

A photograph of two Amanita muscaria mushrooms growing in a forest. The larger mushroom is on the left, with a bright red cap covered in white spots and a thick, pale stem. The smaller one is on the right, also with a red cap and white spots, but with a more slender stem. They are surrounded by green grass, pine needles, and small twigs.

Dictionary of Natural Products

FIRST SUPPLEMENT

Volume 8 of
Dictionary of Natural Products



SPRINGER-SCIENCE+
BUSINESS MEDIA, B.V.

Dictionary
of
Natural
Products

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VOLUME 8 OF DICTIONARY OF NATURAL PRODUCTS



SPRINGER-SCIENCE+BUSINESS MEDIA, B.V.

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The specific information in this publication on the hazardous and toxic properties of certain substances is included to alert the reader to possible dangers associated with the use of those compounds. The absence of such information should not however be taken as an indication of safety in use or misuse.

First Supplement

1. Introduction

For detailed information about how to use the *Dictionary of Natural Products* (DNP) see the Introduction in Volume 1 of the Main Work.

1. Using DNP Supplements

As in the Main Work volumes, every Entry is numbered to assist ready location. The DNP Number consists of a letter of the alphabet followed by a five-digit number. In this First Supplement the first digit is invariably 1. Cross-references within the text to Entries having numbers beginning with zero refer to Main Work Entries.

Where a Supplement Entry contains additional or corrected information referring to an Entry in the Main Work the whole Entry is reprinted, with the accompanying statement "Updated Entry replacing ...". In such cases, the new Entry contains all of the information which appeared in the former Entry,

except for any which has been deliberately deleted. Therefore there is no necessity for the user to consult the Main Work or previous supplements.

2. Literature coverage

In compiling this Supplement the primary literature has been surveyed to the end of 1993. The printed supplement concentrates principally on important new natural products isolated during the period in question. A considerable number of amendments have been made during the review period to entries which have not been reprinted in the Supplement owing to space limitations. All of these can be accessed via the CD-ROM version.

3. Indexes

The indexes in the Supplement consist of Name, Molecular Formula and CAS Registry Number Index.

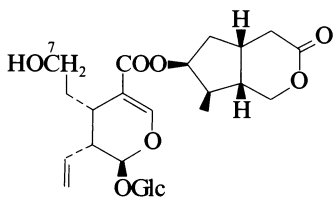
Contents

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A

Abelioside B

Updated Entry replacing A-00009
[99891-73-3]



$C_{25}H_{36}O_{12}$ M 528.552

Constit. of *Abelia grandiflora*.

Penta-Ac: Cryst. (EtOH). Mp 211-213°. $[\alpha]_D^{22}$ -38° (c, 0.5 in $CHCl_3$).

7-Aldehyde: [99891-69-7]. *Abelioside A*. *Laciniatoside II*

$C_{25}H_{34}O_{12}$ M 526.536

From *A. grandiflora* and *Dipsacus laciniatus*. Powder. $[\alpha]_D^{22}$ -38° (c, 1.3 in MeOH), $[\alpha]_D^{25}$ -57° (c, 0.98 in MeOH). *Abelioside* and *Laciniatoside II* assigned identical structs., not compared.

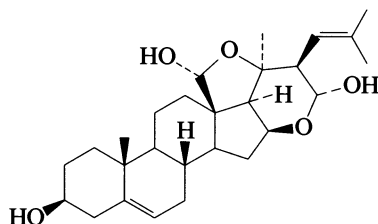
7-Aldehyde, Tetra-Ac: Cryst. (EtOH). Mp 170-172°. $[\alpha]_D^{22}$ -41° (c, 0.5 in $CHCl_3$).

Murai, F. *et al*, *Phytochemistry*, 1985, **24**, 2329.

Kocsis, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1486 (*Laciniatoside II*)

24(23→22)-Abeo-16,23:18,20-diepoxycholesta-5,24-diene-3,18,23-triol

A-10002



$C_{28}H_{42}O_5$ M 458.637

(*3β,16β,18R,20R,22R,23R*)-form

18-Me ether 3-O-[α-L-rhamnopyranosyl-(1→2)-β-D-glucopyranosyl-(1→2)-β-D-glucopyranoside]: [151392-07-3].

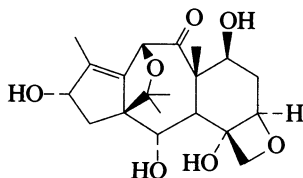
$C_{46}H_{72}O_{19}$ M 929.063

Constit. of *Ornithogalum saundersiae*. Amorph. powder. $[\alpha]_D$ -78° (MeOH).

Kuroda, M. *et al*, *Tetrahedron Lett.*, 1993, **34**, 6073 (*isol, pmr, cmr*)

11(15→1)-Abeo-5,20:10,5-diepoxy-2,4,7,13-tetrahydroxy-11-taxen-9-one

A-10003



$C_{20}H_{28}O_7$ M 380.437

(*2α,4α,5β,7β,10β,13α*)-form

2-Benzoyl, 4-Ac: [150621-50-4].

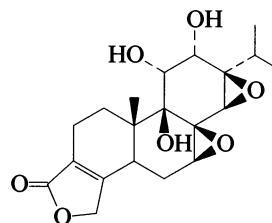
$C_{29}H_{34}O_9$ M 526.582

Constit. of *Taxus wallichiana*. Oil. $[\alpha]_D^{25}$ -26° (c, 1 in CH_2Cl_2).

Appendino, G. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1993, 1563 (*isol, pmr, cmr*)

18(4→3)-Abeo-7,8:13,14-diepoxy-9,11,13-trihydroxy-4-abieten-18,19-olide

A-10004



$C_{20}H_{26}O_7$ M 378.421

(*7β,8β,9β,11α,12α,13β,14β*)-form [147809-20-9] *13,14-Epoxy-9,11,12-trihydroxytriptolide*

Constit. of *Tripterygium wilfordii*. Cryst. (Me_2CO). Mp 268-270°.

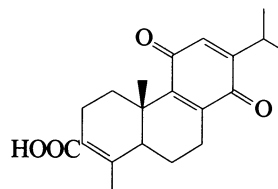
Zhang, C.P. *et al*, *Acta Pharm. Sin.*, 1993, **28**, 110 (*isol, pmr, cmr*)

18(4→3)-Abeo-11,14-dioxo-3,8,12-abietatrien-18-oic acid

A-10005

Tryptoquinone A

[146389-40-4]



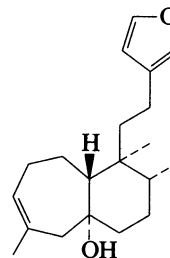
$C_{20}H_{24}O_4$ M 328.407

Constit. of *Tripterygium wilfordii*. Cryst. Mp 179-182°. $[\alpha]_D$ $+296^\circ$ (c, 0.14 in $CHCl_3$).

Takaishi, Y. *et al*, *Tetrahedron Lett.*, 1992, **33**, 7177 (*isol, pmr, cmr, cryst struct*)

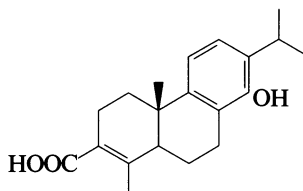
5(4→19)-Abeo-15,16-epoxy-3,13(16),14-clerodatrien-5-ol

A-10006

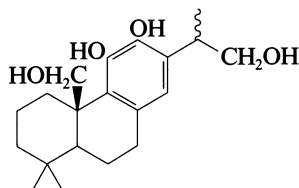


C₂₀H₃₀O₂ M 302.456**(ent-5β)-form**

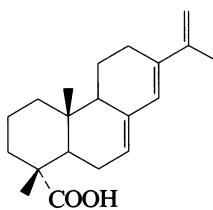
5,10-Dihydro-5α-hydroxy-10βH-printziane

Constit. of *Croton cortesianus*.Kastner, U. et al, *Phytochemistry*, 1992, **31**, 4361 (isol, pmr, cmr)**18(4→3)-Abeo-14-hydroxy-3,8,11,13-abietatetraen-18-oic acid****A-10007**C₂₀H₂₆O₃ M 314.424*Me ether*: 18(4→3)-Abeo-14-methoxy-3,8,11,13-abietatetraen-18-oic acid. **Triptoditerpenic acid B**C₂₁H₂₈O₃ M 328.450Constit. of *Tripterygium hypoglaucum*. Cryst. Mp 209-211°.Zhang, L. et al, *Acta Pharm. Sin.*, 1993, **28**, 32 (isol, pmr, cmr)**8,11,13-Abietatriene-11,12,16,20-tetrol****A-10008**

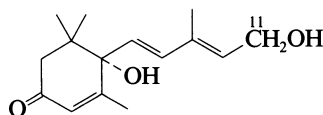
[150065-59-1]

C₂₀H₃₀O₄ M 334.455Constit. of *Salvia mellifera*. Amorph. solid.Luis, J.G. et al, *Phytochemistry*, 1993, **33**, 635 (isol, pmr, cmr)**7,13,15-Abietatrien-18-oic acid****A-10009**

[83905-82-2]

C₂₀H₂₈O₂ M 300.440Constit. of *Pinus massonia*.Cheung, H.T.A. et al, *Tetrahedron*, 1993, **49**, 7903 (isol, pmr, cmr)**Abscisic alcohol****A-10010**

[113472-20-1]

C₁₅H₂₂O₃ M 250.337Constit. of quince (*Cydonia oblonga*) fruit.

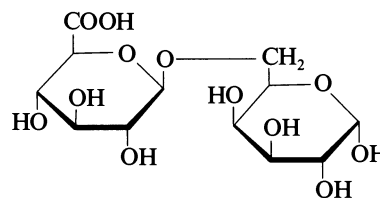
11-O-β-D-Glucopyranoside: [145153-00-0].

C₂₁H₃₂O₈ M 412.479Constit. of quince (*C. oblonga*) fruit.Lutz, A. et al, *J. Agric. Food Chem.*, 1992, **40**, 116 (isol, pmr, cmr)Lutz, A. et al, *Phytochemistry*, 1993, **32**, 57 (isol, pmr, cmr, cd)**Acaciabiuronic acid****A-10011**

Updated Entry replacing A-00104

6-O-β-D-Glucopyranuronosyl-D-galactose, 9CI, 8CI

[7264-19-9]

**α-Pyranose-form**C₁₂H₂₀O₁₂ M 356.283Probably the commonest aldobiuronic acid present as a structural unit in plant gums. Isol. from partial acid hydrolysates from the following plants; black wattle (*Acacia mollissima*), *A. senegal*, *A. pycnantha*, *A. karroo*, *A. cyanophylla*, egg plum (*Prunus domestica*), almond (*P. amygdalus*), peach (*P. persica*), *Anogeissus latifolia* (gum ghatti), *Vigilia oroboides*, *Afraegae pariculata*, *Ferula* and *Chorisia* spp. Also isol. from hydrolysates of maritime pine (*Pinus pinaster*) hemicellulose and wheat straw. Mp 118-119° (hydrate). [α]_D +11.6° → -8.6° (H₂O).*Ca salt*: [α]_D +2° (H₂O).*Ba salt*: [α]_D -3° to +2° (H₂O).*Me ester*:C₁₃H₂₂O₁₂ M 370.310Mp 119°. [α]_D -9° (H₂O).*Hepta-Ac, Me ester*:C₂₇H₃₆O₁₉ M 664.570Mp 202-203°. [α]_D -17.5° (CHCl₃).**α-Pyranose-form** [52554-59-3][α]_D +2° (in H₂O).*1,2:3,4-Di-O-isopropylidene, 2',3',4'-tri-Ac, Me ester*:

[35906-41-3].

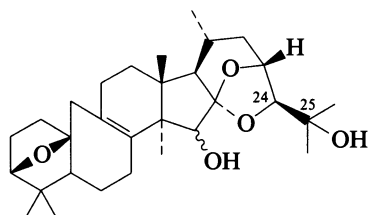
C₂₅H₃₆O₁₅ M 576.550Mp 114-115°. [α]_D -65° (c, 4.5 in CHCl₃).*Me glycoside, hexa Me, Me ester*:C₂₀H₃₆O₁₂ M 468.497[α]_D +42° (CHCl₃).**β-Pyranose-form** [52554-60-6]*Me glycoside, hexa-Me, Me ester*: [22854-45-1].Mp 86-90°. [α]_D -35° (CHCl₃).*Me glycoside, hexa-Ac, Me ester*:C₂₆H₃₆O₁₈ M 636.560Mp 140°. [α]_D -54° (CHCl₃).

[1693-80-7]

Hotchkiss, R.D. et al, *J. Biol. Chem.*, 1936, **115**, 285 (*deriv*)Goebel, W.F. et al, *J. Biol. Chem.*, 1938, **124**, 207 (*isol*)Jackson, J. et al, *J. Chem. Soc.*, 1940, 74 (*α Me gly*)Aspinall, G.O. et al, *J. Chem. Soc.*, 1955, 1160; 1961, 3461 (*isol*)Mukherjee, S. et al, *J. Am. Chem. Soc.*, 1958, **80**, 2536 (*isol*)Jones, J.K.N. et al, *Can. J. Chem.*, 1961, **39**, 162 (*isol*)Bailey, R.W., *Oligosaccharides*, Pergamon Press, London, 1965, **4**, 134 (*occur*)Dee, K.K. et al, *Carbohydr. Res.*, 1967, **4**, 177.Peciar, C. et al, *Chem. Zvesti*, 1974, **28**, 83 (*config, pmr*)DiFabio, J.L. et al, *Carbohydr. Res.*, 1982, **99**, 41 (*isol*)

Acerinol

[19902-53-5]

 $C_{30}H_{46}O_5$ M 486.690Constit. of *Cimicifuga acerina*.

25-Ac: [59665-60-0]. 25-Acetylacerinol

 $C_{32}H_{48}O_6$ M 528.728Constit. of *C. acerina*.

25-Me ether: [59665-58-6]. 25-Methylacerinol

 $C_{31}H_{48}O_5$ M 500.717Constit. of *C. acerina*.

24-Epimer: [151061-95-9]. 24-Epiacerinol

 $C_{30}H_{46}O_5$ M 486.690Constit. of *C. heracleifolia*. Needles. Mp 230-231°. $[\alpha]_D + 59.23^\circ$ (c, 0.27 in $CHCl_3$).Takemoto, T. *et al*, *CA*, 1969, **69**, 30278k (isol)Kusano, G. *et al*, *CA*, 1976, **85**, 5907r (struct)Li, J.X. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 832 (24-Epiacerinol)**A-10012**

Cryst. (pet. ether). Mp 49°.

Et ester: [529-68-0]. $C_{11}H_{12}O_4$ M 208.213

Liq. Bp 289°, Bp 272°.

Propyl ester: [60310-03-4]. $C_{12}H_{14}O_4$ M 222.240Light yellow liq. Bp 289°, Bp₁₀ 162-164°.*Butyl ester*: [52602-16-1]. $C_{13}H_{16}O_4$ M 236.267Liq. Bp₁ 128-130°.*Ph ester*: [134-55-4]. *Acetylsalol. Phennin. Spiroform.**Vesipyryn* $C_{15}H_{12}O_4$ M 256.257Analgesic, antipyretic, and antibacterial agent. Cryst. (EtOH). Mp 97°. Bp₁₁ 197-198°.

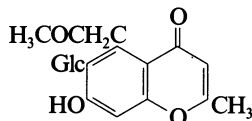
[5749-67-7]

Aldrich Library of Infrared Spectra, 3rd edn., **1**, 315D (ir)Ciusa, R. *et al*, *Chem. Zentralbl.*, 1943, **2**, 615 (synth)Henriques, H.P. *et al*, *Mikrochim. Acta*, 1971, 807 (detn, Mn)Scott, K., *J. Magn. Reson.*, 1972, **6**, 55 (nmr)Ali, S.L., *Pharm. Ztg.*, 1976, **121**, 621 (esters, synth, ir, pmr)Florey, K., *Anal. Profiles Drug Subst.*, 1979, **8**, 1 (rev)Mitscher, L.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1980, **43**, 259 (occur)Barnett, H.J.M. *et al*, *Acetylsalicylic Acid*, Raven Press, N.Y., 1982 (book)*Martindale. The Extra Pharmacopoeia*, 28th/29th Ed.,

Pharmaceutical Press, London, 1982/1989, 2601.

Rainsford, K.D., *Aspirin and the Salicylates*, Butterworths, London, 1984 (book)Collier, H.O.J. *et al*, *Discoveries Pharmacol.*, 1984, **2**, 555 (rev, pharmacol)Hallam, J. *et al*, *Int. Congr. Symp. Ser. R. Soc. Med.*, 1984 (rev)Kim, Y. *et al*, *Chem. Pharm. Bull.*, 1985, **33**, 2641 (cryst struct)Chang, C.J. *et al*, *Magn. Reson. Chem.*, 1986, **24**, 768 (cmr)Pelz, J., *Pharmazie*, 1986, **41**, 733 (history)Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th Ed., Akademie-Verlag, Berlin, 1987, 1120 (synonyms)Bundgaard, H. *et al*, *J. Med. Chem.*, 1989, **32**, 727 (esters, synth, props)Vane, J.R. *et al*, *Aspirin and the Salicylates*, Ed., Chapman and Hall, 1992 (book)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, ADA725.**5-Acetyl-6-glucosyl-7-hydroxy-2-methyl-4H-1-benzopyran-4-one****A-10013**

[84375-47-3]

 $C_{19}H_{22}O_9$ M 394.377Isol. from *Cassia multijuga* and *C. spectabilis*. Cryst. (EtOAc/pet. ether). Mp 190° dec.

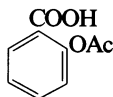
2''-O-β-D-Glucopyranoside: [94443-29-5].

 $C_{25}H_{32}O_{14}$ M 556.519Isol. from the seeds of *C. spectabilis*. Mp 290°.Singh, J., *Phytochemistry*, 1982, **21**, 1177 (isol)Singh, M. *et al*, *Z. Naturforsch., B*, 1984, **39**, 1425 (isol, deriv)**2-Acetoxybenzoic acid****A-10014**

2-Acetyloxybenzoic acid, 9CI. Salicylic acid acetate, 8CI.

Acetylsalicylic acid. Aspirin, USAN

[50-78-2]

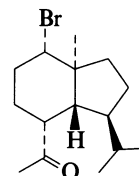
 $C_9H_8O_4$ M 180.160Constit. of *Glycyrrhiza glabra* var. *typica* roots. Produced industrially by acetylation of 2-Hydroxybenzoic acid, H-01254. Analgesic, antipyretic and antiinflammatory agent. Used as soln. in 10% ammonia for photometric detn. of Mn (λ_{max} 385 nm; in the presence of H_2O_2). Cryst. Mp 135° (rapid heat), Fp 118°. pK_a 3.38 (25°, 1.0M KCl). Ca salt used in combination with urea as Carbaspirin calcium, USAN.

▷ Mod. toxic. Exp. teratogen. VO0700000.

Me ester: [580-02-9]. $C_{10}H_{10}O_4$ M 194.187**7-Acetyl-4-bromo-1-isopropyl-3a-methylindane****A-10015**

1-(7-Bromo-7a-methyl-3-(1-methylethyl)octahydro-1H-inden-4-yl)ethanone

[149492-40-0]

 $C_{15}H_{25}BrO$ M 301.266Constit. of *Laurencia marianensis*. Cryst. Mp 49-53°. $[\alpha]_D - 13.0^\circ$ (c, 0.1 in $CHCl_3$).de Nys, R. *et al*, *Aust. J. Chem.*, 1993, **46**, 933 (isol, pmr, cmr)

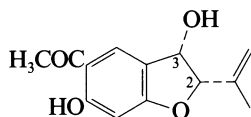
5-Acetyl-2,3-dihydro-3,6-dihydroxy-2-isopropenylbenzofuran

A-10016

Achilleppolide

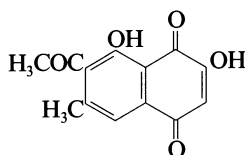
A-10019

1-[2,3-Dihydro-3,6-dihydroxy-2-(1-methylethenyl)-5-benzofuranyl]ethanone, 9CI

C₁₃H₁₄O₄ M 248.235(2*S*,3*S*)-form [143381-65-1]Constit. of *Senecio desfontainei*.Hussein, N.S. *et al*, *Pharmazie*, 1992, **47**, 468 (*isol*)**7-Acetyl-2,8-dihydroxy-6-methyl-1,4-naphthoquinone**

A-10017

[80597-54-2]

C₁₃H₁₀O₅ M 246.219

Yellow solid. Mp 206-209° dec.

2-*Me ether*: [64756-97-4]. 7-Acetyl-8-hydroxy-2-methoxy-6-methyl-1,4-naphthoquinone. **Orientalone**C₁₄H₁₂O₅ M 260.246Constit. of *Prunus cerasoides*, *Rumex nepalensis* and *R. orientalis*. Yellow-orange cryst. (C₆H₆/petrol). Mp 191-192°.8-*Me ether*: [95455-42-8]. 7-Acetyl-2-hydroxy-8-methoxy-6-methyl-1,4-naphthoquinoneC₁₄H₁₂O₅ M 260.246

Yellow solid. Mp 173-177° dec.

Di-*Me ether*: [80597-53-1]. 7-Acetyl-2,8-dimethoxy-6-methyl-1,4-naphthoquinoneC₁₅H₁₄O₅ M 274.273

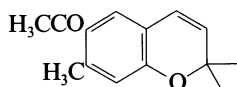
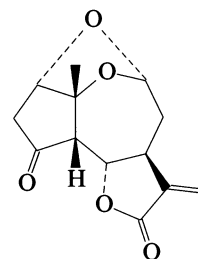
Yellow solid. Mp 182-184°.

Sharma, M. *et al*, *Indian J. Chem., Sect. B*, 1977, **15**, 544; 1978, **16**, 289 (*Orientalone*)Jung, M.E. *et al*, *Tetrahedron*, 1984, **40**, 4751 (*synth*, *pmr*, *cmr*)Garg, M. *et al*, *Proc. Natl. Acad. Sci., India, Sect. A*, 1985, **55**, 95 (*Orientalone*)**6-Acetyl-2,2,7-trimethyl-2H-1-benzopyran A-10018**

1-(2,2,7-Trimethyl-2H-1-benzopyran-6-yl)ethanone, 9CI.

Gleucolin

[76470-14-9]

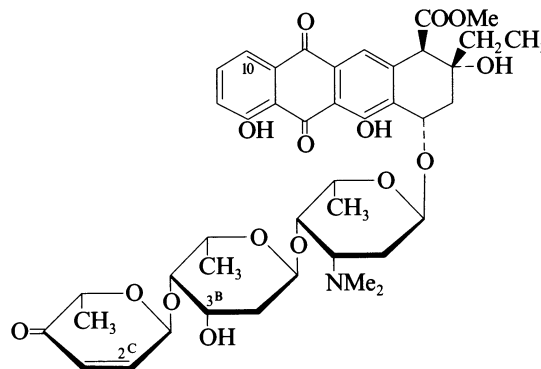
C₁₄H₁₆O₂ M 216.279Constit. of the stems and leaves of *Eupatorium glechonophyllum*.Becerra, J. *et al*, *Rev. Latinoam. Quim.*, 1980, **11**, 148 (*isol*)C₁₃H₁₄O₅ M 250.251Constit. of *Achillea pseudoaleppica*. Oil. [α]_D²⁵ +2° (c, 0.3 in MeOH).Appendino, G. *et al*, *Phytochemistry*, 1993, **34**, 1171 (*isol*, *pmr*, *cmr*)**Aclacinomycin Y**

A-10020

Updated Entry replacing A-00297

MA 144Y. Antibiotic MA 144Y

[66789-14-8]

C₄₂H₅₁NO₁₅ M 809.863Anthracycline antibiotic. *Isol.* from *Streptomyces galilaeus*.Antitumour antibiotic. Mp 153-155°. [α]_D²² +66° (c, 1 in CHCl₃).

▷ QI9279700.

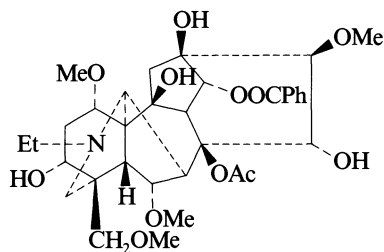
10-Hydroxy: [88477-80-9]. **Pyrraculomycin**. 10-Hydroxyaclacinomycin Y. **Cinerubin Y**†C₄₂H₅₁NO₁₆ M 825.862*Isol.* from *S. sp.* JA 6705. Active against gram-positive bacteria and mycobacteria. Dark red cryst.(C₆H₆/MeOH). Mp 160-167°.10-Hydroxy, 3^B-deoxy: **Cinerubin R**C₄₂H₅₁NO₁₅ M 809.863Prod. by *Streptomyces eurythermus*. Active against gram-positive bacteria. Mp 158-162°.10-Hydroxy, 2^C,3^C-dihydro: **Spartanamicin B**C₄₂H₅₃NO₁₆ M 827.878Prod. by a *Micromonospora sp.* Antifungal agent. Orange-red solid.Yoshimoto, A. *et al*, *J. Antibiot.*, 1979, **32**, 472 (*isol*)Oki, T. *et al*, *J. Antibiot.*, 1979, **32**, 791, 801 (*isol*, *uv*, *ir*, *pmr*, *cmr*)Hoshino, T. *et al*, *J. Antibiot.*, 1983, **36**, 1458 (*synth*)Tresselt, D. *et al*, *Z. Chem.*, 1987, **27**, 444 (*deriv*)Nakata, M. *et al*, *J. Antibiot.*, 1992, **45**, 1599 (*Cinerubin R*)Nair, M.G. *et al*, *J. Antibiot.*, 1992, **45**, 1738 (*Spartanamicin B*)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, ADG425.

Aconifine

Updated Entry replacing A-00302

Nagarine†

[41849-35-8]

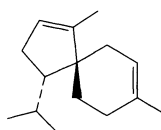
 $C_{34}H_{47}NO_{12}$ M 661.745Alkaloid from tubers of *Aconitum karakolicum* and roots of *A. nazarum* var. *lasiantrum* (Ranunculaceae). Mp 198-200°. $[\alpha]_D^{19} + 30.6^\circ$ (c, 1.10 in $CHCl_3$).

B,HBr: Mp 209°.

Tetra-Ac: Mp 227°.

N-De-Et, N-Me: [76918-93-9]. **Beiwutine** $C_{33}H_{45}NO_{12}$ M 647.718Alkaloid from *A. kusnezoffii* (Ranunculaceae). Mp 196-198°.N-De-Et, N-Me, O³-Ac: **3-O-Acetylbeiwutine** $C_{35}H_{47}NO_{13}$ M 689.755Alkaloid from roots of *A. liaotungense* (Ranunculaceae). Cryst. Mp 187°. $[\alpha]_D + 25.8^\circ$ (c, 0.95 in EtOH).Sultankhodzhaev, M.N. *et al*, *Khim. Prir. Soedin.*, 1973, 9, 127; 1980, 16, 665; *Chem. Nat. Compd. (Engl. Transl.)*, 129, 481 (Aconifine)Wang, Y.-G. *et al*, *Yaoxue Xuebao*, 1980, 15, 526; *CA*, 94, 117772k (Beiwutine)Wang, H. *et al*, *Huaxue Xuebao*, 1981, 39, 869; *CA*, 97, 107080f (Aconifine)Zhu, Y. *et al*, *Heterocycles*, 1982, 17, 607 (struct, rev)Zhu, D.-Y. *et al*, *Phytochemistry*, 1993, 32, 767 (3-O-Acetylbeiwutine)**3,9-Acoradiene**

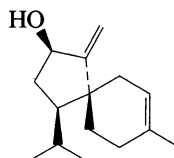
[55781-50-5]

 $C_{15}H_{24}$ M 204.355Constit. of Vetiver oil (*Vetivera zizanioides*). Oil.

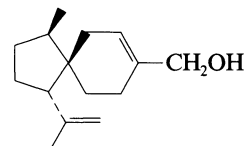
[35944-18-4, 38229-83-3, 59573-57-8]

Demole, E. *et al*, *Helv. Chim. Acta*, 1971, 54, 1845 (synth)Kaiser, R. *et al*, *Tetrahedron Lett.*, 1972, 2009, 2013 (isol, struct)Zalkow, L.H. *et al*, *Tetrahedron Lett.*, 1975, 75 (abs config)Chen, Y.-J. *et al*, *Tetrahedron*, 1993, 49, 10263 (synth)**3,10(14)-Acoradien-9-ol****Rosaacorenol**

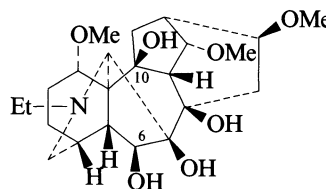
[138867-22-8]

 $C_{15}H_{24}O$ M 220.354**A-10021**Constit. of *Rosa rugosa*. Syrup.Hashidoko, Y. *et al*, *Phytochemistry*, 1991, 30, 3729; 1993, 32, 387 (isol, synth, pmr, cmr)**3,11-Acoradien-15-ol** **β -Acoradienol**

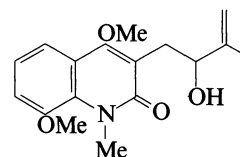
[149496-35-5]

 $C_{15}H_{24}O$ M 220.354Constit. of *Neocallitropsis pancheri*. Oil. $[\alpha]_D^{25} + 3^\circ$ (c, 0.37 in $CHCl_3$).Raharivelomanana, P. *et al*, *Phytochemistry*, 1993, 33, 235 (isol, pmr, cmr)**A-10024****Acoseptrine**

[146028-66-2]

 $C_{23}H_{37}NO_7$ M 439.548Alkaloid from roots of *Aconitum septentrionale* (Ranunculaceae). Cryst. (Me_2CO /hexane). Mp 105-107°. $[\alpha]_D + 19.6^\circ$ (c, 0.245 in $CHCl_3$).10-Deoxy: [144049-71-8]. **Acosepticine** $C_{23}H_{37}NO_6$ M 423.548Alkaloid from roots of *A. septentrionale* (Ranunculaceae). Amorph. solid. $[\alpha]_D + 23.4^\circ$ (c, 0.385 in $CHCl_3$).10-Deoxy, O⁶-Ac: [144074-85-1]. **6-O-Acetylacosepticine** $C_{25}H_{39}NO_7$ M 465.586Alkaloid from roots of *A. septentrionale* (Ranunculaceae). Cryst. (Et_2O). Mp 168.5-170.5°. $[\alpha]_D - 1.2^\circ$ (c, 0.2 in $CHCl_3$).Sayed, H.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, 55, 1595 (isol, ir, pmr, cmr, ms, struct)Ross, S.A. *et al*, *Tetrahedron*, 1992, 48, 1183 (6-O-Acetylacosepticine)**A-10022****Acutifolin**

[145237-07-6]

 $C_{17}H_{21}NO_4$ M 303.357Alkaloid from the leaves of *Zanthoxylum acutifolium* (Rutaceae). Viscous oil. $[\alpha]_D + 40^\circ$ (c, 0.00025 in $CHCl_3$).O-Hexadecanoyl: [145204-98-4]. **Acutifolin palmitate** $C_{33}H_{51}NO_5$ M 541.770Alkaloid from leaves of *Z. acutifolium* (Rutaceae). Viscous oil. $[\alpha]_D + 15^\circ$ (c, 0.00066 in $CHCl_3$).N-De-Me: [145237-08-7]. **Acutifolidin****A-10023****A-10026**

$C_{16}H_{19}NO_4$ M 289.330

Alkaloid from leaves of *Z. acutifolium* (Rutaceae).
Amorph. solid. Mp 121-123°. $[\alpha]_D^{25} + 18.6^\circ$ (c, 0.00053 in $CHCl_3$).

Me ether: [145204-97-3]. **O-Methylacutifolin**

$C_{18}H_{23}NO_4$ M 317.384

Alkaloid from leaves of *Z. acutifolium* (Rutaceae).
Viscous oil. $[\alpha]_D^{25} - 6.4^\circ$ (c, 0.00156 in $CHCl_3$).

Arruda, M.S.P. *et al*, *Phytochemistry*, 1992, **31**, 3617 (*isol, uv, ir, pmr, cmr, ms, struct*)

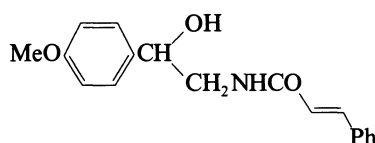
Aegeline

A-10027

Updated Entry replacing A-00488

N-[2-Hydroxy-2-(4-methoxyphenyl)ethyl]-3-phenyl-2-propenamide, 9CI. Egeline, 8CI. N- β -Hydroxy- β -p-methoxyphenethylcinnamamide. N-Cinnamoyl-2-hydroxy-2-(4-methoxyphenyl)ethylamine. Cinnamic acid 2-hydroxy-2-(p-methoxyphenyl)ethylamide

[456-12-2]



$C_{18}H_{19}NO_3$ M 297.353

Originally assigned the formula $C_{18}H_{18}O_4$.

(+) **-form** [15298-36-9]

Synthetic. Cryst. (EtOH). Mp 196-197°. $[\alpha]_D^{25} + 36.0^\circ$ (c, 0.4 in $CHCl_3$), $[\alpha]_D^{21} - 48.1^\circ$ (c, 0.5 in EtOH).

(-) **-form** [15298-37-0]

Synthetic. Cryst. (EtOH). Mp 196-197°. $[\alpha]_D^{25} - 35.1^\circ$ ($CHCl_3$), $[\alpha]_D^{21} + 47.5^\circ$ (c, 0.5 in EtOH).

(\pm) **-form** [37791-13-2]

Alkaloid from the leaves of *Aegle marmelos*, *Zanthoxylum coriaceum* and *Z. ocumarensis* (Rutaceae).
Cryst. (EtOH/EtOAc). Mp 176° (173-175°).

Ac: Plates (EtOAc). Mp 124°.

Dihydro: Plates (EtOH/EtOAc). Mp 140°.

Me ether: [70546-93-9]. N-[2-Methoxy-2-(4-methoxyphenyl)ethyl]cinnamide. Aegle marmelos Alkaloid D

$C_{19}H_{21}NO_3$ M 311.380

Isol. from *A. marmelos*. Cryst. (C_6H_6 /hexane). Mp 135°
Artifact.

Et ether: [70546-94-0]. N-[2-Ethoxy-2-(4-methoxyphenyl)ethyl]cinnamide. Aegle marmelos Alkaloid B

$C_{20}H_{23}NO_3$ M 325.407

Isol. from *A. marmelos*. Cryst. (C_6H_6 /hexane). Mp 99-100°. Artifact.

Chatterjee, A. *et al*, *J. Indian Chem. Soc.*, 1952, **29**, 425 (*isol*)

Chakravarti, R.N. *et al*, *Chem. Ind. (London)*, 1955, 1632 (*struct*)

Chatterjee, A. *et al*, *J. Org. Chem.*, 1959, **24**, 687 (*isol, uv, ir, struct, synth*)

Albónico, S.M. *et al*, *J. Chem. Soc. C*, 1967, 1327 (*synth*)

Della Casa de Marcano, D. *et al*, *Phytochemistry*, 1972, **11**, 1531 (*isol*)

Manandhar, M.D. *et al*, *Phytochemistry*, 1978, **17**, 1814 (*derivs*)

Patra, A. *et al*, *Indian J. Chem., Sect. B*, 1979, **17**, 385 (*isol, uv, ir*)

Swinehart, J. *et al*, *Phytochemistry*, 1980, **19**, 1219 (*isol*)

Patra, A. *et al*, *Org. Magn. Reson.*, 1981, **16**, 65 (*cmr*)

Sharma, B.R. *et al*, *Phytochemistry*, 1981, **20**, 2606 (*isol*)

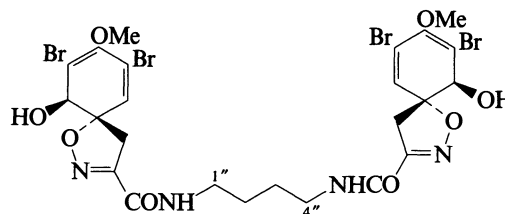
Somanathan, R. *et al*, *Synth. Commun.*, 1983, **13**, 273 (*synth, ir, ms, pmr, cmr*)

Aerothionin

A-10028

Updated Entry replacing A-00501

[28714-26-3]



$C_{24}H_{26}Br_4N_4O_8$ M 818.107

Metab. from the sponges *Aplysina aerophoba* (*Verongia aerophoba*), *A. fistularis* and *A. thiona*. Plates (Me_2CO/C_6H_6). Mp 134-137° dec. $[\alpha]_D^{25} + 252^\circ$ (Me_2CO).

Di-Ac: Needles (Me_2CO). Mp 206-208°. $[\alpha]_D^{25} + 236^\circ$ ($CHCl_3$).

2''-Hydroxy: **11-Hydroxyaerothionin**

$C_{24}H_{26}Br_4N_4O_9$ M 834.107

Metab. from the verongid sponge *Pseudoceratina durissima*. Glass. $[\alpha]_D^{25} + 189^\circ$ (c, 0.15 in MeOH).

2'',3''-Dihydroxy: [122759-72-2]. **Dihydroxyaerothionin**

$C_{24}H_{26}Br_4N_4O_{10}$ M 850.106

Metab. of *Verongula rigida*. Powder. Mp 162-164°. $[\alpha]_D^{25} - 64.2^\circ$ (c, 0.1 in MeOH).

2''-Oxo: **11-Oxo-aerothionin**

$C_{24}H_{24}Br_4N_4O_9$ M 832.091

Metab. from the Caribbean sponge *Aplysina lacunosa*. Exhibits pronounced and selective antitumour activity against human colon (HCT116) cell line. Powder. Mp 174.6-176.6° dec. $[\alpha]_D^{25} + 181.15^\circ$ (c, 2.17 in DMSO).

Homologue: [34232-66-1]. **Homoaerothionin**

$C_{25}H_{28}Br_4N_4O_8$ M 832.134

Constit. of the sponge *A. aerophoba*. Amorph. solid. Has a C_5 bridging chain instead of C_4 .

Homologue, di-Ac: [35036-48-7].

Mp 166-167°. $[\alpha]_D^{25} + 191.5^\circ$ ($CHCl_3$).

Fattorusso, E. *et al*, *J. Chem. Soc., Chem. Commun.*, 1970, 752 (*uv, ir, pmr, struct*)

Fattorusso, E. *et al*, *Gazz. Chim. Ital.*, 1971, **101**, 61

(*Homoaerothionin*)

Moody, K. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1972, 18 (*isol, uv, ir, pmr, struct*)

Forrester, A.R. *et al*, *Justus Liebigs Ann. Chem.*, 1978, 66 (*synth*)

McMillan, J.A. *et al*, *Tetrahedron Lett.*, 1981, **22**, 39 (*cryst struct, uv, pmr, cd, abs config*)

Nishiyama, S. *et al*, *Bull. Chem. Soc. Jpn.*, 1985, **58**, 3453 (*synth*)

Gunasekera, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 753

(*Dihydroxyaerothionin*)

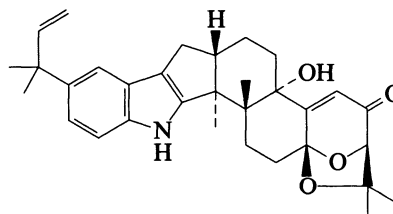
Kernan, M.R. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 615 (*11-Hydroxyaerothionin*)

Acosta, A.L. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1007 (*11-Oxo-aerothionin*)

β -Aflatrem

A-10029

[144446-23-1]



$C_{32}H_{39}NO_4$ M 501.664

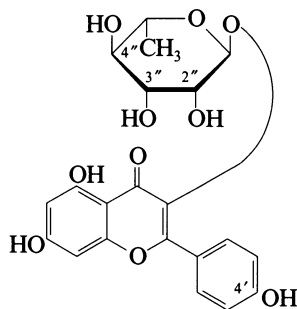
Metab. from the sclerotia of *Aspergillus flavus*. Also present in extracts of *A. parasiticus* and *A. subolivaceus*. Exhibits anti-insect activity. Yellow cryst. Mp 188-190°. $[\alpha]_D^{20} + 77.9^\circ$ (c, 0.011 in CHCl_3).

TePaske, M.R. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1080 (*isol. uv, pmr, cmr, ms, struct*)

Afzelin**A-10030**

Updated Entry replacing A-00540

3-O- α -L-Rhamnopyranosyloxy-4',5,7-trihydroxyflavone.
Kaempferol 3- α -L-rhamnoside. Afzeloside. Kaempferin
[482-39-3]

 $\text{C}_{21}\text{H}_{20}\text{O}_{10}$ M 432.383

Isol. from *Afzelia* sp. heartwood and many other plant spp. Yellow prisms + $1\frac{1}{2}\text{H}_2\text{O}$ (EtOH aq.). Mp 172-174°.

4"-O- β -D-Glucopyranoside: [52657-01-9]. **Multiflorin B**

 $\text{C}_{27}\text{H}_{30}\text{O}_{15}$ M 594.525

Isol. from *Rosa multiflora*, *Prunus persica* and *P. japonica*.

2" or 3"-O-Ac, 4"-O- β -D-glucopyranoside: [61358-52-9].

Multiflorin A $\text{C}_{29}\text{H}_{32}\text{O}_{16}$ M 636.562

Isol. from *R. multiflora* and *P. persica*.

0"- β -D-Xylopyranoside:

 $\text{C}_{26}\text{H}_{28}\text{O}_{14}$ M 564.499

Isol. from *Woodsia polysticoides*.

7-O- α -L-Rhamnopyranoside: [482-38-2]. **Kaempferitrin**.

Kaempferol 3,7-dirhamnoside. **Lepedin** $\text{C}_{27}\text{H}_{30}\text{O}_{14}$ M 578.526

Isol. from *Indigofera arrecta*, *Lespedeza cyrtobotrya* and many other plant spp. Needles + $4\text{H}_2\text{O}$. Mp 202-203° (185-186°).

▷ DJ2977500.

0"-Sulfate: [62794-01-8].

 $\text{C}_{21}\text{H}_{20}\text{O}_{13}\text{S}$ M 512.447

Isol. from *Davidsonia pruriens*.

7-O- α -L-Arabinopyranoside: [71801-95-1].

 $\text{C}_{26}\text{H}_{28}\text{O}_{14}$ M 564.499

Isol. from *Asplenium trichomanes*.

2"-Ac: [135618-15-4]. 2"-O-Acetylfafzelin

 $\text{C}_{23}\text{H}_{22}\text{O}_{11}$ M 474.420

Constit. of *Zingiber zerumbet*. Yellow amorph. solid. $[\alpha]_D^{20} - 93^\circ$ (c, 1 in Me_2CO).

3"-Ac: [135618-16-5]. 3"-O-Acetylfafzelin

 $\text{C}_{23}\text{H}_{22}\text{O}_{11}$ M 474.420

Constit. of *Z. zerumbet*. Yellow powder. Mp 117°. $[\alpha]_D^{20} - 126.0^\circ$ (c, 1 in Me_2CO).

4"-Ac: [135618-17-6]. 4"-O-Acetylfafzelin

 $\text{C}_{23}\text{H}_{22}\text{O}_{11}$ M 474.420

Constit. of *Z. zerumbet*. Yellow powder. Mp 199-201°. $[\alpha]_D^{14} - 119.0^\circ$ (c, 1 in MeOH).

2",4"-Di-Ac: [133882-73-2]. 2",4"-Diacetylfafzelin

 $\text{C}_{25}\text{H}_{24}\text{O}_{12}$ M 516.457

Isol. from *Z. zerumbet*. Pale yellow amorph. solid. Mp 111°. $[\alpha]_D^{18} - 95.0^\circ$ (c, 1.0 in Me_2CO).

3",4"-Di-Ac: [77307-50-7]. 3",4"-Diacetylfafzelin

 $\text{C}_{25}\text{H}_{24}\text{O}_{12}$ M 516.457

Isol. from *Z. zerumbet*. Pale yellow amorph. solid. Mp 154°. $[\alpha]_D^{18} - 125.4^\circ$ (c, 0.7 in Me_2CO).

King, F.E. *et al*, *J. Chem. Soc.*, 1950, 168 (*isol*)

Vermes, B. *et al*, *Phytochemistry*, 1976, **15**, 1320 (*synth*)

Takagi, S. *et al*, *Yakugaku Zasshi*, 1976, **96**, 1217; 1977, **97**, 109; 1979, **99**, 439 (*Multiflorin*)

Wilkins, C.K. *et al*, *Phytochemistry*, 1977, **16**, 144 (*sulfate*)

Yamasaki, K. *et al*, *Tetrahedron Lett.*, 1977, 1231 (*cmr, Multiflorin*)

Hiraoka, A. *et al*, *Biochem. Syst. Ecol.*, 1978, **6**, 171 (*O"-xyloside*)

Imperato, F., *Experientia*, 1979, **35**, 1134 (*7-arabinoside*)

Itokawa, H. *et al*, *Chem. Lett.*, 1982, 49 (*ms*)

Zapesochayna, G.G., *Khim. Prir. Soedin.*, 1982, **18**, 695; *Chem.*

Nat. Compd. (Engl. Transl.), 658 (*pmr*)

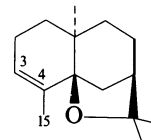
Nakatani, N. *et al*, *Agric. Biol. Chem.*, 1991, **55**, 455 (*diacetates*)

Masuda, T. *et al*, *Phytochemistry*, 1991, **30**, 2391 (*acetates*)

 α -Agarofuran**A-10031**

Updated Entry replacing A-00544

[5956-12-7]

 $\text{C}_{15}\text{H}_{24}\text{O}$ M 220.354

Constit. of Agar wood oil (from fungus infected *Aquilaria agallocha*). Oil. Bp₆ 134°. $[\alpha]_D + 37.1^\circ$ (c, 6.1 in CHCl_3).

3 α ,4 α -Epoxide: [73465-83-5].

 $\text{C}_{15}\text{H}_{24}\text{O}_2$ M 236.353

Constit. of *Alpinia japonica*. Oil. $[\alpha]_D^{25} - 20.8^\circ$ (c, 0.4 in EtOH).

3 β ,4 β -Epoxide: [60064-95-1].

 $\text{C}_{15}\text{H}_{24}\text{O}_2$ M 236.353

Constit. of *A. japonica*. Needles. Mp 90-91°. $[\alpha]_D - 48.2^\circ$ (c, 0.36 in CHCl_3).

3,4 β -Dihydro: [5956-09-2]. **Dihydroagarofuran**

 $\text{C}_{15}\text{H}_{26}\text{O}$ M 222.370

Constit. of *A. japonica* and *Ferula* spp. Oil. Bp_{0.8} 82°. $[\alpha]_D - 79.4^\circ$ (c, 0.75 in CHCl_3).

3,4-Dihydro, 4 α -hydroxy: [15052-76-3]. **4 α -Hydroxydihydroagarofuran**

 $\text{C}_{15}\text{H}_{26}\text{O}_2$ M 238.369

Constit. of *A. japonica*. Needles (hexane). Mp 128-129.5°. $[\alpha]_D - 71.6^\circ$ (c, 0.16 in EtOH).

$\Delta^{4,15}$ -Isomer: [6040-08-0]. **β -Agarofuran**

 $\text{C}_{15}\text{H}_{24}\text{O}$ M 220.354

Constit. of Agar wood oil (*A. agallocha*). Oil. Bp₈ 130°. $[\alpha]_D^{30} - 127.1^\circ$ (c, 8.3 in CHCl_3). n_D^{28} 1.4973.

3,4 β -Dihydro, 10-epimer: **cis-Dihydroagarofuran**

 $\text{C}_{15}\text{H}_{26}\text{O}$ M 222.370

Constit. of a *Prostanthera* sp. Waxy solid. Mp 20-22°. $[\alpha]_D^{25} - 87.6^\circ$ (neat).

[20053-66-1]

Maheshwari, M.L. *et al*, *Tetrahedron*, 1963, **19**, 1077 (*isol*)

Barrett, H.C. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 5665 (*struct*)

Marshall, J.A. *et al*, *J. Org. Chem.*, 1968, **33**, 435 (*synth*)

Huffmann, J.W. *et al*, *J. Org. Chem.*, 1976, **41**, 3705 (*synth*)

Thomas, A.F., *Tetrahedron Lett.*, 1976, 1717 (*isol*)

Büchi, G. *et al*, *J. Org. Chem.*, 1979, **44**, 54 (*synth*)

Itokawa, H. *et al*, *Chem. Pharm. Bull.*, 1980, **28**, 681; 1985, **33**, 1148 (*isol, derivs, cryst struct*)

Huffman, J.W. *et al*, *J. Org. Chem.*, 1982, **47**, 3254 (*synth*)

Southwell, I.A. *et al*, *Phytochemistry*, 1993, **33**, 857 (*cis-Dihydroagarofuran*)

ω -Agatoxin

A-10032

A series of peptides. ω -Agatoxin IA is a 66-aminoacid polypeptide. Isol. from the venom of the funnel-web spider *Agelenopsis aperta*. Calcium channel antagonists.

[121889-77-8, 124758-89-0, 124860-33-9, 124860-34-0, 137094-79-2, 137094-80-5, 137094-81-6, 137094-82-7]

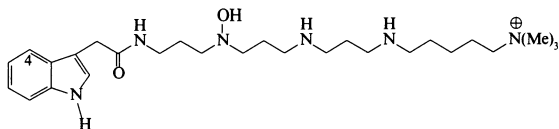
Adams, M.E. *et al*, *J. Biol. Chem.*, 1990, **265**, 861 (*isol*)

α -Agatoxin AG 488

A-10033

Agel 489a

[129724-53-4]



$C_{27}H_{49}N_6O_2$ M 489.723

Struct. revised in 1992. Isol. from the venom of the funnel-web spider *Agelenopsis aperta*.

4-Hydroxy: [129724-54-5]. α -Agatoxin AG 504. *Agel 505a*

$C_{27}H_{49}N_6O_3$ M 505.722

Isol. from the venom of *A. aperta*.

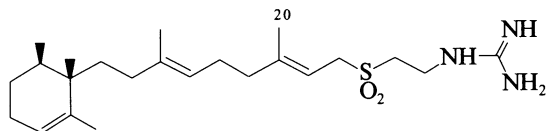
Quistad, G.B. *et al*, *Biochem. Biophys. Res. Commun.*, 1990, **169**, 51 (*isol*)

Jasys, V.J. *et al*, *J. Org. Chem.*, 1992, **57**, 1814 (*isol, synth*)

Agelasidine C

A-10034

Updated Entry replacing A-00556



(+)-form

$C_{23}H_{41}N_3O_2S$ M 423.662

(+)-form [96617-52-6]

Isol. from the Okinawan sea sponge *Agelas nakamurai*. Shows antispasmodic and antibacterial activity.

B, HCl: Syrup. $[\alpha]_D^{25} + 8.5^\circ$ (c, 2.0 in MeOH).

(-)-form

Isol. from *A. clathrodes*. Oil. $[\alpha]_D^{29} - 5.6^\circ$ (c, 7.2 in MeOH).

20-Hydroxy: *Agelasidine D*

$C_{23}H_{41}N_3O_3S$ M 439.661

Isol. from *A. clathrodes*. Oil. $[\alpha]_D^{29} - 3.6^\circ$ (c, 2.75 in MeOH).

[96617-52-6]

Nakamura, H. *et al*, *J. Org. Chem.*, 1985, **50**, 2494 (*isol, uv, ir, pmr, cmr, struct*)

Asao, K. *et al*, *Chem. Lett.*, 1989, 1813 (*synth*)

Morales, J.J. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 389 (*isol*)

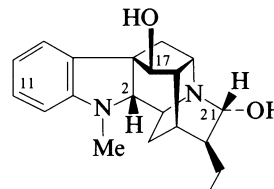
Ajmaline, BAN

A-10035

Updated Entry replacing A-00610

Ajmalan-17,21-diol, 9CI. Raugalline. Rauwolfine. Gilurytmal. Tachmalin

[4360-12-7]



$C_{20}H_{26}N_2O_2$ M 326.438

Alkaloid from *Rauwolfia serpentina* and most *R. spp.*,

Melodinus balansae and *Tonduzia longifolia*

(Apocynaceae). Antiarrhythmic drug which functions by

inhibition of glucose uptake by heart tissue

mitochondria. Mp 158-160° (MeOH solvate), Mp 205-

207° (anhyd.).

▷ AX8050000.

B, HCl: [4410-48-4].

Amber prisms + 2H₂O. Mp 133-134°, Mp 253-255° (anhyd.).

▷ AX8100000.

B, 2HCl: Plates. Mp 305-306° dec.

O¹⁷-Ac: [19918-92-4].

Rods (Et₂O), cryst. (EtOH). Mp 150° (rods), Mp 214-215° (cryst.).

O²¹-Ac: Needles (EtOAc). Mp 190-192°.

Di-Ac: [19775-56-5].

Needles (metastable) or rods. Mp 132°, Mp 187-189° (double Mp).

Picrate: Plates (EtOH). Mp 126-127°, Mp 223° (anhyd.).

B, MeI: Mp 229° dec.

N-Propyl, hydrogen tartrate: [2589-47-1]. *Prajmalium bitartrate, BAN, INN. GT 1012. NPAB*

$C_{27}H_{38}N_2O_8$ M 518.606

Cardiac antiarrhythmic drug. Cryst. (EtOH/Et₂O). Mp 149-152°.

▷ AX7750000.

O¹⁷-Chloroacetyl: [47562-08-3]. *Lorajmine, INN*

$C_{22}H_{27}ClN_2O_3$ M 402.920

Cardiac depressant, antiarrhythmic. Cryst. Mp 232-235°.

$[\alpha]_D + 27.5^\circ$ (CHCl₃).

O¹⁷-Chloroacetyl; *B, HCl*: [40819-93-0]. *Lorajmine*

hydrochloride, USAN. Nevergor. Ritmos. Ritmosel.

Viaductor. Win 11831

Cryst. Mp 230-235°. $[\alpha]_D + 40^\circ$ (CHCl₃).

N-De-Me: [23944-24-3]. *Norajmaline*

$C_{19}H_{24}N_2O_2$ M 312.411

Alkaloid from *R. macrophylla*, *R. obscura* and *R.*

suaveolens (Apocynaceae). Yellow-grey amorph. powder.

$[\alpha]_D + 36^\circ$ (c, 0.67 in CHCl₃).

11-Hydroxy: [73012-74-5]. *Ajmalinol. Ajmalan-11,17-21-triol, 9CI*

$C_{20}H_{26}N_2O_3$ M 342.437

Alkaloid from *R. vomitoria* (Apocynaceae).

2-Epimer: [51019-46-6].

Noncryst. $[\alpha]_D + 55^\circ$ (c, 1 in CHCl₃).

17-Epimer: [509-37-5]. *Sandwicine. Epiajmaline*

$C_{20}H_{26}N_2O_2$ M 326.438

Alkaloid from *R. sandwicensis*, *R. mauiensis* and *R.*

vomitoria (Apocynaceae). Antiarrhythmic agent.

Amorph. (MeOH aq. or Me₂CO/hexane). $[\alpha]_D^{20} + 174^\circ$ (c, 1 in MeOH).

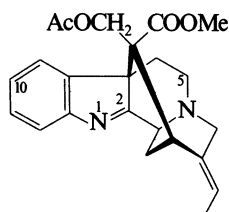
17-Epimer; *B, 2HCl*: Cryst. (Me₂CO). Mp 210-213°. $[\alpha]_D + 129^\circ$ (MeOH).

- 17-*Epimer*; *B,2HI*: Cryst. (Me₂CO). Mp 238-240°. [α]_D²⁰ + 84° (CHCl₃).
- 17-*Epimer*, O¹⁷-*Ac*: Cryst. (MeOH). [α]_D²⁰ + 188.5° (c, 1 in CHCl₃).
- 17-*Epimer*, di-O-*Ac*: Cryst. (pet. ether). Mp 105-108°. [α]_D²⁰ + 104° (c, 1 in CHCl₃).
- 20,21-*Diepimer*: see *Isoajmaline*, I-00272
- 17-O-(3,4,5-*Trimethoxybenzoyl*): [59846-31-0]. **Willicourtine**
C₃₀H₃₆N₂O₆ M 520.624
Alkaloid from *R. obscura* and *R. vomitoria* (Apocynaceae).
- 21-O-(3,4,5-*Trimethoxybenzoyl*): [110941-51-0]. **Ajmalimine**
C₃₀H₃₆N₂O₆ M 520.624
Alkaloid from the roots of *R. serpentina* (Apocynaceae).
Needles (MeOH/EtOAc). Mp 188-189°. [α]_D²⁰ + 105°.
- [31081-68-2, 35080-11-6, 110906-81-5]
- Anet, F.A.L. *et al*, *J. Chem. Soc.*, 1954, 1242 (*isol, uv, struct*)
Woodward, R.B., *Angew. Chem.*, 1956, **68**, 13 (*rev, struct*)
Gorman, M. *et al*, *Tetrahedron*, 1957, **1**, 328 (*Sandwicine*)
Bartlett, M.F. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 622 (*abs config*)
Bonati, A. *et al*, *Farmaco, Ed. Sci.*, 1963, **18**, 851 (*Prajmalium*)
Keck, J., *Z. Naturforsch., B*, 1963, **18**, 177 (*Prajmalium*)
Biemann, K. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 4624 (*ms*)
Masamune, S. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 2506 (*synth*)
Ronchetti, F. *et al*, *Phytochemistry*, 1971, **10**, 1385 (*Sandwicine*)
Koch, M. *et al*, *Arzneim.-Forsch.*, 1972, **22**, 2079, 2085; 1973, **23**, 642 (*Prajmalium*)
Ahmad, V. *et al*, *Pak. J. Sci. Ind. Res.*, 1972, **15**, 249 (*synth*)
Majumdar, S.P. *et al*, *Phytochemistry*, 1973, **12**, 1167 (*Norajmaline*)
Petter, A. *et al*, *Arzneim.-Forsch.*, 1974, **24**, 873, 874, 876 (*rev, pharmacol, props*)
Timmins, P. *et al*, *Phytochemistry*, 1974, **13**, 281 (*Norajmaline*)
Hubert-Brierre, Y. *et al*, *Tetrahedron*, 1975, **31**, 3049 (*synth, epimer*)
Kuhnert-Brandstaetter, M. *et al*, *Arch. Pharm. (Weinheim, Ger.)*, 1976, **309**, 699 (*polymorphs*)
van Tamelen, E.E. *et al*, *Bioorg. Chem.*, 1976, **5**, 309 (*synth*)
Timmins, P. *et al*, *Planta Med.*, 1976, **29**, 283 (*Willicourtine*)
Prewo, R. *et al*, *Acta Crystallogr., Sect. B*, 1978, **34**, 454 (*cryst struct*)
Chatterjee, A. *et al*, *Tetrahedron Lett.*, 1978, 3879 (*cmr*)
Siddiqui, S. *et al*, *J. Chem. Soc. Pak.*, 1979, **1**, 1; *CA*, **92**, 111204p (*Ajmalinol*)
Capra, C. *et al*, *Farmaco, Ed. Prat.*, 1980, **35**, 49 (*Lorajmine*)
Iwu, M.M., *Planta Med.*, Suppl. 1980, 13 (*Willicourtine*)
Martindale, *The Extra Pharmacopoeia*, 28th/29th Ed., Pharmaceutical Press, London, 1982/1989, 7777-78, 7787-88.
Danieli, B. *et al*, *Tetrahedron*, 1984, **40**, 5255 (*cmr*)
Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th Ed., Akademie-Verlag, Berlin, 1987, 5833, 6564, 6995 (*synonyms*)
Siddiqui, S. *et al*, *Planta Med.*, 1987, **53**, 288 (*Ajmalimine*)
Johnston, M.D. *et al*, *J. Heterocycl. Chem.*, 1988, **25**, 1803 (*cmr*)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, AFH250, AFH280, DNB000, PNC875.

Akuammiline**A-10036**

Updated Entry replacing A-00634

Methyl 17-(acetyloxy)akuammilan-16-carboxylate, 10CI
Methyl 16-[(acetyloxy)methyl]akuammilan-17-oate, 9CI
[1897-26-3]

C₂₃H₂₆N₂O₄ M 394.469

Alkaloid from *Picalima nitida*, *Conopharyngia durissima*, *Vinca minor*, *Rauwolfia oreogiton* and *R. vomitoria* (Apocynaceae). Cryst. (Et₂O). Mp 157-161°. [α]_D²⁴ + 83° (c, 0.5 in CHCl₃).

B,HCl: Cryst. + 1H₂O (H₂O or EtOH). Mp 196°. [α]_D²⁰ - 29.6° (c, 3.84 in H₂O).

B,HI: Needles (EtOH aq.). Mp 210°.

B,HNO₃: Prisms (H₂O). Mp 204°.

B,MeI: Needles (H₂O). Mp 233°. [α]_D²⁰ - 83° (c, 1.36 in EtOH).

O-*De-Ac*: [1897-30-9]. **Rhazimol. Deacetylakuammiline. Ercinaminine**

C₂₁H₂₄N₂O₃ M 352.432

Alkaloid from *V. minor*, *P. nitida*, *R. vomitoria*, *R. oreogiton* and *Rhazya stricta* (Apocynaceae). Pale-yellow amorph. powder. [α]_D²¹ + 19.7° (MeOH).

1,2 β -*Dihydro*: [77485-26-8]. **1,2 β -Dihydroakuammiline**

C₂₃H₂₈N₂O₄ M 396.485

Alkaloid from the leaves of *Rauwolfia oreogiton* (Apocynaceae). Off-white amorph. powder. [α]_D²¹ - 9.4° (MeOH).

1,2 β -*Dihydro*, O-*de-Ac*: [77485-27-9]. **Deacetyl-1,2 β -dihydroakuammiline**

C₂₁H₂₆N₂O₃ M 354.448

Alkaloid from the leaves of *R. oreogiton* (Apocynaceae). Mp 228-230°. [α]_D²¹ + 99° (MeOH).

10-*Methoxy*: [38734-62-2]. **Raufloricine**

C₂₄H₂₈N₂O₅ M 424.496

Alkaloid from *V. minor* and from the root bark of *R. confertiflora* (Apocynaceae). Cryst. (Me₂CO/hexane or EtOAc). Mp 190-193°. [α]_D²⁰ + 129° (c, 1.5 in CHCl₃).

10-*Hydroxy*, O-*de-Ac*: [85783-98-8]. **Ercinamine. 10-Hydroxydeacetylakuammiline**

C₂₁H₂₄N₂O₄ M 368.432

Alkaloid from *Catharanthus roseus* and *V. erecta*. Mp 238-240°. [α]_D + 53°.

10-*Methoxy*, O-*de-Ac*: [38734-63-3]. **Nervobscurine. 10-Methoxydeacetylakuammiline**

C₂₂H₂₆N₂O₄ M 382.458

Alkaloid from *V. minor*. Amorph. [α]_D²⁵ + 83° (c, 0.72 in EtOH).

5 β -*Hydroxymethyl*: [77485-24-6]. **5 β -Hydroxymethylakuammiline**

C₂₄H₂₈N₂O₅ M 424.496

Alkaloid from the leaves of *R. oreogiton* (Apocynaceae). Off-white amorph. powder. [α]_D²¹ - 141° (MeOH).

Henry, T.A., *J. Chem. Soc.*, 1932, 2759 (*isol*)

Dugan, J.J. *et al*, *Helv. Chim. Acta*, 1969, **52**, 701 (*isol, uv, ir, pmr, ms*)

Savařkan, S. *et al*, *Helv. Chim. Acta*, 1972, **55**, 2861 (*Akuammiline, Raufloricine, Nervobscurine*)

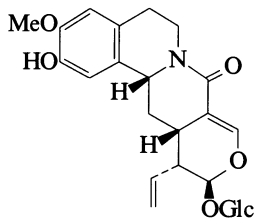
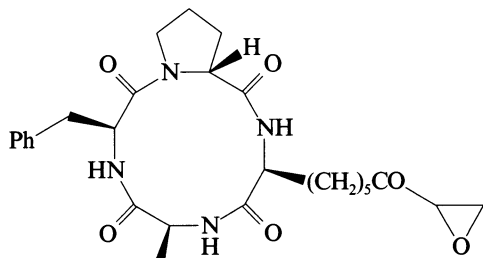
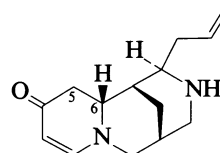
de Maindreville, M.D. *et al*, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1975, **280**, 131 (*config*)

Akinloye, B.A. *et al*, *Phytochemistry*, 1980, **19**, 2741

(*Dihydroakuammiline, Rhazimol, Deacetyldihydroakuammiline*)

Gueritte, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1983, **46**, 144 (*Ercinamine*)

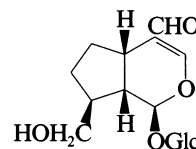
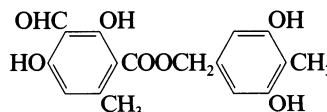
Yagudaev, M.R. *et al*, *Khim. Prir. Soedin.*, 1983, **19**, 483; *Chem. Nat. Compd. (Engl. Transl.)*, 454 (*Ercinamine, Ercinaminine*)

Alangiside**A-10037**Updated Entry replacing A-00650
[34482-51-4] $C_{25}H_{31}NO_{10}$ M 505.521Alkaloid from the roots, leaves and fruit of *Alangium lamarckii* (best source unripe fruit) (Alangiaceae).
Amorph. powder + 2.5 H₂O. Mp 187° dec. (shrinks at 164°). $[\alpha]_D^{26} -105^\circ$ (c, 1.0 in MeOH).**Tetra-Ac:** Amorph. powder. $[\alpha]_D^{21} -50.4^\circ$ (c, 1.81 in CHCl₃).**Me ether:** Needles + 1.5 H₂O (EtOAc). Mp 236°.**O-De-Me:** [47763-23-5]. **Demethylalangiside** $C_{24}H_{29}NO_{10}$ M 491.494Alkaloid from the roots of *Cephaelis ipecacuanha* (Rubiaceae) and leaves of *Alangium platanifolium* var. *trilobum* (Alangiaceae). Needles (MeOH aq.). Mp 180-182°. $[\alpha]_D^{24} -73^\circ$ (c, 0.2 in MeOH).**O-De-Me, 6'-(4-hydroxy-3-methoxycinnamoyl): 6'-O-Feruloyldemethylalangiside** $C_{34}H_{37}NO_{13}$ M 667.665Alkaloid from leaves of *A. platanifolium* var. *trilobum* (Alangiaceae). Powder. Isol. as a mixt. of *cis*- and *trans*-forms.**O-De-Me, 6'-(4-hydroxy-3,5-dimethoxycinnamoyl): 6'-Sinapoyldemethylalangiside** $C_{35}H_{39}NO_{14}$ M 697.691Alkaloid from leaves of *A. platanifolium* var. *trilobum* (Alangiaceae). Powder. Isol. as mixt. of *cis*- and *trans*-isomers.Kapil, R.S. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 904 (*ir*, *pmr*, *struct*, *abs config*)Shoeb, A. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1975, 1245 (*isol*, *uv*, *ir*, *pmr*, *ms*, *struct*)Nagakura, N. *et al*, *J. Chem. Soc., Chem. Commun.*, 1978, 896 (*cmr*)Höfle, G. *et al*, *Chem. Ber.*, 1980, 113, 566 (*synth*, *uv*, *ir*, *pmr*, *cmr*, *ms*)Itoh, A. *et al*, *Phytochemistry*, 1991, 30, 3117; 1992, 31, 1037 (*Demethylalangiside*, *6'-O-Feruloyldemethylalangiside*, *6'-O-Sinapoyldemethylalangiside*)**1-Alaninechlamydocin****A-10038***Cyclo(L-alanyl-D-phenylalanyl-D-prolyl-η-oxo-L-α-aminooxiraneoctanoyl)*, 9CI
[141446-96-0] $C_{27}H_{36}N_4O_6$ M 512.605Cyclic peptide antibiotic. Metab. of *Diheterospora chlamydosporia*. Antitumour agent. Alanine analog. of Chlamydocin, C-00930.Kim, S.D. *et al*, *CA*, 1992, 116, 231433 (*isol*)**Albine****A-10039**Updated Entry replacing A-00676
Dehydroalbine
[53915-26-7]

Absolute configuration

 $C_{14}H_{20}N_2O$ M 232.325Alkaloid from *Lupinus albus* and *L. termis* seeds (Leguminosae). Mp 50°. $[\alpha]_D^{25} -103^\circ$. The *N*-Methyl deriv. was formerly reported erroneously (see Alkaloid LC2, A-10048).**B,HClO₄:** Mp 253°. $[\alpha]_D^{25} -76^\circ$ (H₂O).**N-Formyl: N-Formylalbine** $C_{15}H_{20}N_2O_2$ M 260.335Trace alkaloid in seeds and leaves of *L. albens* (Leguminosae). Provisional identification.**5,6-Didehydro: Δ⁵-Dehydroalbine** $C_{14}H_{18}N_2O$ M 230.309Alkaloid from seeds of *L. termis* (Leguminosae). Oil. $[\alpha]_D^{25} -44.6^\circ$ (c, 0.02 in MeOH).Wiewiórowski, M. *et al*, *Bull. Acad. Pol. Sci., Ser. Sci. Chim.*, 1964, 12, 213, 217 (*isol*, *ir*)Chekhlov, A.N. *et al*, *J. Struct. Chem. (Engl. Transl.)*, 1974, 15, 848 (*cryst struct*)Wolinska-Mocydlarz, J. *et al*, *Bull. Acad. Pol. Sci., Ser. Sci. Chim.*, 1976, 24, 613 (*ir*, *struct*)Mohamed, M.H. *et al*, *Phytochemistry*, 1991, 30, 3111 (Δ^5 -*Dehydroalbine*)Planchuelo-Ravelo, A.M. *et al*, *Z. Naturforsch., C*, 1993, 48, 414 (*N-Formylalbine*)**Aldoxoside****A-10040**

[142905-20-2]

 $C_{16}H_{24}O_9$ M 360.360Constit. of *Cordylanthus tenuis* and *C. kingii*. Gum. $[\alpha]_D -47^\circ$ (c, 0.07 in MeOH).Justice, M.R. *et al*, *Phytochemistry*, 1992, 31, 2021.**Alectorialin****A-10041***Decarboxyalectorialic acid*
[55483-02-8] $C_{17}H_{16}O_7$ M 332.309

Constit. of lichen *Alectoria nigricans*. Needles (Me₂CO/cyclohexane). Mp 200-201° dec.
Solberg, Y., *Acta Chem. Scand., Ser. B*, 1975, **29**, 145 (isol)
Elix, J.A. et al, *Aust. J. Chem.*, 1987, **40**, 1841 (synth, pmr)

Alfalfone A-10042

C₂₁H₄₂O M 310.562
Ketone of unknown struct. Constit. of the meal of *Medicago sativa*. Powder. Mp 88.5-88.8°.
Jacobson, C.A., *J. Am. Chem. Soc.*, 1912, **34**, 300 (isol)

Crotalaria retusa Alkaloid A-10043

Struct. unknown. Isol. from *Crotalaria retusa*. Cryst. (Me₂CO). Mp 130-132°.
Culvenor, C.C.J. et al, *Aust. J. Chem.*, 1957, **10**, 464 (isol)

Thermopsis lanceolata Alkaloid A A-10044

[78040-76-3]
Struct. unknown. Constit. of *Thermopsis lanceolata*.
Chao, K.-S. et al, *CA*, 1981, **95**, 35461q (isol, props)

Sophora griffithii Alkaloid B A-10045

Struct. unknown. Constit. of *Sophora griffithii*.
Primukhamedov, I. et al, *Rastit. Resur.*, 1969, **5**, 572; *CA*, **72**, 118549.

Thermopsis lanceolata Alkaloid B A-10046

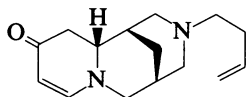
[78040-77-4]
Struct. unknown. Constit. of *Thermopsis lanceolata*.
Chao, K.-S. et al, *CA*, 1981, **95**, 35461q (isol, props)

Burkea africana Alkaloid E A-10047

Struct. unknown. It may be Harmalan N₆ oxide (see 3,4-Dihydro-1-methyl-β-carboline, D-01331). Isol. from stem bark of *Burkea africana*.
Ferreira, M.A., *Garcia de Orta, Ser. Farmacogn.*, 1973, **2**, 23; *CA*, **81**, 166304z (isol)

Alkaloid LC2 A-10048

Updated Entry replacing A-00973
3-(3-Butenyl)-1,2,3,4,5,6,11,11a-octahydro-1,5-methano-10H-pyrido[1,2-a][1,5]diazocin-10-one, 9CI. 1,13-Didehydro-10,11-secomultiflorine. 11,12-Seco-12-dehydromultiflorine. N-Methylalbine (incorr.)
[71635-26-2]



C₁₅H₂₂N₂O M 246.352
Struct. revised in 1988. Some isolates were prev. reported erroneously as N-methylalbine (see Albine, A-10039).
Alkaloid from the leaves and seeds of *Lupinus cosentinii*, *L. albus* and *L. formosus* (Leguminosae). Cryst. (cyclohexane). Mp 60°. [α]_D²⁵ – 520° (c, 1.0 in MeOH).
[6822-63-5, 97906-66-6]

Beck, A.B. et al, *J. Nat. Prod. (Lloydia)*, 1979, **42**, 385 (isol, uv, ir, pmr, ms, struct)
Wysocka, W. et al, *Planta Med.*, 1988, **54**, 522 (cmr, ms, struct)
Brukwicki, T. et al, *J. Mol. Struct.*, 1989, **196**, 343 (cmr, conform, bibl)
Wyrzykiewicz, E. et al, *Org. Mass Spectrom.*, 1990, **25**, 453 (ms)

Baptisia Alkaloid P₂ A-10049

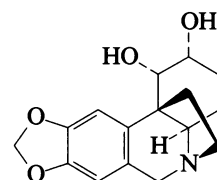
C₁₁H₁₈N₂O M 194.276
Struct. unknown. Isol. from *Baptisia australis* and *B. perfoliata*. Cryst. (MeOH/Et₂O). Mp 300°.
B, HClO₄: Needles (MeOH). Mp 198°.
Marion, L. et al, *J. Am. Chem. Soc.*, 1948, **70**, 691, 3253 (isol)
Oung-Buran, *Planta Med.*, 1969, **17**, 301 (isol)

Baptisia Alkaloid P₄ A-10050

Struct. unknown. Isol. from *Baptisia minor*. Oil. Bp_{0.05} 175-200°.
B, HClO₄: Needles. Mp 286°.
Marion, L. et al, *J. Am. Chem. Soc.*, 1948, **70**, 3472 (isol)

Amabiline† A-10051

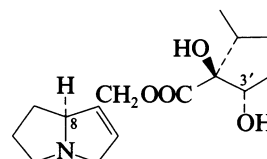
Crinan-1,2-diol, 9CI
[151204-56-7]



C₁₆H₁₉NO₄ M 289.330
Alkaloid from bulbs of *Crinum amabile* (Amaryllidaceae).
Mp 210° dec. [α]_D²⁰ – 32° (c, 0.3 in EtOH).
Likhitwitayawuid, K. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1331 (isol, uv, ir, pmr, cmr, ms, struct)

Amabiline† A-10052

Updated Entry replacing A-01159
[17958-43-9]



C₁₅H₂₅NO₄ M 283.367
Ester of (–)-supinine with (–)-viridifloric acid. Alkaloid from *Cynoglossum amabile* dried whole plants and from whole plants of *Neatostema apulum* (Boraginaceae).
Noncryst. [α]_D²⁰ – 7.1° (c, 2.02 in EtOH). Cryst. derivs. could not be obt.

N-Oxide: Amabiline N-oxide

C₁₅H₂₅NO₅ M 299.366
Alkaloid from whole plants of *N. apulum* (Boraginaceae). [α]_D – 12° (c, 1.4 in EtOH).

8-Epimer: [17958-39-3]. Cynaustine

C₁₅H₂₅NO₄ M 283.367
Minor alkaloid from *Cynoglossum australe* dried plants (Boraginaceae). Pale-yellow gum. [α]_D²⁰ + 13.2° (c, 1.59 in EtOH). Ester of (+)-supinine with (–)-viridifloric acid.
▶ EK7792000.

8-Epimer, picrate: Yellow plates (EtOH). Mp 135-136°.

3'-Epimer: [551-58-6]. Supinine. Base F

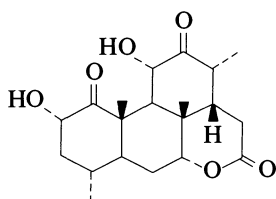
C₁₅H₂₅NO₄ M 283.367
Alkaloid from *Heliotropium supinum* and *H. europaeum* (Boraginaceae). Shows tumour-inhibiting props. Needles (Me₂CO). Mp 148-149° (146-147.5°). [α]_D – 23.8° (EtOH), [α]_D – 12.1° (c, 1.98 in EtOH). Ester of (–)-Supinine with Trachelanthic acid.

▷ Hepatotoxin. WU2050000.

- Men'shikov, G.P. *et al*, *J. Gen. Chem. USSR (Engl. Transl.)*, 1949, **19**, 1382; *CA*, **44**, 3486 (*isol, Supinine*)
 Culvenor, C.C.J. *et al*, *Aust. J. Chem.*, 1954, **7**, 287; 1967, **20**, 2499 (*isol, struct, Supinine, Amabiline, Cynaustine*)
 Culvenor, C.C.J. *et al*, *Chem. Ind. (London)*, 1959, 20 (*synth, Supinine*)
 Mattocks, A.R., *Nature (London)*, 1968, **217**, 723 (*tox, Supinine*)
 Šimánek, V. *et al*, *Collect. Czech. Chem. Commun.*, 1969, **34**, 1832 (*uv, Supinine*)
 Culvenor, C.C.J. *et al*, *J. Chem. Soc. C*, 1971, 3653 (*cd*)
 Mackay, M.F. *et al*, *Acta Crystallogr., Sect. C*, 1985, **41**, 722 (*cryst struct, Supinine*)
 Roeder, E. *et al*, *Phytochemistry*, 1992, **31**, 3613 (*oxide*)
 Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, SOW500.

Amarolide**A-10053**

Updated Entry replacing A-01165
 [29913-86-8]



$C_{20}H_{28}O_6$ M 364.438

Constit. of *Ailanthus glandulosa* and *A. altissima*. Cryst. Mp 253-255°.

2-O- β -D-Glucopyranoside: [93789-26-5]. *Shinjuglycoside D*

$C_{26}H_{38}O_{11}$ M 526.580

Constit. of *A. altissima*. Needles (MeOH). Mp 282-284° dec. $[\alpha]_D^{20} -42^\circ$ (c, 1 in MeOH).

2-O- β -D-Glucopyranoside, 11-Ac: [93789-25-4].

Shinjuglycoside C

$C_{28}H_{40}O_{12}$ M 568.617

Constit. of *A. altissima*. Amorph. solid. Mp 180-185° dec. $[\alpha]_D^{23} -37^\circ$ (c, 6.1 in MeOH).

Casinovi, C.G. *et al*, *Tetrahedron Lett.*, 1965, 2273 (*isol, ir, pmr*)

Stöcklin, W. *et al*, *Tetrahedron Lett.*, 1970, 2399.

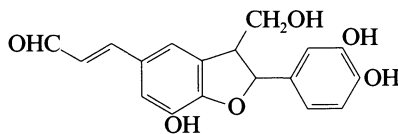
Yoshimura, S. *et al*, *Bull. Chem. Soc. Jpn.*, 1984, **57**, 2496

(*Shinjuglycosides*)

Hirota, H. *et al*, *J. Org. Chem.*, 1991, **56**, 1119 (*synth*)

Americanin D**A-10054**

[77053-45-3]



$C_{18}H_{16}O_6$ M 328.321

Constit. of *Phytolacca americana*. Cryst. Mp 197-200°.

[106622-79-1]

Woo, W.S. *et al*, *Tetrahedron Lett.*, 1980, **21**, 4255 (*isol, pmr, cmr*)

2-Aminoacetophenone, 8CI**A-10055**

2-Amino-1-phenylethanone, 9CI. Phenacylamine.

Phenomydrol. Benzoylmethylamine

[613-89-8]



C_8H_9NO M 135.165

▷ AM5775000.

B,HCl: [5468-37-1].

Needles (Me₂CO/EtOH). Mp 188°.

N-Formyl: [73286-37-0].

$C_9H_9NO_2$ M 163.176

Cryst. (Me₂CO/hexane). Mp 80-82°.

N-Ac: [1846-33-9].

$C_{10}H_{11}NO_2$ M 177.202

Mp 85°.

Oxime:

$C_8H_{10}N_2O$ M 150.180

Mp 140°.

2,4-Dinitrophenylhydrazone: Mp 221°.

Di-Et ketal:

$C_{12}H_{19}NO_2$ M 209.288

Liq. Bp_{0.5} 68°.

N-Me: [35534-19-1]. α -Methylaminoacetophenone

$C_9H_{11}NO$ M 149.192

Yellow oil.

N-Me, B,HCl: [23826-47-3].

Plates. Mp 219° dec.

N-Me, N-Ac:

$C_{11}H_{13}NO_2$ M 191.229

Mp 156°.

N,N-Di-Me: [3319-03-7]. 2-(*N,N*-Dimethylamino)

acetophenone

$C_{10}H_{13}NO$ M 163.219

Isol. from *Desmodium gangeticum*. Liq. Bp₂₀ 130-132°.

Tiffeneau, M. *et al*, *Bull. Soc. Chim. Fr.*, 1931, **49**, 1761 (*rev*)

Stalham, F.S., *J. Chem. Soc.*, 1951, 213 (*synth*)

Chapman, N.B. *et al*, *J. Chem. Soc.*, 1963, 1385 (*synth, deriv*)

Tanaka, H. *et al*, *CA*, 1971, **75**, 147849 (*struct*)

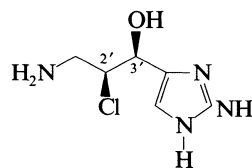
Ghosal, S. *et al*, *Planta Med.*, 1972, **22**, 434 (*isol, deriv*)

Bellamy, L.J. *et al*, *Spectrochim. Acta, Part A*, 1972, **28**, 1869 (*ir*)

Muchowski, J.M. *et al*, *J. Org. Chem.*, 1986, **51**, 3374 (*N-formyl*)

Abdalla, G.M. *et al*, *J. Heterocycl. Chem.*, 1987, **24**, 297 (*synth, ir, pmr*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, AHR250.

2-Amino- α -(2-amino-1-chloroethyl)-1H-imidazole-4-methanol, 9CI**A-10056**

$C_6H_{11}ClN_4O$ M 190.632

(2'*RS*,3'*SR*)-form

erythro-form

B,2HCl: [127909-96-0].

Mp 191-193°.

(2'*RS*,3'*RS*)-form [110883-46-0]

threo-form. *Giracodazole*, INN. *Girolline*

Isol. from the sponge *Pseudaxinyssa cantharella*.

Antineoplastic agent.

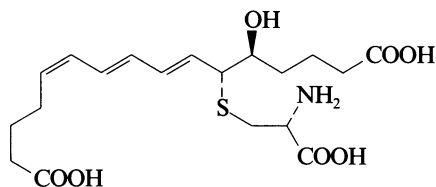
[117678-06-5]

Ahond, A. *et al*, *C. R. Hebd. Seances Acad. Sci. Ser. 2*, 1988, **307**, 145 (*isol*)

Bedoya Zurita, M. *et al*, *Tetrahedron*, 1989, **45**, 6713 (*synth, pmr*)

11-[(2-Amino-2-carboxyethyl)thio]-12-hydroxy-5,7,9-hexadecatrienedioic acid **A-10057**

16-Carboxy-17,18,19,20-tetranor-14,15-dihydroleukotriene E_4
[122069-63-0]



$C_{19}H_{29}NO_7S$ M 415.507

Found in the bile and urine of primates. β -Oxidation prod. of Leukotriene E_4 , L-00504. Uv λ_{max} 279 nm (MeOH).

N-Ac: [114115-52-5].

$C_{21}H_{31}NO_8S$ M 457.544

Present in rat bile. β -Oxidation prod. of Leukotriene E_4 , L-00504. Uv λ_{max} 279 nm (MeOH).

Delorme, D. *et al*, *Prostaglandins*, 1988, **36**, 291 (*synth, biosynth*)

Keppler, D. *et al*, *Adv. Enzyme Regul.*, 1989, **28**, 307 (*biosynth*)

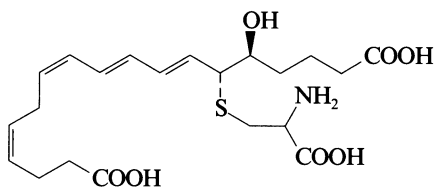
Delorme, D. *et al*, *J. Org. Chem.*, 1989, **54**, 3635 (*synth, uv, pmr*)

Perrin, P. *et al*, *Prostaglandins*, 1989, **37**, 53 (*synth, biosynth*)

Jedlitschky, G. *et al*, *J. Biol. Chem.*, 1991, **266**, 24763 (*biosynth*)

13-[(2-Amino-2-carboxyethyl)thio]-14-hydroxy-4,7,9,11-octadecatetraenedioic acid **A-10058**

5-Hydroxy-6-cystein-S-yl-7,9,11,14-octadecatetraenedioic acid. 18-Carboxydinorleukotriene E_4
[122069-58-3]



$C_{21}H_{31}NO_7S$ M 441.544

LTE $_4$ and LTC $_4$ metab. Uv λ_{max} 280 nm (MeOH).

N-Ac: [114115-51-4].

$C_{23}H_{33}NO_8S$ M 483.582

LTE $_4$ and LTC $_4$ metab. Uv λ_{max} 280 nm (MeOH).

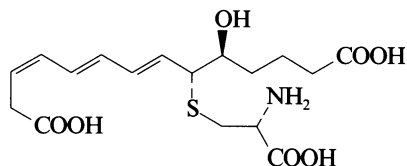
Delorme, D. *et al*, *Prostaglandins*, 1988, **36**, 291; 1989, **37**, 629 (*synth*)

Delorme, D. *et al*, *J. Org. Chem.*, 1989, **54**, 3635 (*synth, uv, pmr*)

Huber, M. *et al*, *Eur. J. Biochem.*, 1990, **194**, 309 (*biochem*)

9-[(2-Amino-2-carboxyethyl)thio]-10-hydroxy-3,5,7-tetradecatrienedioic acid **A-10059**

14-Carboxyhexanorleukotriene E_3



$C_{17}H_{25}NO_7S$ M 387.453

Urinary metab. of Leukotriene E_4 , L-00504 in humans.

.14N-Ac: [114115-54-7].

$C_{19}H_{27}NO_8S$ M 429.490

Metab. of Leukotriene E_4 , L-00504.

[137625-92-4]

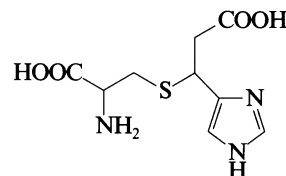
Stene, D.O. *et al*, *J. Biol. Chem.*, 1988, **263**, 2773 (*biosynth*)

Sala, A. *et al*, *J. Biol. Chem.*, 1990, **265**, 21771 (*biosynth*)

Jedlitschky, G. *et al*, *J. Biol. Chem.*, 1991, **266**, 24763 (*biosynth*)

 β -[(2-Amino-2-carboxyethyl)thio]-1H-imidazole-4-propanoic acid **A-10060**

S-[2-Carboxy-1-(1H-imidazol-4-yl)ethyl]cysteine
[134381-43-4]



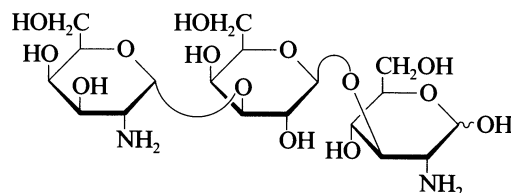
$C_9H_{13}N_3O_4S$ M 259.285

Constit. of human urine.

Kinuta, M. *et al*, *Amino Acids, Pept., Proteins*, 1991, **1**, 259.

2-Amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 3)-2-amino-2-deoxy-D-glucose **A-10061**

3 2 - α -Galactosaminyl-3- β -galactosylglucosamine



Pyranose-form

$C_{18}H_{34}N_2O_{14}$ M 502.472

N,N'-Di-Ac: 2-Acetamido-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 3)-2-acetamido-2-deoxy-D-glucose. 3 2 - α -N-Acetylgalactosaminyl-3- β -galactosyl-N-acetylglucosamine

$C_{22}H_{38}N_2O_{16}$ M 586.546

Isol. from the partial acid hydrolysates of human ovarian cyst blood-group A substance and human blood-group A substance. $[\alpha]_D^{20} +136^\circ$ (H $_2$ O) (+110 $^\circ$).

[5536-47-0, 85304-86-5]

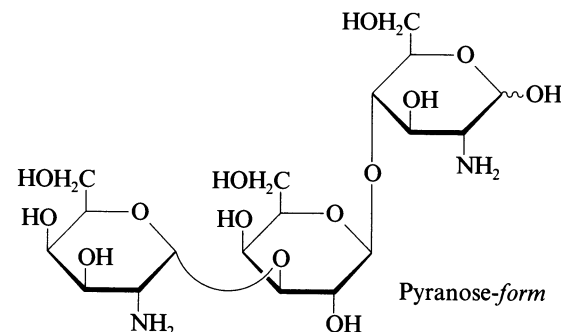
Lister-Cheese, I.A.F. *et al*, *Nature (London)*, 1961, **191**, 149 (*isol*)

Schiffman, G. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 73 (*isol*)

Bovin, N.Y. *et al*, *Bioorg. Khim.*, **7**, 1271; *CA*, 1981, **95**, 204316d (*synth*)

2-Amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy-D-glucose **A-10062**

3 2 - β -Galactosaminyl-4-galactosylglucosamine



Pyranose-form

$C_{18}H_{34}N_2O_{14}$ M 502.472

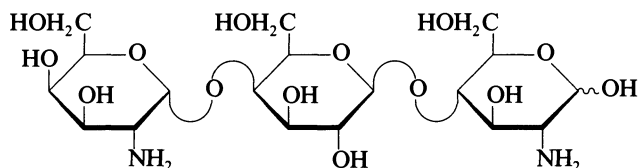
N,N' -Di-Ac: [62897-09-0]. 2-Acetamido-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 4)-2-acetamido-2-deoxy-D-glucose. 3²- β -N-Acetylgalactosaminyl-4- β -galactosyl-N-acetylglucosamine

 $C_{22}H_{38}N_2O_{16}$ M 586.546

Isol. from the partial acid hydrolysate of human blood group A substance. $[\alpha]_D + 147^\circ$ (H₂O).

Lister-Cheese, I.A.F. *et al*, *Nature (London)*, 1961, **191**, 149 (*isol*)
Donald, A.S.R., *J. Chromatogr.*, 1977, **134**, 199 (*chromatog*)

2-Amino-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)- β -D-galactopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy-D-glucose **A-10063**



Pyranose-form

 $C_{18}H_{34}N_2O_{14}$ M 502.472

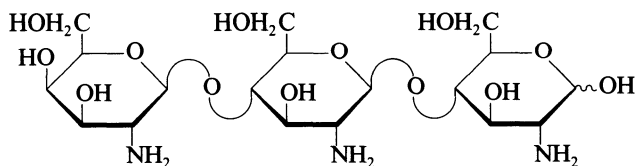
N,N' -Di-Ac: 2-Acetamido-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 4)- β -D-galactopyranosyl-(1 \rightarrow 4)-2-acetamido-2-deoxy-D-glucose. 4²- α -D-Acetylgalactosaminyl-4- β -galactosyl-N-acetylglucosamine. Gastro-N-trisaccharide

 $C_{22}H_{38}N_2O_{16}$ M 586.546

Isol. from the partial acetolysate of hog gastric mucin. Mp 273-275°. $[\alpha]_D + 140^\circ$ (H₂O).

Masamune, H. *et al*, *Tohoku J. Exp. Med.*, 1956, **64**, 257; 1958, **69**, 65 (*isol*)

2-Amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-amino-2-deoxy-D-glucose **A-10064**

4²- β -Glucosaminyl-4- β -glucosaminylglucosamine

Pyranose-form

 $C_{18}H_{35}N_3O_{13}$ M 501.487

N,N',N'' -Tri-Ac: [38864-21-0]. 2-Acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-acetamido-2-deoxy-D-glucose. 4²- β -N-Acetylglucosaminyl-4- β -N-acetylglucosaminyl-N-acetylglucosamine

 $C_{24}H_{41}N_3O_{16}$ M 627.598

The simplest member of the N-acetylchitodextrins obtained as intermediates in the degradation of chitin by endochitinases. Mp 309-311°. $[\alpha]_D + 2.5^\circ$ (H₂O).

Pyranose-form

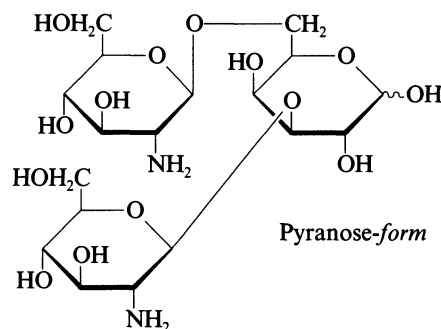
Octa-Ac:

 $C_{34}H_{51}N_3O_{21}$ M 837.784Mp 304-305°. $[\alpha]_D + 30^\circ$ (CHCl₃).

[2624-24-0]

Berger, L.R. *et al*, *Biochim. Biophys. Acta*, 1958, **29**, 522 (*isol*)Dierickx, L. *et al*, *Biochim. Biophys. Acta*, 1962, **58**, 7 (*isol*)Boyd, J. *et al*, *Carbohydr. Res.*, 1985, **139**, 35 (*pmr, cmr*)

2-Amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)-[2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 6)]-D-galactose **A-10065**

6'- β -Glucosaminylacto-N-biose II. 3,6-Diglucoaminylgalactose

Pyranose-form

 $C_{18}H_{34}N_2O_{14}$ M 502.472

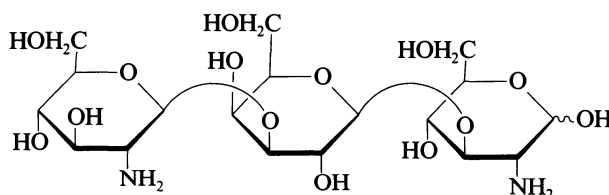
N,N' -Di-Ac: [55612-66-3]. 2-Acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)-[2-acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 6)]-D-glucose. 6'- β -N-Acetylglucosaminylacto-N-biose II

 $C_{22}H_{38}N_2O_{16}$ M 586.546

Isol. from the partial acid hydrolysate of the hydrazinyolysate of blood group A mucopolysaccharide from hog gastric mucin. $[\alpha]_D + 6.5^\circ$ (H₂O).

Yosizawa, Z., *J. Biochem. (Tokyo)*, 1962, **51**, 145.Blanken, W.M. *et al*, *Anal. Biochem.*, 1985, **145**, 322 (*hplc*)Seppo, A. *et al*, *Biochem. Cell. Biol.*, 1990, **68**, 44 (*synth*)

2-Amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 3)-2-amino-2-deoxy-D-glucose **A-10066**

3²- β -N-Glucosaminylacto-N-biose I

Pyranose-form

 $C_{18}H_{34}N_2O_{14}$ M 502.472

N,N' -Di-Ac: 2-Acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 3)-2-acetamido-2-deoxy-D-glucose. 3²- β -N-Acetylglucosaminylacto-N-biose I

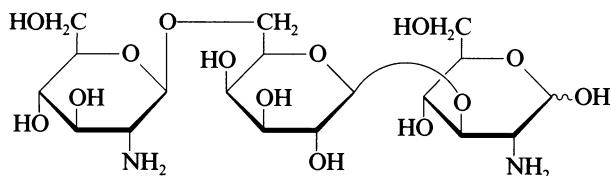
 $C_{22}H_{38}N_2O_{16}$ M 586.546

Isol. from the partial hydrolysate of hog gastric mucin. $[\alpha]_D + 19.5^\circ$ (H₂O).

Okuyama, T., *CA*, 1961, **55**, 88817; 1962, **57**, 1880 (*isol*)

2-Amino-2-deoxy-β-D-glucopyranosyl-(1→6)-β-D-galactopyranosyl-(1→3)-2-amino-2-deoxy-D-glucose

A-10067

6²-N-Glucosaminylacto-N-biose I

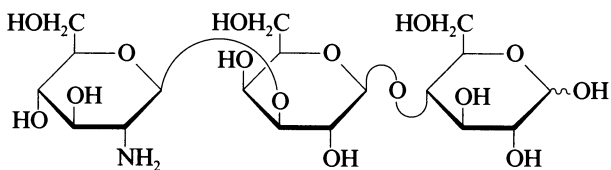
Pyranose-form

 $C_{18}H_{34}N_2O_{14}$ M 502.472N,N'-Di-Ac: 2-Acetamido-2-deoxy-β-D-glucopyranosyl-(1→6)-β-D-galactopyranosyl-(1→3)-2-acetamido-2-deoxy-D-glucose. 6²-β-N-Acetylglucosaminylacto-N-biose I $C_{22}H_{38}N_2O_{16}$ M 586.546

Isol. from the partial hydrolysate of hog gastric mucin.

[α]_D + 51.6° (H₂O).Okuyama, T., *CA*, 1961, **55**, 18817; 1962, **57**, 8880 (*isol*)**2-Amino-2-deoxy-β-D-glucopyranosyl-(1→3)-β-D-galactopyranosyl-(1→4)-D-glucose**

A-10068

3²-Glucosaminylactose

Pyranose-form

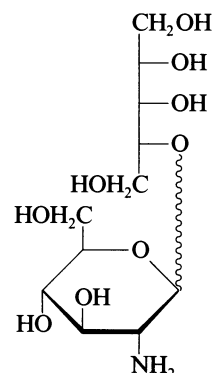
 $C_{18}H_{33}NO_{15}$ M 503.456N-Ac: [75645-27-1]. 2-Acetamido-2-deoxy-β-D-glucopyranosyl-(1→3)-β-D-galactopyranosyl-(1→4)-D-glucose. 3²-β-N-Acetylglucosaminylactose. Lacto-N-triose II $C_{20}H_{35}NO_{16}$ M 545.494Isol. from the partial acid hydrolysates of the tetra and higher saccharides obt. from human milk; does not itself occur free in milk. Mp 201-202°. [α]_D + 40.7° (in H₂O).

N-Ac, phenylosazone: Mp 230°.

[24741-60-4]

Kuhn, R. *et al*, *Chem. Ber.*, 1958, **91**, 364; 1960, **93**, 647; 1962, **95**, 513, 518 (*isol*)Okuyama, T., *CA*, 1961, **55**, 18817; 1962, **57**, 8880 (*isol*)Acher, A.J. *et al*, *J. Org. Chem.*, 1970, **35**, 2436 (*synth*)Koenderman, A.H.L. *et al*, *Biomed. Chromatogr.*, 1986, **1**, 104; *CA*, **106**, 191579k (*synth*)**4-O-(2-Amino-2-deoxy-D-glucopyranosyl)-D-ribitol**

A-10069

 $C_{11}H_{23}NO_9$ M 313.304

N-Ac: 4-N-Acetylglucosaminylribitol

 $C_{13}H_{25}NO_{10}$ M 355.341The phosphate of this disaccharide is the repeating unit of *Staphylococcus aureus* teichoic acid from which it is obt. by mild alkaline hydrolysis followed by dephosphorylation. On isol. the disaccharide is a mixt. of 1→4 linked α and β isomers, the proportions varying from sample to sample of teichoic acid. [α]_D + 12° (H₂O).Baddiley, J. *et al*, *Biochim. Biophys. Acta*, 1961, **52**, 406 (*isol*)**2-Amino-3-hydroxy-2-(hydroxymethyl)propanoic acid**

A-10070

2-(Hydroxymethyl)serine, 9CI. 2,2-Bis(hydroxymethyl)glycine

[17149-11-0]

 $(HOCH_2)_2C(NH_2)COOH$ $C_4H_9NO_4$ M 135.119Constit. of *Trichosanthes kirilowii* and *Vicia pseudo-orobus*.

Cryst. (EtOH aq.). Mp 242-243°.

Christensen, H.N., *Biochem. Prep.*, 1958, **6**, 49 (*synth*)O'Connor, M.J. *et al*, *Aust. J. Chem.*, 1977, **30**, 683 (*synth*)Jin, X. *et al*, *Huaxue Xuebao*, 1985, **43**, 5; *CA*, **102**, 123485 (*cryst struct*)Saito, K. *et al*, *Phytochemistry*, 1985, **24**, 853 (*isol*)Guo, R. *et al*, *Huaxue Xuebao*, 1987, **45**, 1180; *CA*, **108**, 147161 (*isol*)**4-Amino-4-methyl-2-pentanone, 9CI**

A-10071

Diacetonamine. 2-Aminoisobutyl methyl ketone

[625-04-7]

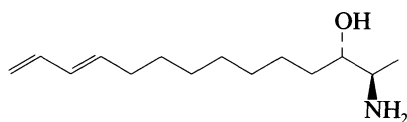
 $(H_3C)_2C(NH_2)CH_2COCH_3$ $C_6H_{13}NO$ M 115.175Isol. from *Genista hystrix*, *G. hystrix* ssp. *hystrix* and *G. hystrix* ssp. *legionensis*. Mod. sol. H₂O. Bp 178-181°, Bp_{0.2} 25°. Prob. an artifact.

Oxime: [69151-99-1].

 $C_6H_{14}N_2O$ M 130.189Needles. Mp 58°. Bp₁₄ 130°.Haeseler, P.R., *J. Am. Chem. Soc.*, 1925, **47**, 1195 (*synth*)*Org. Synth., Coll. Vol.*, 1, 1932, 191 (*synth*)Smith, M.E. *et al*, *J. Am. Chem. Soc.*, 1938, **60**, 408 (*synth*)*U.S. Pat.*, 2 497 548, (1950); *CA*, **44**, 4494 (*synth*)Steinberger, E. *et al*, *Pharm. Acta Helv.*, 1976, **51**, 172, 203 (*isol*)

2-Amino-11,13-tetradecadien-3-ol

A-10072



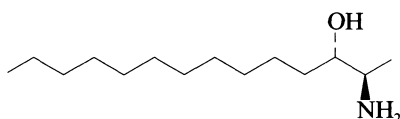
Relative configuration

 $C_{14}H_{27}NO$ M 225.373**(2R*,3S*,11E)-form** [129825-27-0] *Xestoaminol B*Isol. from the marine sponge *Xestospongia* sp. Oil. $[\alpha]_D + 6.0^\circ$ (c, 0.06 in MeOH).**13,14-Dihydro:** [129825-26-9]. **2-Amino-11-tetradecen-3-ol. Xestoaminol A**Isol. from *X.* sp. Oil. $[\alpha]_D + 7.7^\circ$ (c, 0.26 in MeOH).**Tetrahydro:** see *2-Amino-3-tetradecanol*, A-10073Jimenez, C. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 978 (*isol*)

2-Amino-3-tetradecanol

A-10073

[72530-18-8]

**(2R*,3S*)-form** $C_{14}H_{31}NO$ M 229.405**(2R*,3S*)-form** [129825-28-1] *Xestoaminol C*Isol. from the marine sponge *Xestospongia* sp. Oil. $[\alpha]_D + 7.0^\circ$ (c, 0.14 in MeOH).**(2ξ,3ξ)-(±)-form**

Cryst. (MeOH). Mp 99-101°.

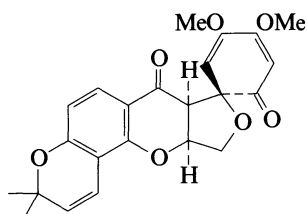
Turel, R.J. *et al*, *Indian J. Chem., Sect. B*, 1979, **18**, 219 (*synth*)
Jimenez, C. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 978 (*isol*)

Amorphispironone

A-10074

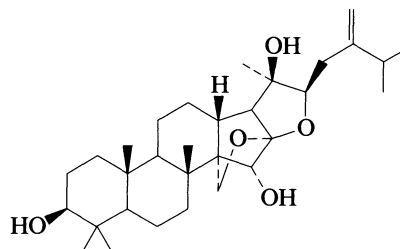
10',10'-Dihydro-4,5-dimethoxy-3',3'-dimethylspiro[3,5-cyclohexadiene-1,8'-[3H,8H]furo[3,4-e']benzo[1,2-b:3,4-b']dipyrans]-2,7'(7aH)-dione, 9C1

[139006-28-3]

 $C_{23}H_{22}O_7$ M 410.423Constit. of the leaves of *Amorpha fruticosa*. Cytotoxic.Cryst. (MeOH aq.). Mp 152-152.5°. $[\alpha]_D - 61.6^\circ$ (c, 0.162 in MeOH).Li, L. *et al*, *J. Chem. Soc., Chem. Commun.*, 1991, 1652 (*isol, struct*)

Ampelozigenin

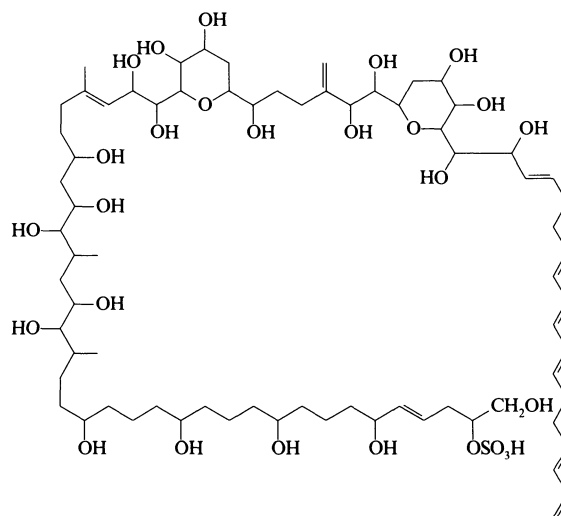
A-10075

 $C_{31}H_{50}O_5$ M 502.733Sapogenin from *Ampelozizyphus amazonicus*. Needles. Mp 268-270°. $[\alpha]_D - 25.0^\circ$ (c, 1 in Py).**3-O-[α-L-Rhamnopyranosyl-(1→2)-β-D-glucopyranoside], 15-Ac:** $C_{45}H_{72}O_{15}$ M 853.055Constit. of *A. amazonicus*. Amorph. powder. Mp 204-208°. $[\alpha]_D - 35.0^\circ$ (c, 1 in EtOH).Brandao, M.G.L. *et al*, *Phytochemistry*, 1993, **34**, 1123 (*isol, pmr, cmr*)

Amphidinol

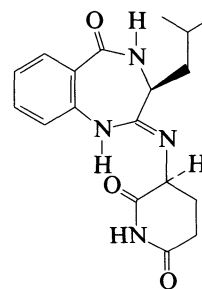
A-10076

[132930-70-2]

 $C_{73}H_{126}O_{27}S$ M 1467.848Constit. of the dinoflagellate *Amphidinium klebsii*.Antifungal agent. Pale yellow solid (as Na salt). $[\alpha]_D^{23} - 25^\circ$ (c, 0.18 in MeOH).Satake, M. *et al*, *J. Am. Chem. Soc.*, 1991, **113**, 9859 (*isol, struct*)

Anacine

A-10077

 $C_{18}H_{22}N_4O_3$ M 342.397

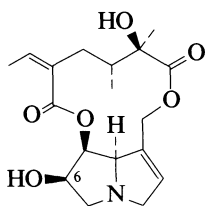
Metab. of *Penicillium aurantiogriseum* produced in submerged fermentation. Amorph. solid.

Boyes-Korkis, J.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1707 (isol, uv, ir, pmr, cmr, ms, struct)

Anacrotine**A-10078**

Updated Entry replacing A-01642

6,12-Dihydroxysenecionan-11,16-dione, 9CI. Crotalaburnine [5096-49-1]



Absolute configuration

$C_{18}H_{25}NO_6$ M 351.399

Cyclic diester of Crotanecine, C-02032 with senecic acid.

Alkaloid from *Crotalaria laburnifolia* (Leguminosae). Mp 191-192°. $[\alpha]_D^{20} + 30^\circ$ (EtOH).

▷ Hepato- and pneumotoxin. VT5707000.

O⁶-Ac: **Acetylanacrotine**

$C_{20}H_{27}NO_7$ M 393.436

Alkaloid from *C. agatiflora* (Leguminosae). Mp 106-107°. $[\alpha]_D^{20} + 74^\circ$ (c, 0.4 in EtOH).

6-Epimer: [98264-41-6]. **Uspallatine**

Alkaloid from the roots of *Senecio uspallatensis* (Compositae). Cryst. (MeOH/CHCl₃). Mp 205-207°. $[\alpha]_D^{20} + 4.11^\circ$ (c, 0.0764 in MeOH).

(E)-Isomer: **trans-Anacrotine**

$C_{18}H_{25}NO_6$ M 351.399

Minor alkaloid from seeds of *C. capensis* (Leguminosae). $[\alpha]_D^{22} + 11^\circ$ (c, 1.7 in CHCl₃).

(E)-Isomer, O⁶-Ac: **Acetyl-trans-anacrotine**

$C_{20}H_{27}NO_7$ M 393.436

Alkaloid from *C. agatiflora* (Leguminosae). Prisms (EtOH). Mp 96-97°. $[\alpha]_D^{20} + 65^\circ$ (c, 1.37 in EtOH).

(E)-Isomer, O⁶-angeloyl, N-oxide: **Angeloyl-trans-anacrotine N-oxide. Base C**

$C_{23}H_{31}NO_8$ M 449.500

Alkaloid from *C. agatiflora* (Leguminosae). Mp 175-176°.

Atal, C.K. *et al*, *Tetrahedron Lett.*, 1966, 537 (isol, struct, pmr)

Culvenor, C.C.J. *et al*, *An. Quim.*, 1972, **68**, 883 (derivs)

Crout, D.H.G., *J. Chem. Soc., Perkin Trans. 1*, 1972, 1602 (isol)

Culvenor, C.C.J. *et al*, *Chem. Biol. Interact.*, 1976, **12**, 299 (tox)

Jones, A.J. *et al*, *Aust. J. Chem.*, 1982, **35**, 1173 (cmr)

Mackay, M.F. *et al*, *Acta Crystallogr., Sect. C*, 1984, **40**, 1073 (cryst struct)

Pestchanker, M.J. *et al*, *Phytochemistry*, 1985, **24**, 1622 (Uspallatine)

Verdoorn, G.H. *et al*, *Phytochemistry*, 1992, **31**, 369 (trans-Anacrotine)

Anacycline**A-10079**

Updated Entry replacing A-01643

N-(2-Methylpropyl)-2,4-tetradecadiene-8,10-dynamide, 9CI. 2,4-Tetradecadiene-8,10-diyinoic acid isobutylamide [502-57-8]



$C_{18}H_{25}NO$ M 271.402

(E,E)-form [94413-18-0]

Alkaloid from the roots of *Anacyclus pyrethrum* (Compositae) and *Achillea* spp. Cryst. (Et₂O/pet. ether). Mp 122°.

Maleic anhydride adduct: Cryst. (Et₂O/pet. ether). Mp 196°.

N-Me: [38340-83-9]. N-Methyl-N-(2-methylpropyl)-2,4-tetradecadiene-8,10-dynamide. N-Methylanacycline $C_{19}H_{27}NO$ M 285.428

Constit. of the roots of *Anacyclus pyrethrum* (Compositae). Oil. λ_{max} 251 nm.

Tetrahydro: Waxy needles. Mp 40°.

12,13-Didehydro: [29428-83-9]. N-Isobutyl-2,4,12-tetradecatriene-8,10-dynamide. Dehydroanacycline. 12,13-Didehydroanacycline

$C_{18}H_{23}NO$ M 269.386

Alkaloid from *A. fuscata* and *Achillea* spp. (Compositae). Cryst. (pet. ether). Mp 150.5°.

(E,Z)-form [37064-16-7]

Synthetic. Cryst. (Et₂O/pet. ether). Mp 85.5°.

[94481-83-1, 112711-13-4]

Crombie, L. *et al*, *J. Chem. Soc.*, 1955, 999 (isol, uv, ir, struct)

Bohlmann, F. *et al*, *Chem. Ber.*, 1956, **89**, 1276; 1970, **103**, 2856;

1974, **107**, 2120 (synth, biosynth, uv, ir, Didehydroanacycline)

Crombie, L. *et al*, *Chem. Ind. (London)*, 1956, 409 (synth, uv)

Crombie, L. *et al*, *J. Chem. Soc.*, 1957, 2767 (synth)

Jente, R. *et al*, *Chem. Ber.*, 1972, **105**, 1694 (isol, synth, ir, pmr, uv)

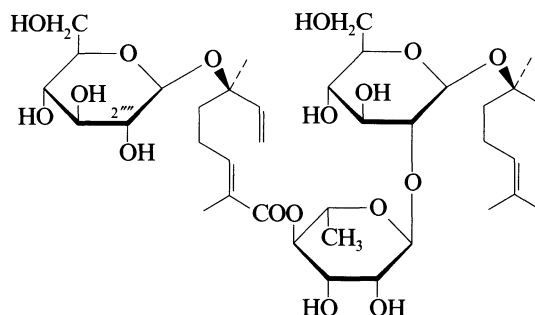
Kuropka, G. *et al*, *Planta Med.*, 1987, **53**, 440 (isol)

Crombie, L. *et al*, *Tetrahedron Lett.*, 1987, **28**, 4875 (synth)

Greger, H. *et al*, *Phytochemistry*, 1989, **28**, 2363 (isol)

Anatolioside B**A-10080**

[147612-77-9]



$C_{38}H_{62}O_{17}$ M 790.898

Constit. of *Viburnum orientale*. Amorph. powder. $[\alpha]_D^{20} - 50.3^\circ$ (c, 0.39 in MeOH).

3^{'''}-Ketone: [147612-78-0]. **Anatolioside C**

$C_{38}H_{60}O_{17}$ M 788.882

Constit. of *V. orientale*. Amorph. powder. $[\alpha]_D^{20} - 49.4^\circ$ (c, 0.37 in MeOH).

2^{'''}-(6-Hydroxy-2,6-dimethyl-2,7-octadienoyl):

[147612-79-1]. **Anatolioside D**

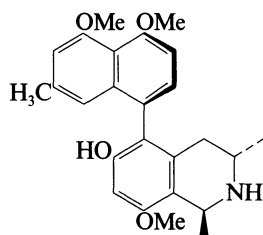
$C_{48}H_{76}O_{19}$ M 957.117

Constit. of *V. orientale*. Amorph. powder. $[\alpha]_D^{20} - 45^\circ$ (c, 0.4 in MeOH).

Çaliş, İ. *et al*, *Helv. Chim. Acta*, 1993, **76**, 416 (isol, pmr, cmr)

Ancistrobreve B

[146471-74-1]

 $C_{25}H_{29}NO_4$ M 407.508

Alkaloid from *Ancistrocladus abbreviatus* (Ancistrocladaceae). Amorph. powder (MeOH/Me₂CO). Mp 122-124°. $[\alpha]_D^{25}$ -68° (c, 0.81 in CHCl₃).

Bringmann, G. et al, *Phytochemistry*, 1992, **31**, 4011 (isol, ir, cd, pmr, ms, struct)

A-10081

O,N-Di-Me: Prisms (Et₂O). Mp 183-185°. $[\alpha]_D^{25}$ -21° (c, 2.55 in CHCl₃). Same plane struct. as Ancistrocladonine, A-10084.

O,N-Dibenzoyl: Cubes (MeOH). Mp 228-230°.

N-Ac: Cryst. (Et₂O). Mp 277-279°.

N-Formyl: Needles (Me₂CO). Mp 232-234°. $[\alpha]_D^{25}$ -126.8° (c, 1.57 in CHCl₃).

1,2-Didehydro: [36209-87-7]. **Ancistrocladinine**

$C_{25}H_{27}NO_4$ M 405.493

Minor alkaloid from the roots of *A. heyneanus* (Ancistrocladaceae). Mp 235-238° dec. $[\alpha]_D^{25}$ -321.8° (c, 1.06 in Py).

1,2,3,4-Tetrahydro: [58738-34-4]. **Ancistrocladeine**

$C_{25}H_{25}NO_4$ M 403.477

Alkaloid from roots of *A. ealaensis* and *A. tectorius* (Ancistrocladaceae). Cryst. (Me₂CO). Mp 275-277°.

N-Me, 1-epimer: **Anistrocline**. N-Methyl-1-epi-ancistrocladine

$C_{26}H_{31}NO_4$ M 421.535

Alkaloid from *A. tectorius* (Ancistrocladaceae). Mp 223-224°. $[\alpha]_D^{25}$ +59.1° (c, 0.23 in CHCl₃).

Me ether, 1 and/or 3 epimers: [54382-93-3].

Ancistroealaensine. 5-(4,5-Dimethoxy-2-methyl-1-naphthalenyl)-1,2,3,4-tetrahydro-6,8-dimethoxy-1,3-dimethylisoquinoline, 9CI

$C_{26}H_{31}NO_4$ M 421.535

Alkaloid from the roots of *Ancistrocladus ealaensis* (Ancistrocladaceae). Mp 84° (softens). $[\alpha]_D^{20}$ -26° (c, 1 in MeOH). Config. unknown.

Me ether; 1 and/or 3 epimers; B,HClO₄: Cryst. (MeOH). Mp 132-135°. $[\alpha]_D^{20}$ -84° (c, 1 in MeOH). Config. unknown.

Me ether; 1 and/or 3 epimers; B,MeI: Mp 170-172°. $[\alpha]_D^{20}$ -85° (c, 1 in MeOH). Config. unknown.

Me ether; 1 and/or 3 epimers; N-Ac: Mp 102-104°. $[\alpha]_D^{20}$ -34° (c, 1 in MeOH).

Me ether; 1 and/or 3 epimers; N-formyl: $[\alpha]_D^{20}$ -18° (c, 1 in MeOH). Config. unknown.

Me ether; 1 and/or 3 epimers; N-Me: Mp 115-117°. $[\alpha]_D^{20}$ -20° (c, 1 in MeOH). Config. unknown. Same plane struct. as Ancistrocladonine, A-10084.

Govindachari, T.R. et al, *Indian J. Chem.*, 1971, **9**, 931, 1421 (uw, pmr, struct, Ancistrocladine, Ancistrocladinine)

Govindachari, T.R. et al, *Tetrahedron*, 1971, **27**, 1013 (isol, uw, ir, pmr, struct)

Govindachari, T.R. et al, *J. Chem. Soc., Perkin Trans. 1*, 1974, 1413 (config, cryst struct, pmr)

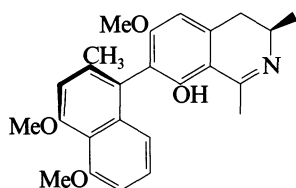
Foucher, J.P. et al, *Phytochemistry*, 1974, **13**, 1253 (Ancistroealaensine)

Foucher, J.P. et al, *Phytochemistry*, 1975, **14**, 2699 (isol, uw, pmr, ms, Ancistrocladeine)

Bringmann, G. et al, *Angew. Chem., Int. Ed. Engl.*, 1982, **21**, 200; 1986, **25**, 913 (synth, biosynth)

Bringmann, G. et al, *Heterocycles*, 1989, **28**, 137 (synth)

Bringmann, G. et al, *Phytochemistry*, 1992, **31**, 3297 (Ancistrocline)

Ancistrobreve C**A-10082** $C_{25}H_{27}NO_4$ M 405.493

Alkaloid from stem bark and roots of *Ancistrocladus abbreviatus* (Ancistrocladaceae). Amorph. yellow solid. Mp 180-183°. $[\alpha]_D^{25}$ +13° (c, 0.69 in CHCl₃).

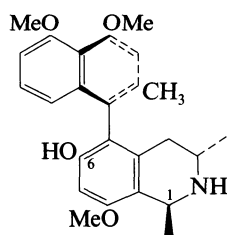
Bringmann, G. et al, *Phytochemistry*, 1993, **33**, 1511 (isol, ir, cd, pmr, ms, struct)

Ancistrocladine**A-10083**

Updated Entry replacing A-01663

5-(4,5-Dimethoxy-2-methyl-1-naphthalenyl)-1,2,3,4-tetrahydro-8-methoxy-1,3-dimethyl-6-isoquinolinol, 9CI

[32221-59-3]



Absolute configuration

 $C_{25}H_{29}NO_4$ M 407.508

Diastereoisomer of Hamatine, H-00062. Alkaloid from *Ancistrocladus heyneanus*, *A. congolensis*, *A. hamatus* and *A. tectorius* (Ancistrocladaceae). Cryst. (MeOH). Mp 265-267° dec.

B,HCl: Needles (MeOH/Me₂CO). Mp 220-224° dec. $[\alpha]_D^{25}$ -25.5° (c, 2.3 in MeOH).

B,HBr: Needles (MeOH). Mp 229-231° dec.

Me ether: [32215-20-6]. **O-Methylancistrocladine**

$C_{26}H_{31}NO_4$ M 421.535

Alkaloid from the root and stem bark of *A. congolensis* (Ancistrocladaceae). Fluffy needles (MeOH). Mp 200-202°.

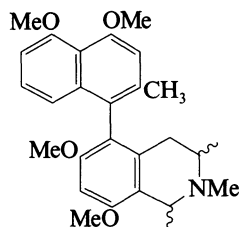
Me ether; B,HCl: Needles (Me₂CO). Mp 315-317° dec. $[\alpha]_D^{25}$ -56.1° (c, 1.9 in CHCl₃).

Ancistrocladonine

A-10084

Updated Entry replacing A-01665

5-(4,5-Dimethoxy-2-methyl-1-naphthalenyl)-1,2,3,4-tetrahydro-6,8-dimethoxy-1,2,3-trimethylisoquinoline, 9CI [54382-91-1]



$C_{27}H_{33}NO_4$ M 435.562

Alkaloid from the roots of *Ancistrocladus ealaensis* (Ancistrocladaceae). Needles (Et₂O). Mp 82-83°. $[\alpha]_D^{20} +20^\circ$ (c, 1 in MeOH).

B,HClO₄: Cryst. (MeOH). Mp 256-258°. $[\alpha]_D^{20} +71^\circ$ (c, 1 in MeOH).

B,MeI: Yellow cryst. (Me₂CO). Mp 186-188°.

O⁶-De-Me: [82189-88-6]. **Ancistrocline**

$C_{26}H_{31}NO_4$ M 421.535

Alkaloid from *A. tectorius* (Ancistrocladaceae). Mp 227-228°. $[\alpha]_D^{33.5} +61.7^\circ$ (CHCl₃).

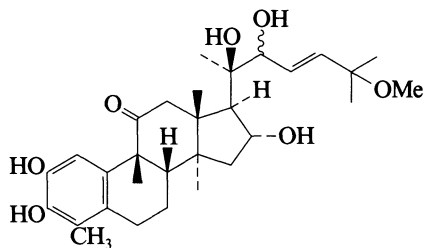
► Config. unknown.

Foucher, J.P. *et al*, *Phytochemistry*, 1974, **13**, 1253 (*isol, uv, ir, pmr, ms, struct*)

Chen, Z. *et al*, *Yaoxue Xuebao*, 1981, **16**, 519; *CA*, **97**, 20737 (*Ancistrocline*)

Andirobicin A

A-10085



$C_{30}H_{44}O_7$ M 516.673

2-O-β-D-Glucopyranoside:

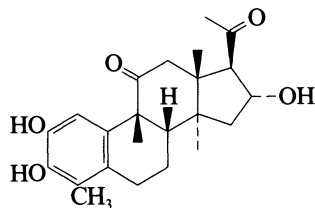
$C_{36}H_{54}O_{12}$ M 678.815

Constit. of *Fevillea trilobata*. Amorph. powder. $[\alpha]_D -9^\circ$ (c, 4 in MeOH).

Valente, L.M.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1772 (*isol, pmr, cmr*)

Andirobicin B

A-10086



$C_{23}H_{30}O_5$ M 386.487

2-O-β-D-Glucopyranoside:

$C_{29}H_{40}O_{10}$ M 548.629

Constit. of *Fevillea trilobata*. Amorph. powder. $[\alpha]_D +31^\circ$ (c, 1.7 in MeOH).

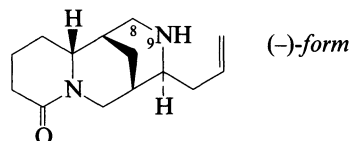
Valente, L.M.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1772 (*isol, pmr, cmr*)

Angustifoline†

A-10087

Updated Entry replacing A-01730

Decahydro-4-(2-propenyl)-1,5-methano-8H-pyrido[1,2-a][1,5]diazocin-5-one, 9CI. **Jamaicensine** [550-43-6]



$C_{14}H_{22}N_2O$ M 234.341

Alkaloid from *Lupinus angustifolius*, *L. polyphyllus*, *L. albus*, *Ormosia jamaicensis* and *O. panamensis* (Leguminosae). Mp 80.5-81°. $[\alpha]_D -7.5^\circ$ (+5.2°) (EtOH).

B,HCl: Mp 96-97°.

Picrate: Mp 182-185°.

N-Ac: Mp 151-152°.

Dihydro: Mp 82-83°. $[\alpha]_D +37^\circ$ (EtOH).

N-Me: [4697-79-4]. **N-Methylangustifoline**

$C_{15}H_{24}N_2O$ M 248.367

A principle alkaloid of the oil of *L. mutabilis* (Leguminosae). Mp 86° (synthetic). $[\alpha]_D^{25} +7.24^\circ$ (c, 2.35 in EtOH) (synthetic). Isoln. is poorly documented.

8,9-Didehydro: **Dehydroangustifoline**. Alkaloid W102

$C_{14}H_{20}N_2O$ M 232.325

Alkaloid from *L. albus* and *L. angustifolius* (Leguminosae). Mp 105°.

Deoxo: **Deoxoangustifoline**. **Deoxyangustifoline**

$C_{14}H_{24}N_2$ M 220.357

Alkaloid from *Thermopsis mongolica* (Leguminosae).

N-Formyl: **N-Formylangustifoline**

$C_{15}H_{22}N_2O_2$ M 262.351

Alkaloid from combined leaf and hypocotyl extracts of *L. polyphyllus* (Leguminosae).

N-Methoxycarbonyl: **Angustifoline N-carboxymethyl ester**

$C_{16}H_{24}N_2O_3$ M 292.377

Alkaloid from combined leaf and hypocotyl extracts of *L. polyphyllus* (Leguminosae).

N-Ethoxycarbonyl: **Angustifoline N-carboxyethyl ester**

$C_{17}H_{26}N_2O_3$ M 306.404

Alkaloid from combined leaf and hypocotyl extracts of *L. polyphyllus* (Leguminosae).

Bohlmann, F. *et al*, *Chem. Ber.*, 1960, **93**, 1956; 1962, **95**, 944 (*ir, isol, struct, synth*)

Lloyd, H.A. *et al*, *J. Org. Chem.*, 1960, **25**, 1959 (*isol*)

Marion, L. *et al*, *Tetrahedron Lett.*, 1960, **no. 19**, 1 (*struct, Angustifoline, Dehydroangustifoline*)

Fales, H.M. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 1590 (*ms*)

Lloyd, H.A. *et al*, *Phytochemistry*, 1975, **14**, 155 (*biosynth*)

Bratek-Wiewiorowska, M.D. *et al*, *Pol. J. Chem. (Rocz. Chem.)*, 1979, **55**, 69 (*ir, pmr, conformn*)

Hatzold, T. *et al*, *Fette, Seifen, Anstrichm.*, 1982, **84**, 59 (*isol, N-Methylangustifoline*)

Fraser, A.M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1984, 1477 (*biosynth*)

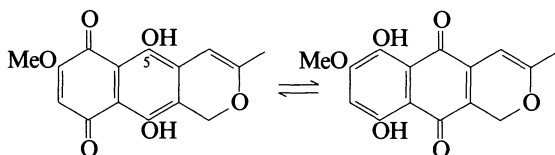
Christov, V. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 1413 (*Deoxoangustifoline*)

Veen, G. *et al*, *Phytochemistry*, 1992, **31**, 4343 (*derivs*)

Anhydrofusarubin**A-10088**

Updated Entry replacing A-01758

5,10-Dihydroxy-7-methoxy-3-methyl-1H-naphtho[2,3-c]pyran-6,9-dione
[79383-28-1]

C₁₅H₁₂O₆ M 288.256

Isol. from cultures of *Nectria haematococca*. Violet-black needles (MeOH). Mp 193-201°.

O-De-Me: [28125-57-7]. **O-Demethylanhydrofusarubin**

C₁₄H₁₀O₆ M 274.229

Isol. from cultures of *Gibberella fujikuroi*. Purple needles (Me₂CO). Mp 202-204°.

5-Deoxy: [99088-27-4]. **Anhydro-5-deoxyfusarubin**. 5-Deoxyanhydrofusarubin

C₁₅H₁₂O₅ M 272.257

Isol. from cultures of *N. haematococca*. Vermilion needles. Mp 205°, Mp 210-213° (double Mp). Also called 4-deoxy.

6-Deoxy: [132899-06-0]. **6-Deoxyanhydrofusarubin**

C₁₅H₁₂O₅ M 272.257

Isol. from *N. haematococca*. Dark violet cryst. (EtOAc/heptane). Mp 124-128°. Also called 5-deoxy.

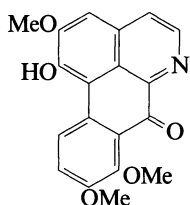
Cross, B.E. *et al*, *J. Chem. Soc. C*, 1970, 930 (*isol, uv, ir, pmr, ms, struct*)

Parisot, D. *et al*, *Phytochemistry*, 1985, **24**, 1977 (*biosynth, struct, deriv*)

Parisot, D. *et al*, *J. Antibiot.*, 1992, **45**, 1799 (5-Deoxyanhydrofusarubin, 6-Deoxyanhydrofusarubin)

Annolatin**A-10089**

[149998-52-7]

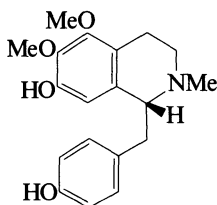
C₁₉H₁₅NO₅ M 337.331

Alkaloid from leaves of *Annona montana* (Annonaceae). Green amorph. powder.

Wu, Y.-C. *et al*, *Phytochemistry*, 1993, **33**, 497 (*isol, uv, ir, pmr, ms, struct*)

Annonelliptine**A-10090**

Updated Entry replacing A-01821

C₁₉H₂₃NO₄ M 329.395**(R)-form** [96400-46-3]

Alkaloid from the leaves and stems of *Annona elliptica* (Annonaceae). Needles (MeOH). Mp 198-200°. [α]_D²² – 101.0° (c, 0.38 in CHCl₃/MeOH 1:1).

N-De-Me: [142287-93-2]. **Anomoline**

C₁₈H₂₁NO₄ M 315.368

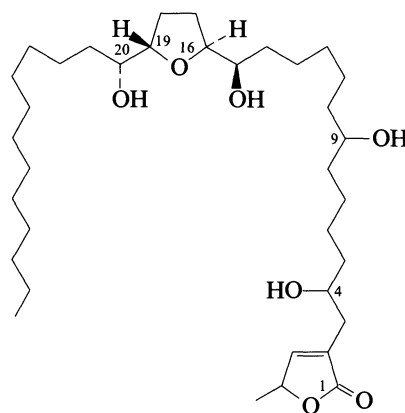
Alkaloid from stems of *A. cherimola* (Annonaceae). Mp 193-194.5°. [α]_D²⁵ + 27.82° (MeOH).

Sandoval, D. *et al*, *Phytochemistry*, 1985, **24**, 375 (*isol, uv, ir, pmr, cmr, ms, ord, struct*)

Yang, T.H. *et al*, *Zhonghua Yaoxue Zazhi*, 1991, **43**, 457; *CA*, **117**, 44523m (*Anomoline*)

Annoreticuin**A-10091**

[142488-56-0]

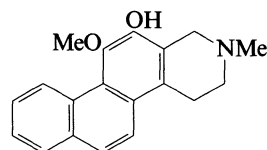
C₃₅H₆₄O₇ M 596.886

Acetogenin isol. from *Annona reticulata*. Cytotoxic. Amorph. powder. [α]_D²⁴ + 10.5° (c, 0.02 in CHCl₃).

Wu, Y.-C. *et al*, *Heterocycles*, 1992, **34**, 667 (*isol, pmr, cmr*)

Annoretine**A-10092**

[149998-37-8]

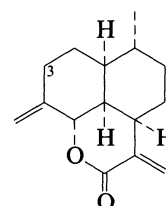
C₁₉H₁₉NO₂ M 293.365

Alkaloid from leaves of *Annona montana* (Annonaceae). Exhibits significant cytotoxicity. Purple oil.

Wu, Y.-C. *et al*, *Phytochemistry*, 1993, **33**, 497 (*isol, uv, ir, pmr, cmr, ms, struct*)

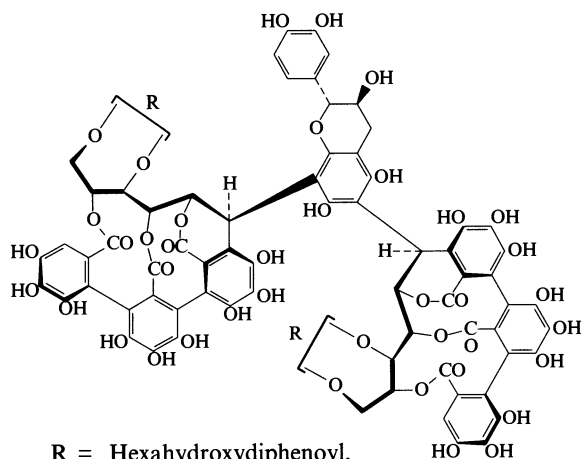
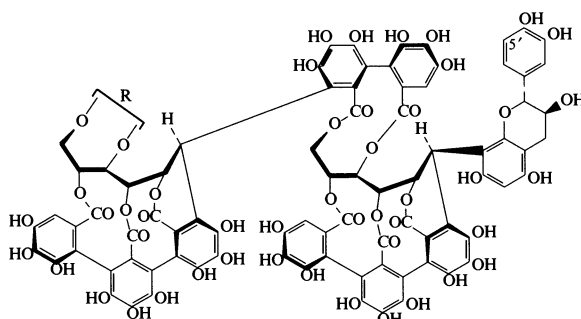
Annulide**A-10093**

[103739-95-3]

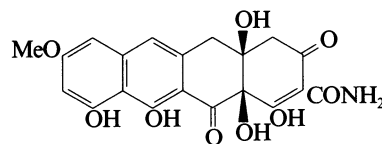
C₁₅H₂₀O₂ M 232.322

Constit. of *Artemisia annua*. Oil.

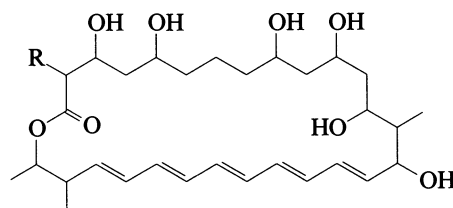
Δ³-Isomer: [103739-94-2]. **Isoannulide**

C₁₅H₂₀O₂ M 232.322Constit. of *A. annua*.Brown, G.D., *Phytochemistry*, 1993, **32**, 391.**Anogeissinin****A-10094**R = Hexahydroxydiphenoyl,
C₁₄H₈O₈C₉₇H₆₂O₅₆ M 2123.523A flavano-ellagitannin constit. of the bark of *Anogeissus acuminata*. Tan amorph. powder + 3H₂O. [α]_D²⁰ +6.5° (c, 1.1 in MeOH).Lin, T.-C. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1144 (*struct*, *pmr*, *cmr*, *synth*)**Anogeissusin A****A-10095**R = Hexahydroxydiphenoyl,
C₁₄H₈O₈C₉₇H₆₂O₅₆ M 2123.523A flavano-ellagitannin from the bark of *Anogeissus acuminata*. Tan amorph. powder + 3H₂O. [α]_D²⁰ +15.3° (c, 1.0 in MeOH).**5'-Hydroxy: Anogeissusin B**C₉₇H₆₂O₅₇ M 2139.523Isol. from the bark of *A. acuminata* var. *lanceolata*. Tan powder + 3H₂O. [α]_D²¹ +10.1° (c, 1 in MeOH).Lin, T.-C. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1144 (*struct*, *pmr*, *cmr*, *synth*)**Anthrotainin****A-10096**

[148084-40-6]

C₂₀H₁₇NO₉ M 415.356Tetracycline antibiotic related to Viridicatumtoxin, V-00367. Prod. by *Gliocladium catenulatum*. Substance P binding inhibitor. V. unstable.Wong, S.M. *et al*, *J. Antibiot.*, 1993, **46**, 214 (*isol*, *pmr*, *cmr*, *struct*, *props*)**Antibiotic AB 023****A-10097**

AB 023

Antibiotic AB 023A R = CH₃Antibiotic AB 023B R = CH₂CH₃Polyene antibiotic complex. Prod. by *Streptomyces* sp. SD581. Antifungal agent.**Antibiotic AB 023A** [141443-39-2]

AB 023A

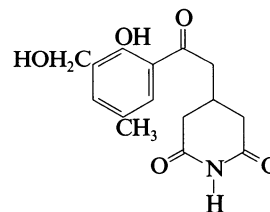
C₃₁H₅₀O₈ M 550.731**Antibiotic AB 023B** [141443-40-5]

AB 023B

C₃₂H₅₂O₈ M 564.758Cidaria, D. *et al*, *J. Antibiot.*, 1993, **46**, 251, 255 (*isol*, *pmr*, *cmr*, *ms*, *struct*)**Antibiotic AH 135Y****A-10098**

AH 135Y

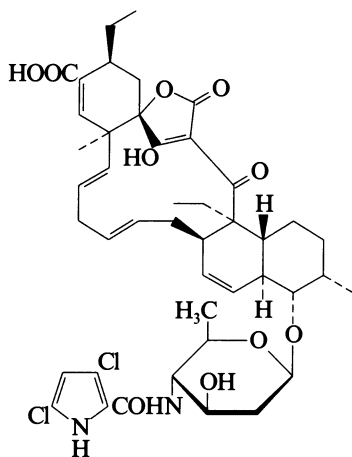
[145066-21-3]

C₁₅H₁₇NO₅ M 291.303Glutarimid antibiotic. Prod. by *Streptomyces albovinaceus*. Antihypertheric agent. Powder. Mp 220°.Uyeda, M. *et al*, *J. Antibiot.*, 1992, **45**, 1370 (*isol*, *struct*, *props*)

Antibiotic BMY 42448

BMY 42448

[140395-71-7]

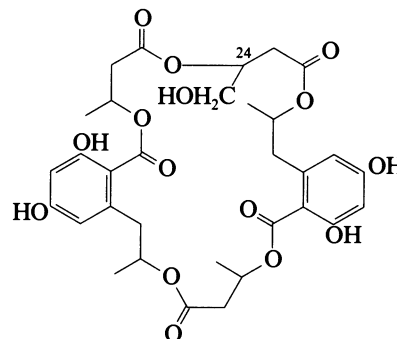
 $C_{45}H_{56}Cl_2N_2O_9$ M 839.851Prod. by *Micromonospora narashinoensis*. Antitumour agent. Solid.

U.S. Pat., 5 082 933, (1992); CA, 116, 190938w (ir, uv, pmr, cmr)

A-10099Isol. from a *Pestalotia* sp. Immunosuppressant.Burres, N.S. et al, *J. Antibiot.*, 1992, 45, 1367 (Cytochalasin U)
Ondeyka, J. et al, *J. Antibiot.*, 1992, 45, 679, 686 (isol, pmr, cmr, struct)**Antibiotic NG 011**

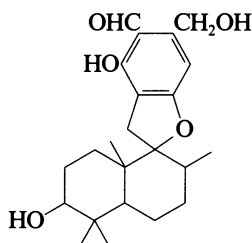
NG 011

[141731-75-1]

 $C_{32}H_{38}O_{15}$ M 662.643Prod. by *Penicillium verruculosum*. Potentiator of nerve growth factor. Powder. Mp 85-100°. $[\alpha]_D^{26} - 7.2^\circ$ (c, 0.25 in EtOH).24-Epimer: [141731-76-2]. **Antibiotic NG 012**. NG 012 $C_{32}H_{38}O_{15}$ M 662.643From *P. verruculosum*. Potentiator of nerve growth factor. Powder. Mp 113-120°. $[\alpha]_D^{26} - 25.2^\circ$ (c, 0.25 in EtOH).Ito, M. et al, *J. Antibiot.*, 1992, 45, 1559, 1566 (isol, pmr, cmr, struct, props)**A-10102****Antibiotic L 671776**

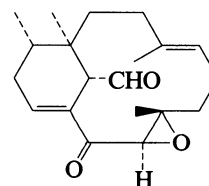
L 671776

[134313-74-9]

 $C_{23}H_{32}O_5$ M 388.503Isol. from the hyphomycete, *Memnoniella echinata*. Inositol monophosphatase inhibitor.Lam, Y.K.T. et al, *J. Antibiot.*, 1992, 45, 1397 (isol, pmr, props)**A-10100****Antibiotic Sch 47918**

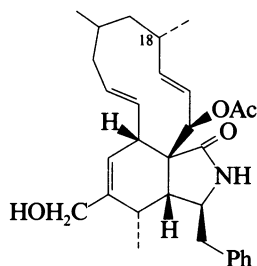
Sch 47918

[143903-06-4]

 $C_{20}H_{28}O_3$ M 316.439Prod. by a *Phoma* sp. Platelet activating factor antagonist.
Cryst. Mp 204-205°. $[\alpha]_D^{22} + 22.4^\circ$ (c, 0.34 in $CHCl_3$).Chu, M. et al, *J. Org. Chem.*, 1992, 57, 5817 (isol, pmr, cmr, cryst struct)**A-10103****Antibiotic L 697318**

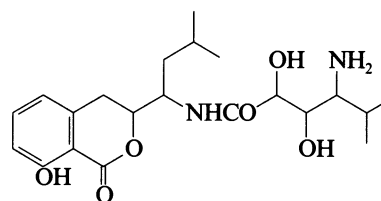
Updated Entry replacing A-02167

L 697318

 $C_{30}H_{39}NO_4$ M 477.642Metab. of *Hypoxylon fragiforme*. Amorph.Deoxy: **Antibiotic L 696475**. L 696475 $C_{30}H_{39}NO_3$ M 461.643Metab. of *H. fragiforme*. Amorph.18 β -Hydroxy: **Cytochalasin U** $C_{30}H_{39}NO_5$ M 493.642**A-10101****Antibiotic Y 05460MA**

Y 05460MA

[126262-07-5]

 $C_{21}H_{32}N_2O_6$ M 408.494**A-10104**

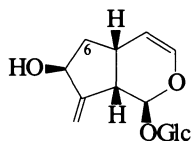
Prod. by a *Bacillus* sp. Y-05460M. Active against gram-positive and -negative bacteria. Shows antitumour and antiulcer activities. Powder. Mp 104-106°. Related to Amicoumacin B, A-01202.

Sato, T. *et al*, *J. Antibiot.*, 1992, **45**, 1949.

Antirride**A-10105**

Updated Entry replacing A-02521

1,4a,5,6,7,7a-Hexahydro-6-hydroxy-7-methylenecyclopenta[c]pyran-1-yl- β -D-glucopyranoside, 9CI. Antirrhide [27935-00-8]



$C_{15}H_{22}O_8$ M 330.334

Constit. of *Antirrhinum tortuosum* and of *Linaria japonica*.

Cryst. Mp 85-87°. $[\alpha]_D^{23} - 116^\circ$ (c, 0.42 in dioxan).

Penta-Ac: Mp 154-155°. $[\alpha]_D^{23} - 155^\circ$ (c, 1.05 in dioxan).

6 β -Hydroxy: 6 β -Hydroxyantirride

$C_{15}H_{22}O_9$ M 346.333

Constit. of *L. japonica*, *L. genistifolia* and *L. peloponnesiaca*. Amorph. powder. $[\alpha]_D^{20} - 85.7^\circ$ (MeOH), $[\alpha]_D - 125^\circ$ (c, 0.88 in MeOH).

Scarpati, M.L. *et al*, *Gazz. Chim. Ital.*, 1969, **99**, 807; *CA*, **72**, 90815 (isol, struct)

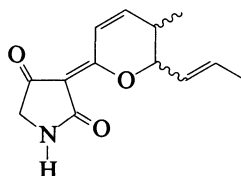
Kitagawa, I. *et al*, *Chem. Pharm. Bull.*, 1973, **21**, 1978 (isol, struct)

Otsuka, H., *Phytochemistry*, 1993, **33**, 617 (isol, pmr, cmr)

Handjieva, N.V. *et al*, *Tetrahedron*, 1993, **49**, 9261 (6 β -Hydroxyantirride)

Apiodionene**A-10106**

[142808-38-6]



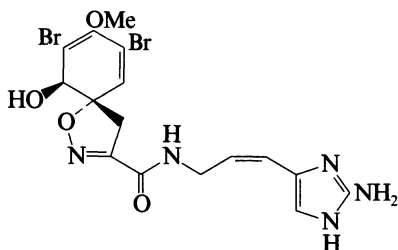
$C_{13}H_{15}NO_3$ M 233.266

Isol. from *Apiosordaria effusa*. Antiinflammatory and anticancer agent. Mp 190-192°. $[\alpha]_D^{25} + 155.4^\circ$.

Japan. Pat., 92 49 289, (1992); *CA*, **117**, 88730 (isol, ir, uv, pmr, cmr)

Aplysinamisine I**A-10107**

[150417-67-7]



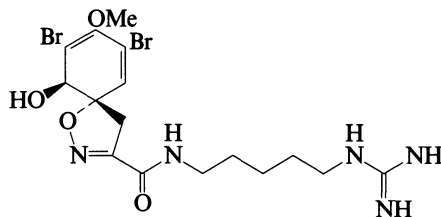
$C_{16}H_{17}Br_2N_5O_4$ M 503.149

Alkaloid from the Caribbean sponge *Aplysina cauliformis*. Oil. $[\alpha]_D^{26} + 121.9^\circ$ (c, 5.7 in MeOH).

Rodriguez, A.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 907 (isol, uv, ir, pmr, cmr, ms, struct)

Aplysinamisine II**A-10108**

[150417-68-8]



$C_{16}H_{23}Br_2N_5O_4$ M 509.197

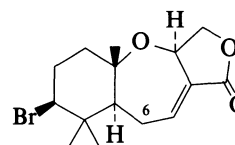
Alkaloid from the Caribbean sponge *Aplysina cauliformis*. Semisolid. $[\alpha]_D^{26} + 47.0^\circ$ (c, 7.9 in MeOH).

Rodriguez, A.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 907 (isol, uv, ir, pmr, cmr, ms, struct)

Aplysistatin**A-10109**

Updated Entry replacing A-02588

[62003-89-8]



$C_{15}H_{21}BrO_3$ M 329.233

Constit. of *Aplysia angasi*. Cryst. Mp 173-175°. $[\alpha]_D^{25} - 375^\circ$ (MeOH).

12-Deoxo: [77249-86-6]. 12-Deoxyaplysistatin. **Palisadin A**

$C_{15}H_{23}BrO_2$ M 315.249

Constit. of *Laurencia palisada*. Oil. $[\alpha]_D + 19.5^\circ$ (c, 1.5 in $CHCl_3$). Slowly oxid. to Aplysistatin in air.

6 β -Hydroxy: 6 β -Hydroxyaplysistatin

$C_{15}H_{21}BrO_4$ M 345.232

Constit. of *L. filiformis*. Cryst. (MeOH). Mp 153.5-155.5°. $[\alpha]_D^{25} + 130^\circ$ (c, 0.4 in MeOH).

12-Deoxo, 3 ζ ,4 ζ -epoxide: 3,4-Epoxy**palisadin A**

$C_{15}H_{23}BrO_3$ M 331.249

Constit. of *L. flexilis*. Cryst. Mp 119-122°. $[\alpha]_D^{25} + 10^\circ$ (c, 0.1 in $CHCl_3$).

12-Deoxy, 5 β -acetoxy: 5 β -Acetoxy**palisadin A**

$C_{17}H_{25}BrO_4$ M 373.286

Constit. of *L. flexilis*. Oil. $[\alpha]_D^{25} - 45^\circ$ (c, 0.1 in $CHCl_3$).

Pettit, G.R. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 262.

Paul, V.J. *et al*, *Tetrahedron Lett.*, 1980, 2787 (deriv)

Capon, R. *et al*, *Tetrahedron*, 1981, **37**, 1613 (6 β -Hydroxyaplysistatin, *cryst struct, abs config*)

White, J.D. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 3923 (synth)

Hoye, T.R. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 6704 (synth)

Shieh, H.-M. *et al*, *Tetrahedron Lett.*, 1982, **23**, 4643 (synth)

Kraus, G.A. *et al*, *J. Org. Chem.*, 1983, **48**, 5356 (synth)

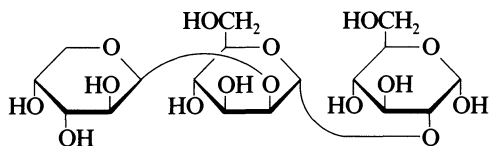
Gosselin, P. *et al*, *Tetrahedron Lett.*, 1983, **24**, 5515 (synth)

Tanaka, A. *et al*, *Agric. Biol. Chem.*, 1984, **48**, 2535; 1986, **50**, 1069 (synth)

De Nys, R. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 877 (isol, derivs, pmr, cmr)

β -D-Arabinopyranosyl-(1 \rightarrow 2)- α -D-mannopyranosyl-(1 \rightarrow 2)-D-glucose
Ristriose

A-10110

 α -Pyranose-form $C_{17}H_{30}O_{15}$ M 474.415

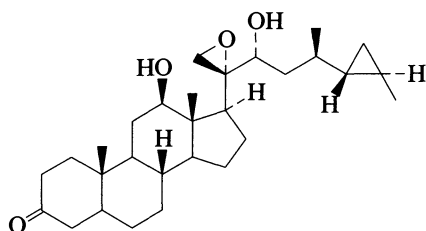
Formed by the acetolysis of Ristomycin A, R-00299.

 α -Pyranose-form*Deca-Ac*: [68787-45-1]. $C_{37}H_{50}O_{25}$ M 894.787

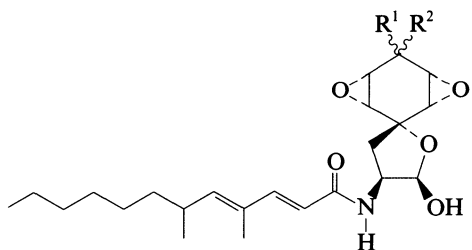
Mp 84-87°.

Neszmelyi, A. *et al*, *J. Antibiot.*, 1978, **31**, 974 (*cmr*)Sztaricskai, F. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 7093 (*isol*, *pmr*)**Aragusterol**

A-10111

 $C_{29}H_{46}O_4$ M 458.680Constit. of a *Xestospongia* sp. Needles. Mp 157-158°. $[\alpha]_D^{25} + 37.6^\circ$ (c, 1.06 in $CHCl_3$).Iguchi, K. *et al*, *Tetrahedron Lett.*, 1993, **34**, 6277 (*isol*, *pmr*, *cmr*)**Aranorosinol A**

A-10112

 $R^1 = OH, R^2 = H$ $C_{23}H_{35}NO_6$ M 421.533Prod. by *Pseudoarachniotus roseus*. Powder + $1H_2O$. Mp 133-135°. $[\alpha]_D^{25} - 25.06^\circ$ (c, 7.82 in MeOH).Roy, K. *et al*, *J. Antibiot.*, 1992, **45**, 1592 (*isol*, *pmr*, *cmr*, *struct*)**Aranorosinol B**

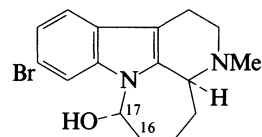
A-10113

[145147-05-3]

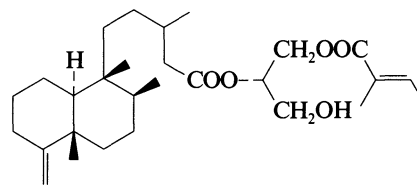
As Aranorosinol A, A-10112 with

 $R^1 = OH, R^2 = -CH_2COCH_3$ $C_{26}H_{39}NO_7$ M 477.597Prod. by *Pseudoarachniotus roseus*. Powder. Mp 84-85°. $[\alpha]_D^{25} - 9.3^\circ$ (c, 0.4 in $CHCl_3$).Roy, K. *et al*, *J. Antibiot.*, 1992, **45**, 1592 (*isol*, *pmr*, *cmr*, *struct*)**Arborescidine C**

[147395-94-6]

 $C_{16}H_{19}BrN_2O$ M 335.243Alkaloid from the marine tunicate *Pseudodistoma arborescens*. Cryst. (MeOH). Mp 172-173°. $[\alpha]_D^{25} + 3^\circ$ (c, 1 in $CHCl_3$).*17-Epimer*: [147512-45-6]. **Arborescidine D** $C_{16}H_{19}BrN_2O$ M 335.243Alkaloid from the marine tunicate *P. arborescens*.Exhibits moderate cytotoxicity *in vitro* against KB human buccal carcinoma. Amorph. solid.*17-Deoxy, 16,17-didehydro*: [147395-93-5]. **Arborescidine B** $C_{16}H_{17}BrN_2$ M 317.228Alkaloid from *P. arborescens*. Oil. $[\alpha]_D^{25} + 70^\circ$ (c, 0.6 in $CHCl_3$).Chbani, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 99 (*isol*, *uv*, *ir*, *pmr*, *cmr*, *ms*, *cd*, *struct*)**Archidorin**

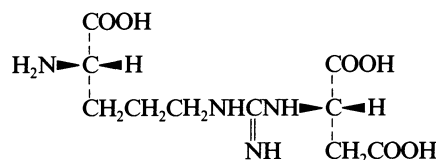
A-10115

 $C_{28}H_{46}O_5$ M 462.668Constit. of *Archidoris tuberculata*. Amorph. powder. $[\alpha]_D^{25} + 12.1^\circ$ (c, 0.3 in $CHCl_3$).Cimino, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1642 (*isol*, *pmr*, *cmr*)**Argininosuccinic acid**

A-10116

N-[[4-Amino-4-carboxybutyl]amino]iminomethyl]aspartic acid, 9CI. N-[(4-Amino-4-carboxybutyl)amidino]aspartic acid, 8CI

[2387-71-5]

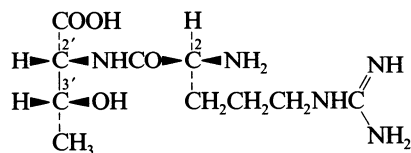
 $C_{10}H_{18}N_4O_6$ M 290.275

Abnormal metab. in some cases of mental disease.

Intermd. in biosynth. of Arginine from Citrulline and of Urea. $[\alpha]_D^{24} + 16.4^\circ$ (c, 0.29 in H_2O), $[\alpha]_D^{25} + 5.2^\circ$ (c, 0.29 in 0.5M HCl), $[\alpha]_D^{25} + 26.6^\circ$ (c, 0.29 in 0.5M NaOH).Ratner, S. *et al*, *J. Biol. Chem.*, 1953, **204**, 95 (*isol*)Westall, R.G., *Biochem. J.*, 1960, **77**, 135 (*isol*, *synth*)Ratner, S. *et al*, *Biochemistry*, 1966, **5**, 1821 (*biosynth*)Kowalsky, A. *et al*, *Biochemistry*, 1969, **8**, 899 (*pmr*)*Japan. Pat.*, 71 37 868, (1971); *CA*, **76**, 32892c (*manuf*)*Japan. Pat.*, 72 37 032, (1972); *CA*, **78**, 2748j (*manuf*)

Arginylthreonine

A-10117



$C_{10}H_{21}N_5O_4$ M 275.307
(2*S*,2'*S*,3'*R*)-form [106326-78-7]
L,L-form

N^2 -(2,3-Dihydroxybenzoyl): [143651-45-0]. **Benarthin**

$C_{17}H_{25}N_5O_7$ M 411.414

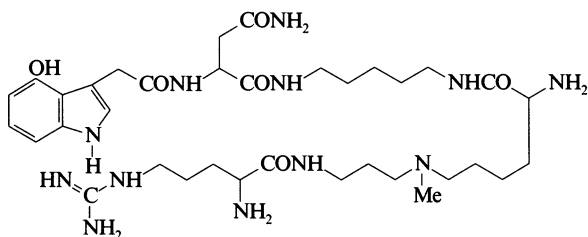
Prod. by *Streptomyces xanthophaeus*. Inhibitor of pyroglutamyl peptidase. Powder + $\frac{1}{2}H_2O$ (as monohydrochloride). Mp 178-180° (monohydrochloride). $[\alpha]_D^{24} -2.5^\circ$ (c, 1 in H_2O).

Aoyagi, T. *et al.*, *J. Antibiot.*, 1992, **45**, 1079, 1084, 1088 (Benarthin)

Argiopinini II

A-10118

[117233-42-8]



$C_{35}H_{60}N_{12}O_6$ M 744.936

Isol. from the venom of the *Argiope lobatum* spider. An *N*-methylated cationic form, Argiopinini I, was also isol.

[117233-41-7]

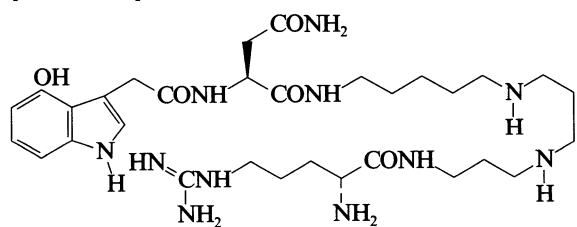
Grishin, E.V. *et al.*, *Toxicon*, 1989, **27**, 541 (isol)

Argiotoxin 659

A-10119

Argiopinini III

[111944-83-3]



$C_{31}H_{53}N_{11}O_5$ M 659.830

Argiopinini III had unspecified stereochem. and the two substances may not therefore be identical. Isol. from the venom of *Argiope aurantia* spider and (as Argiopinini III) from *A. lobatum* venom.

[117306-99-7]

Adams, M.E. *et al.*, *Biochem. Biophys. Res. Commun.*, 1987, **148**, 678 (isol)

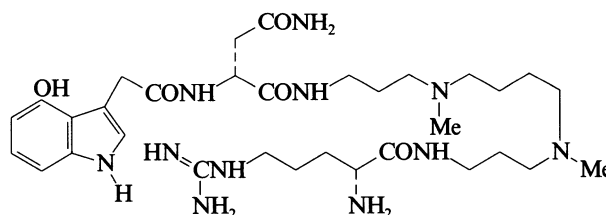
Jasys, V.J. *et al.*, *Tetrahedron Lett.*, 1988, **29**, 6223 (synth, cmr, pmr)

Grishin, E.V. *et al.*, *Toxicon*, 1989, **27**, 541 (Argiopinini III)

Argiotoxin 673

A-10120

[111924-44-8]



$C_{32}H_{55}N_{11}O_5$ M 673.857

Isol. from the venom of *Argiope aurantia* spider.

Adams, M.E. *et al.*, *Biochem. Biophys. Res. Commun.*, 1987, **148**, 678 (isol)

Jasys, V.J. *et al.*, *Tetrahedron Lett.*, 1988, **29**, 6223 (synth, cmr, pmr)

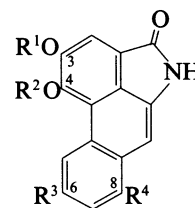
Aristolactam BII

A-10121

Updated Entry replacing A-02736

Cepharanone B. O-Methylaristolactam AII. Alkaloid Y

[53948-09-7]



$R^1 = R^2 = Me$,
 $R^3 = R^4 = H$

$C_{17}H_{13}NO_3$ M 279.295

Alkaloid from the roots of *Aristolochia argentina*, the bark of *Schefferomitra subaequalis* and the callus tissue of *Stephania cepharantha* (Aristolochiaceae, Annonaceae, Menispermaceae). Also isol. from stem bark of *Goniothalamus velutinus* (Annonaceae). Cryst. (MeOH, Me_2CO or butanol). Mp 247-250°, Mp 257-258°, Mp 264-265°.

2-Hydroxy: [128718-51-4]. **Piperolactam B**

$C_{17}H_{13}NO_4$ M 295.294

Alkaloid from *Piper attenuatum* and *P. boehmerifolium* (Piperaceae). Yellow cryst. ($C_6H_6/MeOH$). Mp 226-227°. This struct. was originally assigned to Piperolactam D by Desai *et al.* (1990).

8-Hydroxy: **Velutinam**

$C_{17}H_{13}NO_4$ M 295.294

Alkaloid from stem bark of *G. velutinus* (Annonaceae). Brownish-yellow needles. Mp 267-270°.

Gellert, E. *et al.*, *Aust. J. Chem.*, 1972, **25**, 2477 (isol, uv, pmr, ms)

Crohare, R. *et al.*, *Phytochemistry*, 1974, **13**, 1957 (isol, uv, ir, pmr, ms, struct)

Akasu, M. *et al.*, *Tetrahedron Lett.*, 1974, 3609 (uv, ir, pmr, ms, struct)

Dyke, S.F. *et al.*, *Phytochemistry*, 1978, **17**, 599 (ir, ms, struct)

Priestap, H.A., *Phytochemistry*, 1985, **24**, 849 (pmr, cmr)

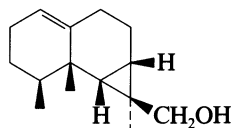
Desai, S.J. *et al.*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 496 (Piperolactam B)

Omar, S. *et al.*, *Phytochemistry*, 1992, **31**, 4395 (Velutinam)

Olsen, C.E. *et al.*, *Phytochemistry*, 1993, **33**, 518 (struct, Piperolactam B)

1(10)-Aristolen-12-ol

A-10122

C₁₅H₂₄O M 220.354

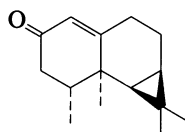
Ac: [148371-05-5].

C₁₇H₂₆O₂ M 262.391Constit. of *Lemmalia africana*. Oil. [α]_D –62° (c, 1 in CHCl₃).Jurek, J. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 508 (isol, pmr, cmr)

1(10)-Aristolen-2-one

A-10123

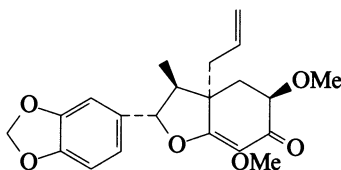
[28398-06-3]

C₁₅H₂₂O M 218.338Constit. of *Aristolochia longa* and *Nardostachys jatamansi*. Solid. Mp 41°.Fernandez, A. et al, *Phytochemistry*, 1983, **22**, 2753 (isol, pmr)

Armenin B

A-10124

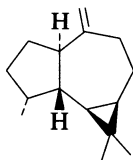
[70561-33-0]

C₂₁H₂₄O₆ M 372.417Constit. of *Licaria armeniaca* and *Ucotea aciphylla*. Cryst. (Me₂CO). Mp 122-125°.Aiba, C.J. et al, *Phytochemistry*, 1978, **17**, 2038 (isol, pmr)D'A Felicio, J. et al, *Phytochemistry*, 1986, **25**, 1707 (isol)

10(14)-Aromadendrene

A-10125

Updated Entry replacing A-02793



(1α,4α,5β,6α,7α)-form

C₁₅H₂₄ M 204.355

(1α,4α,5β,6α,7α)-form [14682-34-9] (–)-Aromadendrene. β-Diploalbicene

Constit. of *Bixa orellana* and *Eucalyptus sideroxylon*.Oil. [α]_D –11° (EtOH).

10β,14-Epoxy: [85710-39-0]. 10,14-Epoxyaromadendrane.

Aromadendrene epoxide

C₁₅H₂₄O M 220.354Constit. of *Thymus borgiae* and hops.

(1β,4α,5β,6β,7β)-form [25246-27-9] Alloaromadendrene. α-Aromadendrene

Constit. of many essential oils incl. *Ledum palustre*, *Croton* spp. *E. globulus*, *Metrosideros scandens*, *Perovskia scrophulariaefolia*, *Glycyrrhiza triphylla*. Oil. Bp₂ 96°. [α]_D²⁰ –21.6°. n_D¹⁸ 1.5010.

10β,14-Epoxy: [85760-81-2]. Alloaromadendrene epoxide

C₁₅H₂₄O M 220.354Constit. of *T. borgiae*.

(1β,4β,5α,6β,7β)-form [489-39-4] (+)-Aromadendrene

Constit. of *Agathis australis*, *Artemisia vestita* and *E. oils*. Oil. Bp 260-265°. [α]_D +24.5°.Dolejš, L. et al, *Collect. Czech. Chem. Commun.*, 1960, **25**, 1483 (isol)Büchi, G. et al, *J. Am. Chem. Soc.*, 1969, **91**, 6473 (synth, abs config, bibl)Tressl, R. et al, *J. Agric. Food Chem.*, 1983, **31**, 892

(Aromadendrene epoxide)

Bohlmann, F. et al, *Planta Med.*, 1984, **50**, 1950

(Alloaromadendrene epoxide)

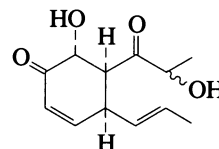
Zafra-Polo, M.C. et al, *J. Chromatogr.*, 1990, **518**, 230

(Aromadendrene epoxide)

Arthrospadiol B

A-10126

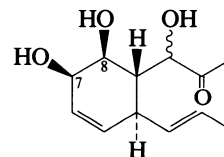
[144447-85-8]

C₁₂H₁₆O₄ M 224.256Metab. of *Arthrospis truncata*. Oil. [α]_D²⁵ –389° (c, 0.32 in MeOH).Ayer, W.A. et al, *Can. J. Chem.*, 1992, **70**, 1338 (isol, pmr, cmr)

Arthrospatriol A

A-10127

[144539-80-0]

C₁₂H₁₈O₄ M 226.272Metab. of *Arthrospis truncata*. Oil.

7-Epimer: [144447-87-0]. Arthrospatriol B

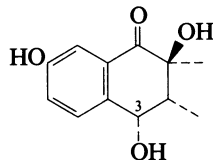
C₁₂H₁₈O₄ M 226.272Metab. of *A. truncata*. Oil. [α]_D²⁵ –216° (c, 1 in MeOH).

7-Ketone: [144447-84-7]. Arthrospadiol A

C₁₂H₁₆O₄ M 224.256Metab. of *A. truncata*. Needles. Mp 78-79°. [α]_D –245.7° (c, 1.05 in MeOH).Ayer, W.A. et al, *Can. J. Chem.*, 1992, **70**, 1338, 1348 (isol, pmr, cmr, biosynth)

Arthropatriol C

3,4-Dihydro-2,4,7-trihydroxy-2,3-dimethyl-1(2H)-naphthalenone, 9CI
[144540-59-0]



C₁₂H₁₄O₄ M 222.240
Metab. of *Arthropopsis truncata*.

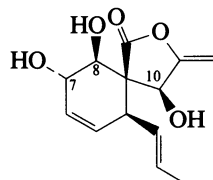
3-Epimer: **Arthropatriol D**
C₁₂H₁₄O₄ M 222.240
Metab. of *A. truncata*.

[144447-88-1]

Ayer, W.A. et al, *Can. J. Chem.*, 1992, **70**, 1338, 1348 (isol, pmr, cmr, biosynth)

Arthroposlide D

[144447-90-5]



C₁₃H₁₆O₅ M 252.266
Metab. of *Arthropopsis truncata*. Oily solid. [α]_D²⁵ –239° (c, 1.09 in MeOH).

7-Ketone: [144606-10-0]. **Arthroposlide A. Paecilospirone.**
MA 638-2-B. Antibiotic MA 638-2-B
C₁₃H₁₄O₅ M 250.251
Metab. of *A. truncata* and a *Paecilomyces* sp. Also from *Fusarium* sp. Needles (EtOAc/hexane). Mp 128° (142-145°). [α]_D²⁵ –302.4° (c, 1 in MeOH), [α]_D²³ –322.7° (c, 0.022 in MeOH). Identities of Arthroposlide A and MA 638-2-B not confirmed.

7,10-Diketone: [144447-89-2]. **Arthroposlide B**
C₁₃H₁₂O₅ M 248.235
Metab. of *A. truncata*.

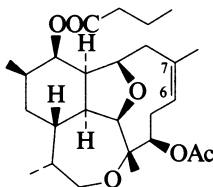
7,10-Diketone,8-epimer: [144539-81-1]. **Arthroposlide C**
C₁₃H₁₂O₅ M 248.235
Metab. of *A. truncata*.

[135048-14-5, 142507-24-2]

Hirota, A. et al, *Agric. Biol. Chem.*, 1991, **55**, 187 (*Paecilospirone*)
Ayer, W.A. et al, *Can. J. Chem.*, 1992, **70**, 1338, 1348 (isol, pmr, cmr, cryst struct, biosynth)

Asbestinin 2

Updated Entry replacing A-02853
[74145-73-6]



C₂₆H₄₀O₆ M 448.598

A-10128

Constit. of *Briareum asbestinum*. Cryst. (hexane). Mp 184-186°. [α]_D²⁰ –48.2° (c, 1.7 in CHCl₃).

6β,7β-Epoxide: [75961-66-9]. **Asbestinin epoxide**
C₂₆H₄₀O₇ M 464.598

Constit. of *B. asbestinum*. Oil. [α]_D²⁵ –21° (c, 0.3 in MeOH).

6E-Isomer: [74219-41-3]. **Asbestinin 1**

C₂₆H₄₀O₆ M 448.598

Isol. from *B. asbestinum*. Oil. [α]_D²⁰ –26.3° (c, 3.3 in CHCl₃).

6E-Isomer, O-de-Ac: [74145-72-5]. **Asbestinin 3**

C₂₄H₃₈O₅ M 406.561

Idol. from *B. asbestinum*. Cryst. (Et₂O/hexane). Mp 156-158°. [α]_D²⁰ –39.4° (c, 3.4 in CHCl₃).

4-Deacetoxy: [137419-51-3]. 4-Deacetoxyasbestinin 2. 4-Deoxyasbestinin C

C₂₄H₃₈O₄ M 390.562

Constit. of *B. asbestinum*. Oil. [α]_D²⁹ –1.2° (c, 0.84 in CHCl₃).

4-Deacetoxy, 11-deacyl, 11-Ac: [137419-52-4]. 11-Acetyl-4-deacetoxy-11-deacylasbestinin 2. 11-Acetoxy-4-deoxyasbestinin D

C₂₂H₃₄O₄ M 362.508

Constit. of *B. asbestinum*. Oil. [α]_D²⁹ –2.29° (c, 1.3 in CHCl₃).

6E-Isomer, 4-deacetoxy: [137767-97-6]. 4-

Deacetoxyasbestinin 1. 4-Deoxyasbestinin A

C₂₄H₃₈O₄ M 390.562

Constit. of *B. asbestinum*. Oil. [α]_D²⁹ –6.6° (c, 1.6 in CHCl₃).

6E-Isomer, 4-deacetoxy, 11-deacyl, 11-Ac: [137767-98-7].

11-Acetyl-4-deacetoxy-11-deacylasbestinin 1. 11-Acetoxy-4-deoxyasbestinin B

C₂₂H₃₄O₄ M 362.508

Constit. of *B. asbestinum*. Cryst. Mp 150-152°. [α]_D²⁹ –8.9° (c, 0.34 in CHCl₃). The trivial name given is confusing.

6E-Isomer, 11-deacyl, 11-octanoyl: [146471-82-1]. **Asbestinin 6**

C₃₀H₄₈O₆ M 504.706

Constit. of *B. asbestinum*. Oil. [α]_D²⁵ –75.9° (c, 4.08 in CHCl₃).

Δ⁷⁽¹⁹⁾-Isomer, 11-deacyl, 11-(2-hydroxyoctanoyl): [146471-83-2]. **Asbestinin 7**

C₃₀H₄₈O₇ M 520.705

Constit. of *B. asbestinum*. Oil. [α]_D²⁵ +5.0° (c, 3.2 in CHCl₃).

6E-Isomer, 11-ketone, 4-de-Ac, 4-octanoyl: [146471-84-3].

Asbestinin 8

C₂₈H₄₄O₅ M 460.653

Constit. of *B. asbestinum*. Oil. [α]_D²⁵ –49.0° (c, 3.9 in CHCl₃).

Δ⁷⁽¹⁹⁾-Isomer, 4-ketone: [146471-85-4]. **Asbestinin 9**

C₂₄H₃₆O₅ M 404.545

Constit. of *B. asbestinum*. Oil. [α]_D²⁷ –78.0° (c, 2 in CHCl₃).

Δ⁷⁽¹⁹⁾-Isomer, 4-ketone, 11-deacyl, 11-Ac: [146471-86-5].

Asbestinin 10

C₂₂H₃₂O₅ M 376.492

Constit. of *B. asbestinum*. Oil. [α]_D²⁵ –81.5° (c, 0.76 in CHCl₃).

Stierle, D.B. et al, *J. Am. Chem. Soc.*, 1980, **102**, 5088 (isol)

Selover, S.J. et al, *J. Org. Chem.*, 1981, **46**, 964 (isol)

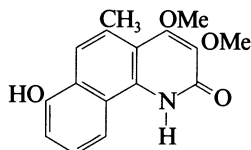
Morales, J.J. et al, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 1368 (derivs)

Rodríguez, A.D. et al, *Tetrahedron*, 1993, **49**, 319 (*Asbestinins 6-10*)

Asimicilone**A-10131**

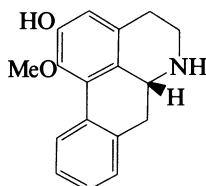
7-Hydroxy-3,4-dimethoxy-5-methylbenzo[h]quinolin-2(1H)-one, 9CI

[145701-06-0]

 $C_{16}H_{15}NO_4$ M 285.299Alkaloid from twigs of *Asimina parviflora* (Annonaceae).
Mp 191° (with dec. at 151°).Ratnayake, S. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1462 (*isol, uv, ir, pmr, cmr, ms, struct*)**Asimilobine****A-10132**

Updated Entry replacing A-02875

2-Hydroxy-1-methoxynoraporphine

Absolute
configuration $C_{17}H_{17}NO_2$ M 267.327**(R)-form** [6871-21-2]Alkaloid from a wide variety of genera in the Annonaceae (*Anaxagorea*, *Annona*, *Asimina*, *Melodorum*, *Desmos*, *Guatteria*, *Hexalobus*, *Mitrella*, *Monanthes*, *Popowia*, *Polyalthia*, *Schefferomitra*, *Xylopi*, *Uvaria*), Aristolochiaceae (*Aristolochia*), Magnoliaceae (*Liriodendron*, *Magnolia*), Atherospermataceae (*Laurelia*), Nelumbonaceae (*Nelumbo*), Lauraceae (*Ocotea*) and Rhamnaceae (*Zizyphus*). Mp 177-179°. $[\alpha]_D^{14} -213^\circ$ (c, 0.64 in $CHCl_3$).

N-Ac: [60031-90-5]. N-Acetylasimilobine. 6-Acetyl-2-hydroxy-1-methoxynoraporphine

 $C_{19}H_{19}NO_3$ M 309.364Alkaloid from the heartwood and discoloured sapwood of *Liriodendron tulipifera* (Magnoliaceae). Needles ($CHCl_3$). Mp 281-283°. $[\alpha]_D^{25} -405^\circ$ (c, 0.595 in Py).

N-Carbamoyl: [83459-47-6]. N-Carbamoylasimilobine. 6-Carbamoyl-2-hydroxy-1-methoxynoraporphine

 $C_{18}H_{18}N_2O_3$ M 310.352Alkaloid from the stem bark and root bark of *Hexalobus crispiflorus* (Annonaceae). Cryst. (MeOH). Mp 218° dec. $[\alpha]_D^{20} -373^\circ$ (c, 0.06 in MeOH).

N-Me: see N-Methylasimilobine, M-00797

O-β-D-Glucoside: Asimilobine 2-O-β-D-glucoside

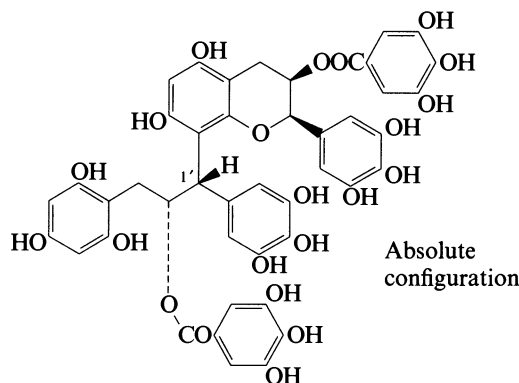
 $C_{23}H_{27}NO_7$ M 429.469Alkaloid from tubers of *Stephania pierrei* (Menispermaceae). Mp 158°. $[\alpha]_D^{20} -107^\circ$ (c, 0.1 in MeOH).Tomita, M. *et al*, *Yakugaku Zasshi*, 1965, **85**, 77 (*isol, uv, ir, pmr*)Johns, S.R. *et al*, *Aust. J. Chem.*, 1970, **23**, 363 (*isol, pmr*)Guinaudeau, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1975, **38**, 276 (*rev*)Hufford, C.D., *Phytochemistry*, 1976, **15**, 1169 (*N-Acetylasimilobine*)Chen, C.-L. *et al*, *Phytochemistry*, 1976, **15**, 547, 1161 (*N-Acetylasimilobine*)Ricca, G.S. *et al*, *Gazz. Chim. Ital.*, 1979, **109**, 1 (*cmr*)Achenbach, H. *et al*, *Justus Liebig's Ann. Chem.*, 1982, 1623 (*N-Carbamoylasimilobine*)Likhitwitayawuid, K. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1468 (*glucoside*)**Aspergillomarasmine A****A-10133**

N-[2-(2-Amino-2-carboxyethyl)amino]-2-carboxyaspartic acid, 9CI. Toxin C

[3484-65-9]

 $C_{10}H_{17}N_3O_8$ M 307.260Metab. of *Aspergillus flavus*, found only in young cultures.Phytotoxic to cotton and tomato plants. Mp 230-236° dec. $[\alpha]_D^{20} -48^\circ$ (phosphate buffer, pH 7).Barter, M. *et al*, *Bull. Soc. Chim. Fr.*, 1962, 187.Bogdanovsky, O. *et al*, *Bull. Soc. Chim. Fr.*, 1965, 832 (*synth*)Haenni, A.L. *et al*, *Helv. Chim. Acta*, 1965, **48**, 729 (*struct*)Mikami, Y. *et al*, *Agric. Biol. Chem.*, 1983, **47**, 2693.**Assamicain A****A-10134**

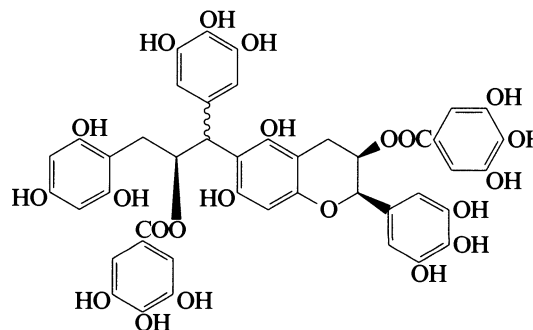
[121795-66-2]

Absolute
configuration $C_{44}H_{36}O_{22}$ M 916.755Isol. from the leaves of *Camellia sinensis* var. *assamica*.Off-white amorph. powder + 3H₂O. $[\alpha]_D^{17} -120.0^\circ$ (c, 1.0 in Me₂CO).

I'-Epimer: [121844-27-7]. Assamicain B

 $C_{44}H_{36}O_{22}$ M 916.755Isol. from leaves of *C. sinensis* var. *assamica*. Off-white amorph. powder + 5H₂O. $[\alpha]_D^{17} -54.3^\circ$ (c, 1.0 in Me₂CO).Hashimoto, F. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 77 (*isol, pmr, cmr*)**Assamicain C****A-10135**

[121795-67-3]

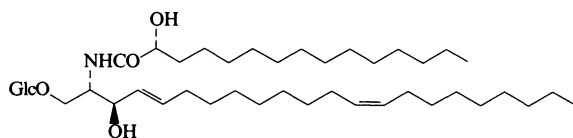
 $C_{44}H_{36}O_{22}$ M 916.755

Derived from the leaves of *Camellia sinensis* var. *assamica*. Off-white amorph. powder + 5H₂O. $[\alpha]_D^{17} + 60.5^\circ$ (c, 1.3 in Me₂CO).

Hashimoto, F. *et al*, *Chem. Pharm. Bull.*, 1989, 37, 77 (*isol*, *pmr*, *cmr*, *synth*)

Asteriacerebroside A**A-10136**

[134178-88-4]

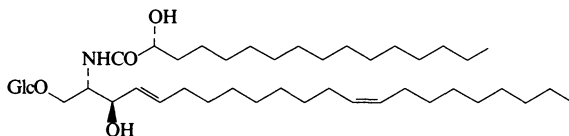
C₄₃H₈₁NO₉ M 756.114

Glycosphingolipid. *Isol.* from the starfish *Asterias amurensis versicolor*. Needles + 4H₂O (MeOH). Mp 182-184°. $[\alpha]_D^{25} + 8.5^\circ$ (c, 0.27 in 1-propanol).

Higuchi, R. *et al*, *Justus Liebigs Ann. Chem.*, 1991, 745 (*isol*, *pmr*, *cmr*, *struct*)

Asteriacerebroside B**A-10137**

[134178-89-5]

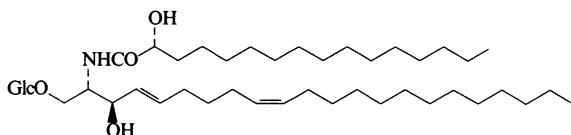
C₄₄H₈₃NO₉ M 770.141

Glycosphingolipid. *Isol.* from the starfish *Asterias amurensis versicolor*. Needles + 3H₂O (MeOH). Mp 178-180°. $[\alpha]_D^{25} + 8.3^\circ$ (c, 0.28 in 1-propanol).

Higuchi, R. *et al*, *Justus Liebigs Ann. Chem.*, 1991, 745 (*isol*, *pmr*, *cmr*, *struct*)

Asteriacerebroside C**A-10138**

[134178-90-8]

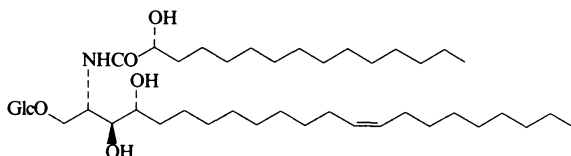
C₄₄H₈₃NO₉ M 770.141

Glycosphingolipid. *Isol.* from the starfish *Asterias amurensis versicolor*. Needles + 3H₂O (MeOH). Mp 183-186°. $[\alpha]_D^{25} + 9.4^\circ$ (c, 0.28 in 1-propanol).

Higuchi, R. *et al*, *Justus Liebigs Ann. Chem.*, 1991, 745 (*isol*, *pmr*, *cmr*, *struct*)

Asteriacerebroside D**A-10139**

[134178-91-9]

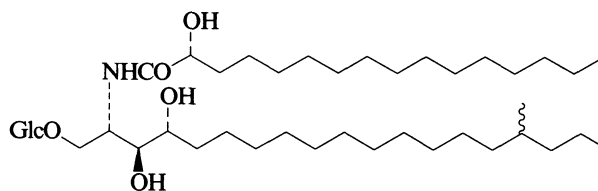
C₄₃H₈₃NO₁₀ M 774.129

Glycosphingolipid. *Isol.* from the starfish *Asterias amurensis versicolor*. Needles + 2H₂O (MeOH). Mp 174-176°. $[\alpha]_D^{25} + 10.5^\circ$ (c, 0.4 in 1-propanol).

Higuchi, R. *et al*, *Justus Liebigs Ann. Chem.*, 1991, 745 (*isol*, *pmr*, *cmr*, *struct*)

Asteriacerebroside E**A-10140**

[134178-92-0]

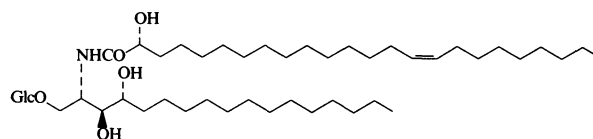
C₄₂H₈₃NO₁₀ M 762.118

Glycosphingolipid. *Isol.* from the starfish *Asterias amurensis versicolor*. Needles + 1H₂O (MeOH). Mp 216-218°. $[\alpha]_D^{25} + 12.2^\circ$ (c, 0.32 in 1-propanol).

Higuchi, R. *et al*, *Justus Liebigs Ann. Chem.*, 1991, 745 (*isol*, *pmr*, *cmr*, *struct*)

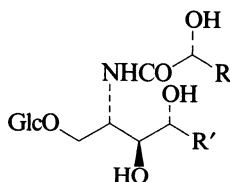
Asteriacerebroside F**A-10141**

[134178-93-1]

C₄₇H₉₁NO₁₀ M 830.237

Glycosphingolipid. *Isol.* from the starfish *Asterias amurensis versicolor*. Needles + 4H₂O (MeOH). Mp 167-169°. $[\alpha]_D^{25} + 12.6^\circ$ (c, 0.33 in 1-propanol).

Higuchi, R. *et al*, *Justus Liebigs Ann. Chem.*, 1991, 745 (*isol*, *pmr*, *cmr*, *struct*)

Astrocerebrosides**A-10142****Astrocerebroside**

A, R = (CH₂)₁₂CH₃, R' = (CH₂)₄CH=CH(CH₂)₁₁CH₃ (Z-)
 B, R = (CH₂)₁₃CH₃, R' = (CH₂)₄CH=CH(CH₂)₁₁CH₃ (Z-)
 C, R = (CH₂)₂₁CH₃, R' = (CH₂)₁₀CH(CH₃)₂

Isol. from CHCl₃/MeOH extract of the starfish *Astropecten latespinus*.

Astrocerebroside A [126665-07-4]

C₄₃H₈₃NO₁₀ M 774.129
 Needles + 1H₂O (MeOH). Mp 188-192°. $[\alpha]_D^{25} + 10.3^\circ$ (c, 1 in 1-propanol).

Astrocerebroside B [122823-41-0]

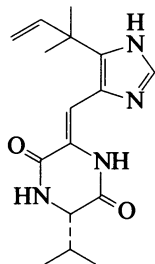
C₄₄H₈₅NO₁₀ M 788.156
 Needles + 3H₂O (MeOH). Mp 198-202°. $[\alpha]_D^{25} + 10.8^\circ$ (c, 1 in 1-propanol).

Astrocerebroside C [122823-47-6]

$C_{47}H_{93}NO_{10}$ M 832.252
 Needles + $2H_2O$ (MeOH). Mp 218-219°. $[\alpha]_D^{25} +10.7^\circ$
 (c, 1 in 1-propanol).

Higuchi, R. *et al*, *Justus Liebigs Ann. Chem.*, 1990, 659.

Aurantiamine
 [143085-86-3]

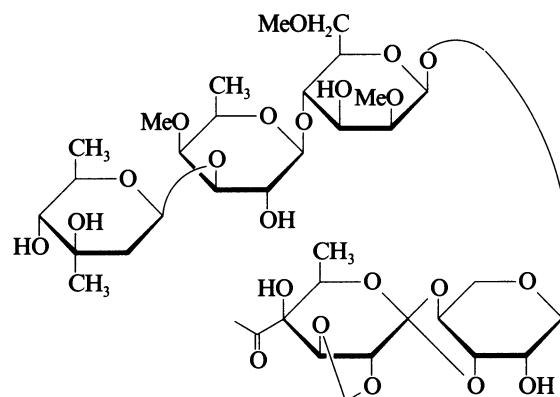


$C_{16}H_{22}N_4O_2$ M 302.375
 Metab. from *Penicillium aurantiogriseum* var.
aurantiogriseum and *P. aurantiogriseum* var.
neochinulatum. Mp 238-239°. $[\alpha]_D^{23} -116^\circ$ (c, 0.5 in
 MeOH).

Larsen, T.O. *et al*, *Phytochemistry*, 1992, **31**, 1613 (*isol, uv, pmr,*
cmr, ms, struct)

Avileurekanose A
 [82278-46-4]

A-10144

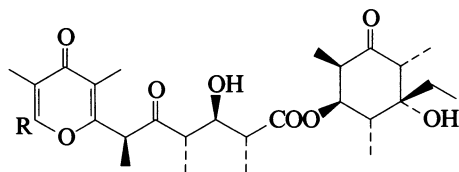


$C_{36}H_{58}O_{22}$ M 842.841
 Metab. product of microorganisms. Needles
 (Me_2CO/Et_2O). Mp 180°.
 Kupfer, E. *et al*, *Helv. Chim. Acta*, 1982, **65**, 3.

B

Baconipyrrone A

[123003-45-2]



R = CH₂CH₃

C₂₉H₄₄O₈ M 520.662

Constit. of the pulmonate mollusc *Siphonaria baconi*. Oil.
[α]_D -82.0° (c, 0.47 in CHCl₃).

Manker, D.C. *et al*, *J. Org. Chem.*, 1989, **54**, 5371 (*isol, pmr, cmr, struct*)

Baconipyrrone B

[123003-46-3]

As Baconipyrrone A, B-10001 with

R = -CH₃

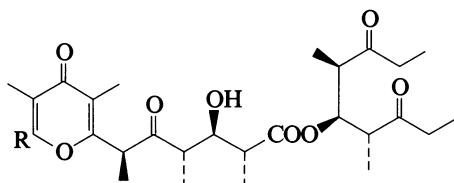
C₂₈H₄₂O₈ M 506.635

Constit. of the pulmonate mollusc *Siphonaria baconi*. Oil.
[α]_D -65.9° (c, 0.66 in CHCl₃).

Manker, D.C. *et al*, *J. Org. Chem.*, 1989, **54**, 5371 (*isol, pmr, cmr, struct*)

Baconipyrrone C

[123003-47-4]



R = CH₂CH₃

C₂₉H₄₄O₈ M 520.662

Constit. of the pulmonate mollusc *Siphonaria baconi*. Oil.
[α]_D -19.0° (c, 0.9 in MeOH).

Manker, D.C. *et al*, *J. Org. Chem.*, 1989, **54**, 5371 (*isol, pmr, cmr, struct*)

Baconipyrrone D

[123003-48-5]

As Baconipyrrone C, B-10003 with

R = -CH₃

C₂₈H₄₂O₈ M 506.635

Constit. of the pulmonate mollusc *Siphonaria baconi*. Oil.
[α]_D -61.7° (c, 1.17 in MeOH).

Manker, D.C. *et al*, *J. Org. Chem.*, 1989, **54**, 5371 (*isol, pmr, cmr, struct*)

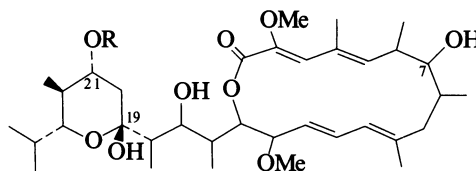
B-10001

Bafilomycin A₁

Updated Entry replacing B-00063

21-O-De(3-carboxy-1-oxo-2-propenyl)-2-demethyl-2-methoxy-21-methylhygrolidin

[88899-55-2]



R = H

C₃₅H₅₈O₉ M 622.838

Macrolide antibiotic. Prod. by *Streptomyces griseus* ssp. *sulphuris*. Active against gram-positive bacteria, yeasts and fungi. Amorph. powder. Mp 103-106° dec.

O¹⁹-Me: [88899-54-1]. *Bafilomycin A₂*

Artifact formed during isolation procedure. Mp 116-119° dec.

O²¹-Me: [82620-99-3]. *Antibiotic L 681110B₁*, *L 681110B₁*, C₃₆H₆₀O₉ M 636.865

Prod. by *S. sp.* MA5038. Active against insects, worms and nematodes.

O²¹-Ac: [88899-58-5]. *Bafilomycin D₁*

Semisynthetic. Shows some antibiotic activity.

O⁷,O²¹-Di-Ac: [88899-57-4]. *Bafilomycin D₁*

Semisynthetic. Shows some antibiotic activity.

O¹⁹-Me, O²¹-Ac: [93460-68-5]. *Bafilomycin D₂*

Semisynthetic. Inactive.

O¹⁹-Me, O⁷,O²¹-di-Ac: [90042-92-5]. *Bafilomycin D₂*

Semisynthetic. Inactive.

O²¹-(α-L-Rhamnopyranoside):

C₄₁H₆₈O₁₃ M 768.980

Prod. by *S. olivaceus*. Shows antifungal props. Powder. Mp 128-131°. [α]_D²⁴ -39.2° (c, 1.83 in CH₂Cl₂).

O¹⁹-Me, O²¹-(2-O-methyl-α-L-rhamnopyranoside): [140681-83-0]. *Antibiotic NK 155141*, *NK 155141*

C₄₃H₇₂O₁₃ M 797.034

Prod. by *Streptomyces sp.* NK155141. Antitumour agent. Mp 130-131°.

Eur. Pat., 50 964, (1982); *CA*, **97**, 90425 (*isol, props*)

Heusers, O.D. *et al*, *J. Am. Chem. Soc.*, 1983, **105**, 3672 (*struct*)

Werner, G. *et al*, *Tetrahedron Lett.*, 1983, **24**, 5193.

Ger. Pat., 3 310 533, (1984); *CA*, **102**, 22799 (*props*)

Werner, G. *et al*, *J. Antibiot.*, 1984, **37**, 110 (*isol, struct, props, ms, nmr*)

Huang, L. *et al*, *J. Antibiot.*, 1984, **37**, 970 (*isol*)

Meyer, M. *et al*, *Helv. Chim. Acta*, 1985, **68**, 83 (*isol*)

Baker, G.H. *et al*, *Tetrahedron Lett.*, 1987, **28**, 5565 (*cryst struct*)

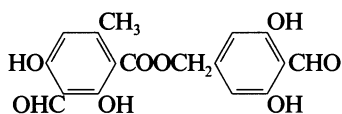
Everett, J.R. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1990, 717 (*pmr, cmr*)

Japan. Pat., 91 191 788, (1991); *CA*, **116**, 192621 (*NK 155141*)

B-10004

Barbatolin

[114973-13-6]

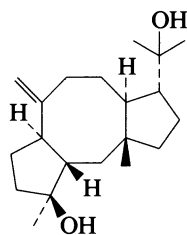
 $C_{17}H_{14}O_8$ M 346.293

Constit. of the lichen *Bryoria nadvornikiana*. Hydrol. prod. of Barbatolic acid, B-00099. Needles ($Me_2CO/CHCl_3$ /hexane). Mp 219-221° dec.

Elix, J.A. *et al*, *Aust. J. Chem.*, 1987, **40**, 1841 (*isol, synth*)

Barbifusicoccin A

B-10007

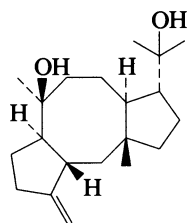
 $C_{20}H_{34}O_2$ M 306.487

Constit. of *Barbilophozia floerkei*. Oil. $[\alpha]_D^{22} -2.0^\circ$ (c, 0.77 in $CHCl_3$).

Tori, M. *et al*, *Phytochemistry*, 1993, **34**, 181 (*isol, pmr, cmr*)

Barbifusicoccin B

B-10008

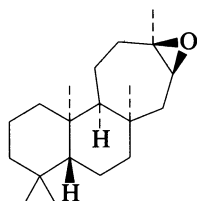
 $C_{20}H_{34}O_2$ M 306.487

Constit. of *Barbilophozia floerkei*. Oil. $[\alpha]_D^{22} +45.0^\circ$ (c, 1.27 in $CHCl_3$).

Tori, M. *et al*, *Phytochemistry*, 1993, **34**, 181 (*isol, pmr, cmr*)

Barekoxide

[145458-09-9]

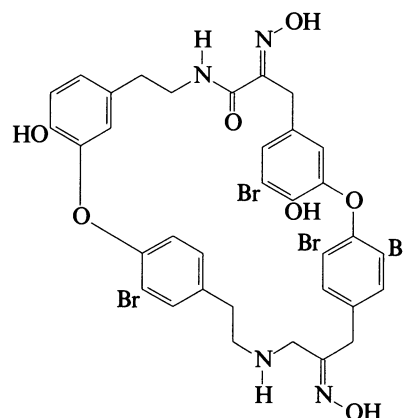
 $C_{20}H_{34}O$ M 290.488

Constit. of *Chelonaplysilla erecta*. Oil.

Rudi, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1408 (*isol, pmr, cmr*)

Bastadin 12

[134981-78-5]

 $C_{34}H_{30}Br_4N_4O_7$ M 926.250

Constit. of the sponge *Ianthella basta*. Powder. Mp 177-179°.

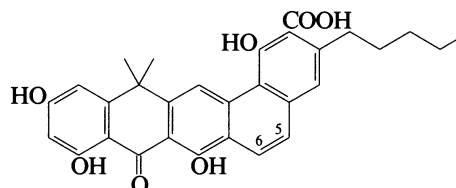
Butler, M.S. *et al*, *Aust. J. Chem.*, 1991, **44**, 287 (*isol, pmr, cmr*)

Benastatin A

B-10011

8,13-Dihydro-1,7,9,11-tetrahydroxy-13,13-dimethyl-8-oxo-3-pentylbenzo[a]naphthacene-2-carboxylic acid

[138968-85-1]

 $C_{30}H_{28}O_7$ M 500.547

Prod. by *Streptomyces* sp. MI384-DF12. Inhibitor of glutathione S-transferase. Yellow powder + $1H_2O$ (as Ca salt). Mp 170-173° dec. (Ca salt).

5,6-Dihydro: [138968-86-2]. **Benastatin B**

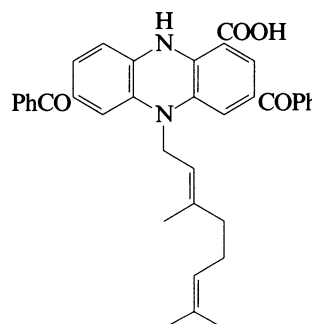
 $C_{30}H_{30}O_7$ M 502.563

From *S* sp. MI384-DF12. Inhibitor of glutathione S-transferase. Yellow powder + $\frac{1}{2}H_2O$ (as Ca salt). Mp 210-212° dec. (Ca salt).

Aoyagi, T. *et al*, *J. Antibiot.*, 1992, **45**, 1385, 1391 (*isol, pmr, cmr, cryst struct, props*)

Benthophoenin

B-10012

 $C_{37}H_{34}N_2O_4$ M 570.687

Isol. from the mycelium of *Streptomyces prunicolor*. Free radical scavenger. Red powder. Mp 189-190°.

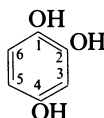
Shin-ya, K. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1255 (isol, uv, ir, pmr, cmr, struct)

1,2,4-Benzenetriol, 9CI, 8CI**B-10013**

Updated Entry replacing B-00234

*1,2,4-Trihydroxybenzene. Hydroxyhydroquinone.**Hydroxyquinol*

[533-73-3]

 $C_6H_6O_3$ M 126.112

Constit. of the sponge *Axinella polycapella*. Also isol. from the fruiting bodies of *Gomphidius* spp. Antibacterial agent. Used as 1% aq. soln. for photometric detn. of Os. Plates (Et₂O). Sol. H₂O. Mp 140.5° subl. pK_{a1} 9.08; pK_{a2} 11.82 (20°).

▷ DC4200000.

Picrate: Orange-red needles. Mp 96°.*Tri-Ac*: [613-03-6]. $C_{12}H_{12}O_6$ M 252.223

Cryst. (EtOH). Mp 96-97°.

1-Me ether: [6100-60-3]. *4-Methoxy-1,3-benzenediol. 4-Methoxyresorcinol* $C_7H_8O_3$ M 140.138Prisms (C₆H₆). Mp 66-67°.*1-Me ether, 2,4-di-Ac*: $C_{11}H_{12}O_5$ M 224.213

Prisms (MeOH). Mp 62-64°.

2-Me ether: [824-46-4]. *2-Methoxy-1,4-benzenediol.**Methoxyhydroquinone. Methoxyquinol* $C_7H_8O_3$ M 140.138Plates (H₂O or C₆H₆). Mp 88° (84°).*2-Me ether, 1,4-di-Ac*: $C_{11}H_{12}O_5$ M 224.213

Needles (MeOH). Mp 93-94°.

2-Me ether, 1-O- β -D-glucopyranoside: [31427-08-4]. $C_{13}H_{18}O_8$ M 302.280

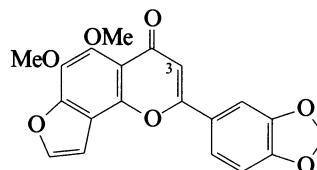
Found in oat seedings. Mp 202°. The struct. of this as the 1- rather than the 4-glucoside has been disputed.

2-Me ether, 1-O-(6-O-3,4,5-trihydroxybenzoyl- β -D-glucopyranoside): [125288-20-2].*2-Methoxy-4-hydroxyphenyl 1-O-(6-O-galloyl- β -D-glucopyranoside)* $C_{20}H_{22}O_{12}$ M 454.387Isol. from leaves of *Mallotus japonicus*. Amorph. powder + $\frac{1}{2}$ H₂O. $[\alpha]_D^{13}$ –36.6° (c, 1.3 in Me₂CO aq.).*2-Me ether, 4-O-(6-O-3,4,5-trihydroxybenzoyl- β -D-glucopyranoside)*: [109194-55-0].*3-Methoxy-4-hydroxyphenyl 1-O-(6-O-galloyl- β -D-glucopyranoside)* $C_{20}H_{22}O_{12}$ M 454.387Tannin constit. of *M. japonicus*, *Quercus mongolica* and *Q. acutissima*. Amorph. powder + 1H₂O. $[\alpha]_D^{25}$ –31.3° (c, 0.5 in Me₂CO).*2-Me ether, 4-O-[2,6-bis(3,4,5-trihydroxybenzoyl)- β -D-glucopyranoside]*: [125288-21-3].*3-Methoxy-4-hydroxyphenyl 1-O-2,6-di-O-galloyl- β -D-glucopyranoside* $C_{27}H_{26}O_{16}$ M 606.493Constit. of the leaf of *M. japonicus*. Cryst. powder + 3H₂O (H₂O). Mp 244-246°. $[\alpha]_D^{26}$ –46.3° (c, 0.5 in Me₂CO).*2-Me ether, 4-O-[2,3,6-tris(3,4,5-trihydroxybenzoyl)- β -D-glucopyranoside]*: [125288-22-4].*3-Methoxy-4-hydroxyphenyl 1-O-(2,3,6-tri-O-galloyl- β -D-glucopyranoside)* $C_{34}H_{30}O_{20}$ M 758.599Tannin constit. of the leaf of *M. japonicus*. Amorph.powder. $[\alpha]_D^{26}$ –103.5° (c, 0.5 in Me₂CO).*2-Me ether, 4-O-(6-O-D-apio- β -D-furanosyl- β -D-glucopyranoside)*: [137319-13-2].**Osmantolide** $C_{18}H_{26}O_{12}$ M 434.396Isol. from the leaves of *Osmanthus asiaticus*. Amorph.powder. $[\alpha]_D$ –70.1° (c, 1.9 in MeOH).*Tri-Me ether*: [135-77-3]. *1,2,4-Trimethoxybenzene* $C_9H_{12}O_3$ M 168.192

Liq. Bp 247°.

Org. Synth., Coll. Vol., 1, 1932, 317 (*deriv*)*Kirk-Othmer Encycl. Chem. Technol.*, 2nd Ed., Wiley, N.Y., 1963-1971, **16**, 190 (*rev*)Wawrzyczek, W. *et al*, *Fresenius' Z. Anal. Chem.*, 1967, **228**, 433*(detn, Os)*von Ardenne, R. *et al*, *Z. Naturforsch.*, C, 1974, **29**, 446; 1981, **36**,488 (*isol*)Chatterjee, A. *et al*, *Tetrahedron*, 1976, **32**, 2407 (*synth*)Wratten, S.J. *et al*, *Experientia*, 1981, **37**, 13 (*isol*)Saijo, R. *et al*, *Phytochemistry*, 1989, **28**, 2443 (*galloylglucosides*)Kikuchi, M. *et al*, *Phytochemistry*, 1991, **30**, 3147 (*Osmantolide*)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th

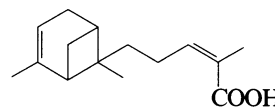
Ed., Van Nostrand-Reinhold, 1992, BBU250.

2-(1,3-Benzodioxol-5-yl)-5,6-dimethoxy-4H-furo[2,3-h]-1-benzopyran-4-one, 9CI**B-10014***5,6-Dimethoxy-3',4'-methylenedioxyfuran[7,8:2'',3'']flavone* [77970-09-3] $C_{20}H_{14}O_7$ M 366.326Isol. from the roots of *Derris araripensis*. Cryst. (EtOH). Mp 233°.*3-Methoxy*: [77970-08-2]. *3,5,6-Trimethoxy-3',4'-methylenedioxyfuran[2'',3'':7,8]flavone. 5,6-***Dimethoxypongapin** $C_{21}H_{16}O_8$ M 396.353Isol. from the roots of *D. araripensis*. Cryst. (EtOH).

Mp 212°.

do Nascimento, M.C. *et al*, *Phytochemistry*, 1981, **20**, 147 (*isol*) **α -Bergamotenic acid****B-10015**

[124439-27-6]

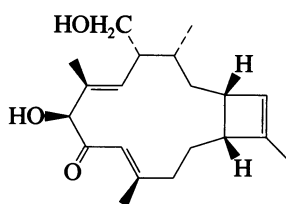
 $C_{15}H_{22}O_2$ M 234.338

Constit. of East Indian sandalwood oil. Oil.

Nikiforov, A. *et al*, *Justus Liebigs Ann. Chem.*, 1990, 119 (*isol, pmr*)

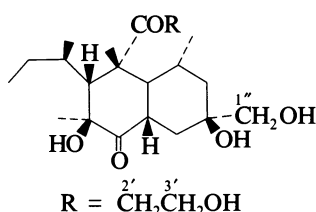
Bershacolone

B-10016

C₂₀H₃₀O₃ M 318.455Constit. of *Maprounea africana*. Glass. [α]_D²⁴ + 370° (c, 0.2 in CHCl₃).Bernart, M.W. et al, *Tetrahedron Lett.*, 1993, **34**, 4461 (*isol, pmr, cmr*)

Betaenone D

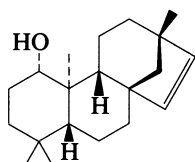
B-10017

Updated Entry replacing B-00306
[88899-16-5]C₂₁H₃₆O₆ M 384.512Metab. of *Phoma betae*. Phytotoxin. Syrup. [α]_D²⁴ 0° (c, 0.98 in EtOH).1''-Deoxy, 3'-Ac: [85269-24-5]. **Betaenone F**C₂₃H₃₈O₆ M 410.550Metab. of *P. betae*. Syrup.2',3'-Didehydro, 1''-deoxy: [85269-25-6]. **Betaenone C**C₂₁H₃₄O₅ M 366.497Metab. of *P. betae*. Phytotoxin. Powder. [α]_D²⁶ - 38.6° (c, 4.15 in CHCl₃).Ichihara, A. et al, *Agric. Biol. Chem.*, 1983, **47**, 2965.Oikawa, H. et al, *Agric. Biol. Chem.*, 1984, **48**, 2603 (*abs config*)Ichihara, A. et al, *Tetrahedron Lett.*, 1989, **30**, 4551 (*synth, deriv*)

15-Beyeren-1-ol

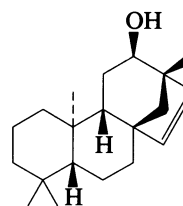
B-10018

Updated Entry replacing B-00339

C₂₀H₃₂O M 288.472**(ent-1β)-form**Constit. of *Erythroxyton australe*. Cryst. (MeOH). Mp 119-121°. [α]_D + 23° (CH₂Cl₂).1-Ketone: [39056-75-2]. **ent-15-Beyeren-1-one**. 15-Stachen-1-oneC₂₀H₃₀O M 286.456Constit. of the root of *E. australe*. Cryst. (MeOH). Mp 77-78°. [α]_D - 114° (c, 1.88 in CHCl₃).1-Ketone, 15β,16β-epoxide: [39036-23-2]. **ent-15α,16α-Epoxy-1-beyeranone**C₂₀H₃₀O₂ M 302.456Minor constit. of the roots of *E. australe*. Needles (petrol). Mp 131-132°. [α]_D - 36° (c, 1.72 in CHCl₃).Connolly, J.D. et al, *J. Chem. Soc., Perkin Trans. 1*, 1972, 1996.
Ansell, S.M. et al, *Phytochemistry*, 1993, **32**, 937.

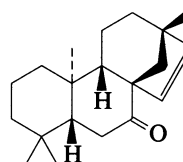
15-Beyeren-12-ol

B-10019

C₂₀H₃₂O M 288.472**(ent-12α)-form** [150036-04-7]Constit. of *Erythroxyton zambesiicum*. Gum. [α]_D + 1° (CH₂Cl₂).Ac: Cryst. (MeOH). Mp 114-116°. [α]_D - 56° (CH₂Cl₂).Ansell, S.M. et al, *Phytochemistry*, 1993, **32**, 953 (*isol, pmr, cmr*)

15-Beyeren-7-one

B-10020

C₂₀H₃₀O M 286.456**ent-form** [150134-36-4]Constit. of *Erythroxyton argentinum* and *E. rotundifolium*. Needles (MeOH). Mp 152-154°. [α]_D - 12° (CH₂Cl₂).Ansell, S.M. et al, *Phytochemistry*, 1993, **32**, 953 (*isol, pmr, cmr*)

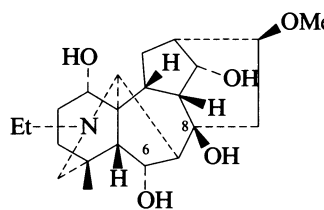
Bicolorine

B-10021

Updated Entry replacing B-00353

Alkaloid B

[41478-10-8]

C₂₂H₃₅NO₅ M 393.522Minor alkaloid from *Delphinium bicolor* (Ranunculaceae).Hydrolyt. prod. of Bicoloridine. Mp 190-191°. [α]_D²⁴ + 16° (CHCl₃).O⁶-Ac: **Bicolorine 6-O-acetate**C₂₄H₃₇NO₆ M 435.559Alkaloid from *D. bicolor* (Ranunculaceae). Cryst. (CH₂Cl₂/hexane). Mp 165-167°. [α]_D + 19° (c, 0.2 in CHCl₃).O¹⁴-Ac: [130774-04-8]. **Bicolorine 14-O-acetate**. Alkaloid HC₂₄H₃₇NO₆ M 435.559Alkaloid from *D. nuttallianum* (Ranunculaceae).O¹-Me: [119459-58-4]. **Regaline**C₂₃H₃₇NO₅ M 407.549

Alkaloid from epigeal parts of *Consolida regalis* ssp. *paniculata* (Ranunculaceae). The CA abstr. diag. omits the 14-OH group.

O⁸-Me, O⁶-Ac: [41710-20-7]. **Bicoloridine**. Alkaloid A
C₂₅H₃₉NO₆ M 449.586

Minor alkaloid from *D. bicolor* (Ranunculaceae). Also isol. from the aerial parts of *D. peregrinum* var. *elongatum* collected during flowering. Noncryst. [α]_D²⁴ +10° (CHCl₃).

O⁸-Me, O⁶-Ac; B,HI: Cryst. (MeOH/Et₂O). Mp >240°.

6-Epimer, O⁶-Me, O¹,O¹⁴-dibenzoyl: Mp 178-181°.

C₂₃H₃₇NO₅ M 407.549

Alkaloid from *D. pentagynum* (Ranunculaceae). Mp 150-154°. [α]_D +43° (c, 0.12 in EtOH).

6-Epimer, O⁶-Me, O¹,O¹⁴-dibenzoyl: Mp 178-181°.

O¹,O⁸-Di-Me, O⁶-Ac: [113689-38-6]. **Peregrine**

C₂₆H₄₁NO₆ M 463.613

Alkaloid from aerial parts of *D. peregrinum* var. *elongatum* (Ranunculaceae). Cryst. (EtOAc/hexane). Mp 124-125°. [α]_D +12° (c, 0.34 in EtOH).

O¹,O⁸,O¹⁴-Tri-Me, O⁶-Ac: **14-O-Methylperegrine**

C₂₇H₄₃NO₆ M 477.640

Alkaloid from aerial parts of *D. gueneri* (Ranunculaceae). [α]_D²² -28.9° (c, 0.2 in MeOH).

O¹,O⁸,O¹⁴-Tri-Me, O⁶-Ac, N-de-Et: **N-Deethyl-14-O-methylperegrine**

C₂₅H₃₉NO₆ M 449.586

Alkaloid from aerial parts of *D. gueneri* (Ranunculaceae). [α]_D²² -38.4° (c, 0.1 in MeOH).

Jones, A.J. *et al*, *Tetrahedron Lett.*, 1972, 4351 (*isol*)

Jones, A.J. *et al*, *Can. J. Chem.*, 1973, **51**, 486 (*isol*)

Pelletier, S.W. *et al*, *Tetrahedron Lett.*, 1976, 3025 (*cmr, struct*)

Codding, P.W. *et al*, *Tetrahedron Lett.*, 1980, **21**, 127 (*config*)

Codding, P.W. *et al*, *Acta Crystallogr., Sect. B*, 1981, **37**, 379 (*cryst struct, Bicoloridine*)

González, A.G. *et al*, *Phytochemistry*, 1982, **21**, 1781 (*Dihydropentagynine*)

Kulanthaivel, P. *et al*, *Phytochemistry*, 1986, **25**, 1511 (*Bicolorine 6-O-acetate*)

Sener, B. *et al*, *CA*, 1988, **110**, 111674g (*Regaline*)

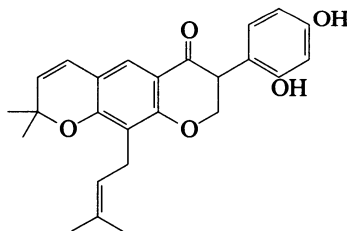
de la Fuente, G. *et al*, *Heterocycles*, 1988, **27**, 1 (*Bicoloridine, Peregrine*)

Bai, Y. *et al*, *Heterocycles*, 1990, **31**, 1233 (*Bicolorine 14-O-acetate*)

Ulubelen, A. *et al*, *Phytochemistry*, 1993, **33**, 213 (*14-O-Methylperegrine, N-Deethyl-14-O-methylperegrine*)

Bidwillon B**B-10022**

2',4'-Dihydroxy-6'',6''-dimethyl-8-prenylpyrano(2'',3'':7,6) isoflavanone



C₂₅H₂₆O₅ M 406.477

(±)-**form** [147742-11-8]

Constit. of the root bark of *Erythrina x bidwilli*.

Amorph. powder.

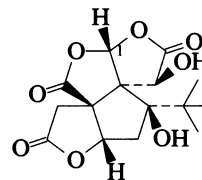
Iinuma, M. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2749 (*isol, struct*)

Bilobalide A**B-10023**

Updated Entry replacing B-00397

Bilobalide

[33570-04-6]



C₁₅H₁₈O₈ M 326.302

Constit. of leaves of *Ginkgo biloba*. Cryst. (H₂O). Mp >300°. [α]_D²⁰ -66.6°. Component of commercially available *Ginkgo biloba* extract (GBE).

Weinges, K. *et al*, *Justus Liebigs Ann. Chem.*, 1969, **724**, 214; 1972, **759**, 158 (*isol, pmr*)

Nakanishi, K. *et al*, *J. Am. Chem. Soc.*, 1971, **93**, 3544 (*isol, struct*)

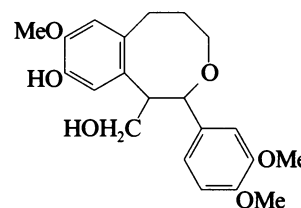
Corey, E.J. *et al*, *J. Am. Chem. Soc.*, 1987, **109**, 7534 (*synth*)

Corey, E.J. *et al*, *Tetrahedron Lett.*, 1988, **29**, 3423 (*synth*)

Crimmins, M.T. *et al*, *J. Am. Chem. Soc.*, 1992, **114**, 5445; 1993, **115**, 3146 (*synth*)

Biondinin A**B-10024**

[142942-84-5]



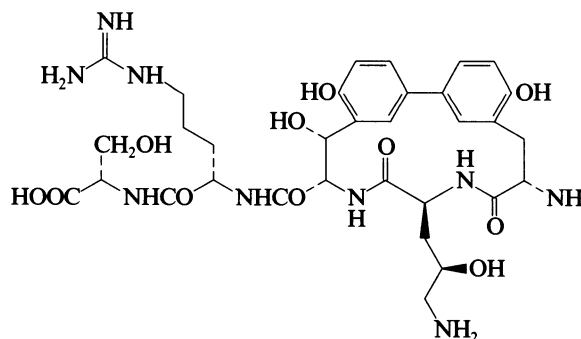
C₂₁H₂₆O₆ M 374.433

Neolignan. Isol. from the flower buds of *Magnolia biondii*. Oil.

Ma, Y. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 121 (*isol, ms, ir, pmr, cmr*)

Biphenomycin C**B-10025**

[147139-55-7]

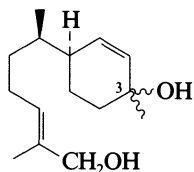


C₃₂H₄₅N₉O₁₁ M 731.761

Cyclic peptide antibiotic. Incorrect MF given in paper. Prod. by *Streptomyces griseorubiginosus*. Precursor of Biphenomycin A, B-00406.

B,3HCl: Needles. Mp 195-198° dec. [α]_D²⁰ -32.0° (c, 0.1 in 0.1M HCl).

Ezaki, M. *et al*, *J. Antibiot.*, 1993, **46**, 135 (*isol, pmr, cmr, struct*)

1,10-Bisaboladiene-3,12-diol**B-10026** $C_{15}H_{26}O_2$ M 238.369

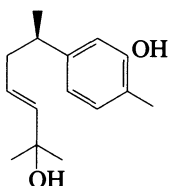
12-Ac: [147783-27-5].

 $C_{17}H_{28}O_3$ M 280.406Constit. of *Cousinia canescens*. Oil. $[\alpha]_D -20^\circ$ (c, 2.8 in $CHCl_3$).

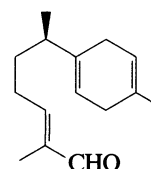
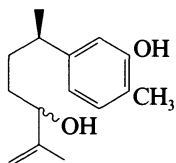
3-Epimer, 12-Ac: [147743-23-5].

 $C_{17}H_{28}O_3$ M 280.406Constit. of *C. canescens*. Oil. $[\alpha]_D -14.2^\circ$ (c, 3.8 in $CHCl_3$).Marco, J.A. et al, *Phytochemistry*, 1993, **32**, 395 (isol, pmr, cmr)

9,10-Dihydro: [4179-20-8]. 2-Methyl-6-(4-methylphenyl)-4-heptanone. 1,3,5-Bisabolatrien-9-one. Dihydro-ar-turmerone

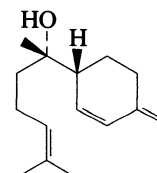
 $C_{15}H_{22}O$ M 218.338Oil. $Bp_1 115^\circ$. $[\alpha]_D +31^\circ$ (c, 7.2 in $CHCl_3$).Rupe, H. et al, *Helv. Chim. Acta*, 1936, **19**, 569 (isol)Honwad, V.K. et al, *Tetrahedron*, 1964, **20**, 2921; 1965, **21**, 2593 (abs config, synth, pmr)Rao, G.S.K. et al, *Can. J. Chem.*, 1968, **46**, 1467 (synth)Grieco, P.A. et al, *J. Org. Chem.*, 1973, **38**, 2909 (synth)Kashima, C. et al, *Bull. Chem. Soc. Jpn.*, 1979, **52**, 1735 (synth, pmr)Gosselin, P. et al, *J. Org. Chem.*, 1979, **44**, 2807 (synth)Meyers, A.I. et al, *Tetrahedron Lett.*, 1979, 2749 (synth)El Jazouli, M. et al, *J. Chem. Soc., Chem. Commun.*, 1985, 1598 (synth)Motoyoshiya, J. et al, *J. Org. Chem.*, 1985, **50**, 1326 (synth)Gharpure, M.M. et al, *Indian J. Chem., Sect. B*, 1986, **25**, 1214 (synth)Strunz, G.M. et al, *Can. J. Chem.*, 1992, **70**, 1317 (synth)**1,3,5,9-Bisabolatetraene-2,11-diol****B-10027** $C_{15}H_{22}O_2$ M 234.338Constit. of *Iostephane heterophylla*. Yellow oil. $[\alpha]_D -20^\circ$ (c, 0.21 in MeOH).Aguilar, M.I. et al, *Phytochemistry*, 1993, **33**, 1161 (isol, pmr, cmr)**2,5,10-Bisabolatrien-12-al****B-10030**

Julaceal

 $C_{15}H_{22}O$ M 218.338Constit. of *Anthelia julacea*. Oil. $[\alpha]_D -24.4^\circ$ (c, 0.74 in $CHCl_3$).Nagashima, F. et al, *Phytochemistry*, 1993, **34**, 1341 (isol, pmr, cmr)**1,3,5,11-Bisabolatetraene-2,10-diol****B-10028** $C_{15}H_{22}O_2$ M 234.338Constit. of *Iostephane heterophylla*. Yellow oil. $[\alpha]_D -5^\circ$ (c, 0.6 in MeOH).Aguilar, M.I. et al, *Phytochemistry*, 1993, **33**, 1161 (isol, pmr, cmr)**1,3(15),10-Bisabolatrien-7-ol****B-10031**

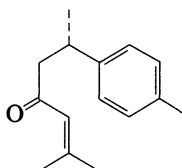
Sesquiphellandren-7-ol

[149067-96-9]

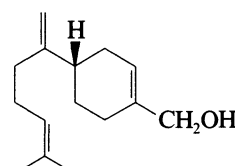
 $C_{15}H_{24}O$ M 220.354Constit. of *Artemisia sieberi*.Weyerstahl, P. et al, *Justus Liebigs Ann. Chem.*, 1993, 111 (isol, pmr, cmr)**1,3,5,10-Bisabolatetraen-9-one****B-10029**

Updated Entry replacing B-00457

2-Methyl-6-(4-methylphenyl)-2-hepten-4-one, 9CI. ar-Turmerone. Dehydroturmerone

 $C_{15}H_{20}O$ M 216.322**(R)-form** [532-65-0]Constit. of essential oil from *Curcuma longa*, *C. amada* and *C. domestica*. Pale-yellow oil. $Bp_{10} 159-160^\circ$. $[\alpha]_D^{20} +82.21^\circ$.Semicarbazone: Cryst. (C_6H_6). Mp 106° .**2,7(14),10-Bisabolatrien-15-ol****B-10032** β -Bisabolanol

[147126-90-7]

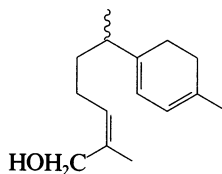
 $C_{15}H_{24}O$ M 220.354Constit. of *Neocallitropis pancheri*. Oil. $[\alpha]_D^{25} -52^\circ$ (c, 0.31 in $CHCl_3$).15-Aldehyde: [147029-14-9]. 2,7(14),10-Bisabolatrien-15-al. β -Bisabolanal

$C_{15}H_{22}O$ M 218.338
 Constit. of *N. pancheri*. Oil. $[\alpha]_D^{25} -45^\circ$ (c. 0.28 in $CHCl_3$).

Raharivelomanana, P. et al, *J. Nat. Prod. (Lloydia)*, 1993, 56, 272
 (isol, pmr, cmr)

3,5,10-Bisabolatrien-12-ol
 γ -Curcumen-12-ol

B-10033



$C_{15}H_{24}O$ M 220.354
 Constit. of *Pulicaria gnaphaloides*. Oil.

Ac:

$C_{17}H_{26}O_2$ M 262.391
 Constit. of *P. gnaphaloides*.

2-Methylpropanoyl:

$C_{19}H_{30}O_2$ M 290.445
 Constit. of *P. gnaphaloides*.

2-Methylbutanoyl:

$C_{20}H_{32}O_2$ M 304.472
 Constit. of *P. gnaphaloides*.

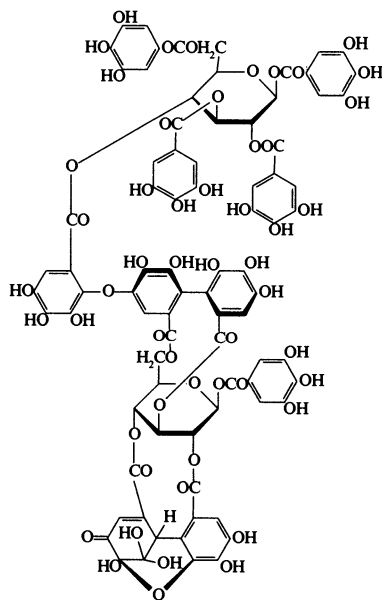
3-Methylbutanoyl:

$C_{20}H_{32}O_2$ M 304.472
 Constit. of *P. gnaphaloides*.

Weyerstahl, P. et al, *Justus Liebigs Ann. Chem.*, 1993, 1117 (isol, pmr, cmr)

Bischofianin

B-10034



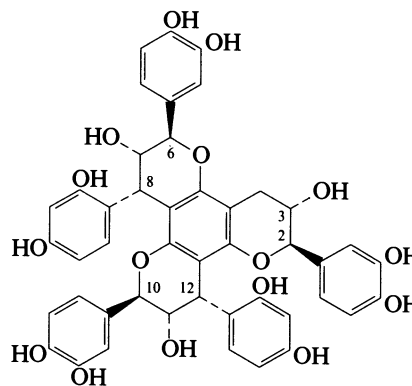
$C_{82}H_{58}O_{53}$ M 1891.328

In equilib. with the alternative dibenzofuranoid isomer.
 Ellagitannin from *Bischofia javanica*.

Okuda, T. et al, *Heterocycles*, 1990, 30, 1195 (struct)

4,8-Bis(2,4-dihydroxyphenyl)2,6,10-tris(3,4-dihydroxyphenyl)-3,4,7,8,11,12-hexahydro-2H,6H,10H-benzo[1,2-b,3,4-b',5,6-b'']tripyran-3,7,11-triol, 9CI
 [102258-24-2]

B-10035



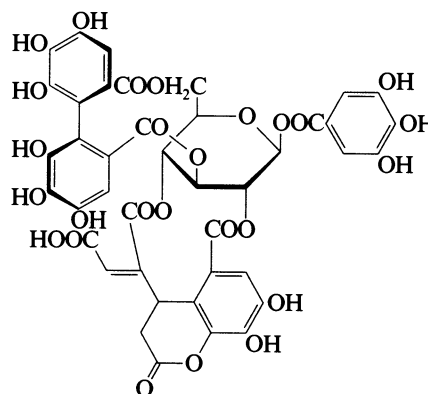
$C_{45}H_{38}O_{16}$ M 834.786

Constit. of heartwood of *Colophospermum mopane*.

Steynberg, J.P. et al, *J. Chem. Soc., Perkin Trans. 1*, 1990, 235
 (isol)

Bixanin

B-10036



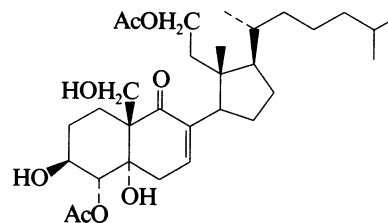
$C_{41}H_{28}O_{26}$ M 936.657

Isol. from *Euphorbia thymifolia*. Off-white amorph. powder. $[\alpha]_D^{20} -63.9^\circ$ (c. 0.8 in MeOH).

Lee, S.-H. et al, *Phytochemistry*, 1990, 29, 3621 (struct, pmr)

Blancasterol

B-10037



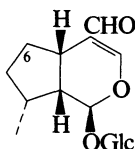
$C_{31}H_{50}O_8$ M 550.731

Constit. of a *Pleraplysilla* sp. Amorph. solid.

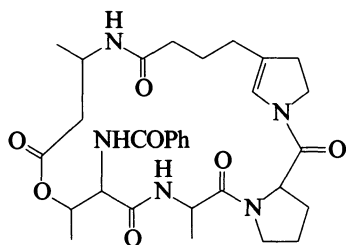
Pika, J. et al, *Tetrahedron*, 1993, 49, 8757 (isol, pmr, cmr)

Borovoluboside**B-10038** $C_{37}H_{54}O_{14}$ M 722.825Struct. unknown. Prob. steroidal glycoside. Isol. from bulbs of *Bowiea volubilis*. Mp 308-314°. $[\alpha]_D^{25} + 24^\circ$ (MeOH).Tschesche, R. et al, *Justus Liebigs Ann. Chem.*, 1964, **674**, 176.**Boschnaloside****B-10039**

[72963-55-4]

 $C_{16}H_{24}O_8$ M 344.361Isol. from *Boschniakia rossica*. Cryst. (Me₂CO). Mp 102-103°. $[\alpha]_D^{16} - 134.5^\circ$ (c, 1 in MeOH).Murai, F. et al, *Chem. Pharm. Bull.*, 1980, **28**, 1730 (isol, struct)
Damtoft, S. et al, *Phytochemistry*, 1981, **20**, 2717 (cmr)**Bovocryptoside****B-10040** $C_{31}H_{42}O_{11}$ M 590.666Struct. not fully known. A bufadienolide glycoside containing L-thevetose. MF may be $C_{31}H_{44}O_{11}$. Isol. from bulbs of *Bowiea volubilis*. Mp 334-339°. $[\alpha]_D^{21} + 31^\circ$ (MeOH).Tschesche, R. et al, *Justus Liebigs Ann. Chem.*, 1964, **674**, 176.**Bovoneoside****B-10041** $C_{31}H_{44}O_{11}$ M 592.682Struct. unknown. Steroidal glycoside. Isol. from bulbs of *Bowiea volubilis*. Mp 300-308°. $[\alpha]_D^{26} + 65^\circ$ (Py).Tschesche, R. et al, *Justus Liebigs Ann. Chem.*, 1964, **674**, 176.**Bovoruboside****B-10042** $C_{31}H_{42}O_{11}$ M 590.666Struct. unknown. Prob. steroidal glycoside. Isol. from bulbs of *Bowiea volubilis*. Mp 222-230°. $[\alpha]_D^{26} + 5^\circ$ (MeOH).Tschesche, R. et al, *Justus Liebigs Ann. Chem.*, 1964, **674**, 176.**Brevigellin****B-10043**

[79432-16-9]

 $C_{31}H_{41}N_5O_7$ M 595.694Cyclodepsipeptide antibiotic. Prod. by *Penicillium brevicompactum*. Glass, powder or gel. Mp 209-212°.McCorkindale, N.J. et al, *Tetrahedron*, 1981, **37**, 1795 (isol)**1-Bromo-1,3-dichloro-2-propanone, 9CI****B-10044***1-Bromo-1,3-dichloroacetone*
[1578-17-2]ClCH₂COCHBrCl $C_3H_3BrCl_2O$ M 205.866

(±)-form

Component of the red alga *Asparagopsis armata*. Liq. Bp₁₁ 80-82°. n_D^{25} 1.5296.Rappe, C. et al, *Ark. Kemi*, 1965, **24**, 105 (synth)
McConnell, O. et al, *Phytochemistry*, 1977, **16**, 367 (isol, glc)**3-Bromo-1,1-dichloro-2-propanone, 9CI****B-10045***3-Bromo-1,1-dichloroacetone*
[1578-16-1]Cl₂CHCOCH₂Br $C_3H_3BrCl_2O$ M 205.866Component of the red algae *Asparagopsis armata* and *Falkenbergia rufolanosa*. Needles. Mp 30-31°. Bp₂₅ 92-93°, Bp₉ 78°. n_D^{25} 1.5197.

Hydrate: Mp 54-57°.

Semicarbazone: Prisms (EtOH aq.). Mp 131°.

King, F.E. et al, *J. Chem. Soc.*, 1952, 2144 (synth)Polaczkowa, W. et al, *Pol. J. Chem. (Rocz. Chem.)*, 1956, **30**, 119 (synth)Rappe, C. et al, *Ark. Kemi*, 1965, **24**, 105 (synth)Mironov, V.F. et al, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1965, 2193 (synth, ir)McConnell, O. et al, *Phytochemistry*, 1977, **16**, 367 (isol, gc-ms)
Combaut, G. et al, *Phytochemistry*, 1978, **17**, 1661 (isol, gc-ms)**1-Bromo-3-iodo-2-propanone, 9CI****B-10046***1-Bromo-3-iodoacetone*
[59227-98-4]BrCH₂COCH₂I C_3H_4BrIO M 262.873Minor component of the essential oil of the edible Hawaii red alga, *Asparagopsis taxiformis*.Burreson, B.J. et al, *J. Agric. Food Chem.*, 1976, **24**, 856 (synth, gc-ms, isol)**1-Bromo-1,3,3-trichloro-2-propanone, 9CI****B-10047***1-Bromo-1,3,3-trichloroacetone*
[62874-82-2]Cl₂CHCOCHBrCl $C_3H_2BrCl_3O$ M 240.310

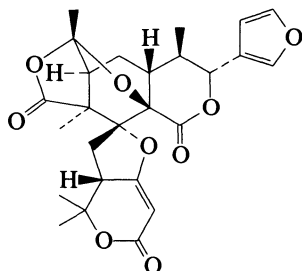
Hydrate: Scaly cryst. Mp 52-53°.

(±)-form

Minor component of the red algae *Asparagopsis armata* and *Falkenbergia rufolanosa*. Liq. Bp₁₇ 85-95°.U.K. Pat., 823, 827, (1959); CA, **54**, 5713c (synth)McConnell, O. et al, *Phytochemistry*, 1977, **16**, 367 (isol, glc)Combaut, G. et al, *Phytochemistry*, 1978, **17**, 1661 (isol, glc)

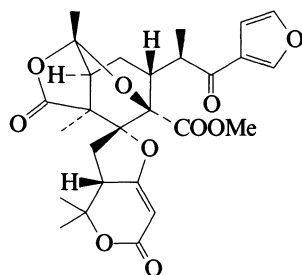
Brownin D

B-10048

C₂₆H₂₈O₉ M 484.502Constit. of *Harrisonia brownii*. Prisms (MeOH). Mp > 300°. [α]_D²⁰ +40.5° (c, 1.2 in Py).Mitsunaga, K. et al, *Tetrahedron Lett.*, 1993, **34**, 6415 (isol, pmr, cmr, cryst struct)

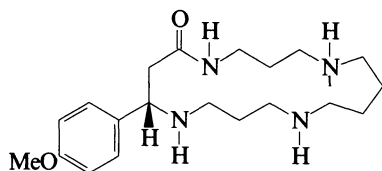
Brownin E

B-10049

C₂₇H₃₀O₁₀ M 514.528Constit. of *Harrisonia brownii*. Prisms (MeOH). Mp > 300°. [α]_D²⁰ +40.6° (c, 1 in Py).Mitsunaga, K. et al, *Tetrahedron Lett.*, 1993, **34**, 6415 (isol, pmr, cmr)

Buchnerine

B-10050

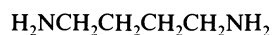
C₂₀H₃₄N₄O₂ M 362.514Trace alkaloid from leaves of *Clerodendrum buchneri* (Verbenaceae). Oil. [α]_D²² –26° (c, 0.5 in MeOH).N¹-(Z)-4-Methoxycinnamoyl: N¹-(Z)-p-MethoxycinnamoylbuchnerineC₃₀H₄₂N₄O₄ M 522.686Trace alkaloid from leaves of *C. buchneri* (Verbenaceae). Oil. [α]_D²² –28° (c, 1.2 in MeOH).Lumbu, S. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1418 (isol, ir, pmr, cmr, ms, struct)

1,4-Butanediamine, 9CI

B-10051

Updated Entry replacing B-01088

1,4-Diaminobutane. Tetramethylenediamine. Putrescine [110-60-1]

C₄H₁₂N₂ M 88.152Product of dec. of excreta, dead animal matter etc. Isol. in small amts. from plants, e.g. *Datura stramonium*, andesp. from fungi. Anal sac secretion of the red fox *Vulpes vulpes*. Manuf. by amination of 1,4-dihalobutanes.Cross-linking agent for epoxy resins. Comonomer with adipic acid for manuf. of nylon 46. Cryst. with strong odour. Mp 27-28°. Bp 158-159°. pK_a 5.29. Absorbs CO₂ from air.

▷ EJ6800000.

B,2HCl: [333-93-7].

Needles (H₂O). Mp 290°.

▷ EJ7280000.

N,N'-Di-Ac: [3073-57-2]. N,N'-1,4-Butanediylibisacetamide, 9CI

C₈H₁₆N₂O₂ M 172.227Cryst. (Me₂CO). Mp 137°.

N,N'-Dibenzoyl: [31991-78-3]. N,N'-1,4-Butanediylibisbenzamide, 9CI. Haplamide

C₁₈H₂₀N₂O₂ M 296.368Isol. from *Haplophyllum latifolium*. Cryst. (EtOH). Mp 176-177° (172-173°).

Bis(4-methylbenzenesulfonyl): Mp 224°.

N-Benzoyl, N'-cinnamoyl (E-): Pyramidatine

C₂₀H₂₂N₂O₂ M 322.406Alkaloid from leaves of *Aglaia pyramidata* (Meliaceae).Cryst. (Me₂CO). Mp 173-174°.

N-Me: [14475-60-6].

C₅H₁₄N₂ M 102.179

Constit. of tobacco.

N-Me; B,2HCl: [89690-09-5].

Cryst. Mp 177-179°.

N-Me, dibenzoyl:

C₁₉H₂₂N₂O₂ M 310.395

Mp 115.5°.

N,N'-Di-Me: [16011-97-5].

C₆H₁₆N₂ M 116.206

Bp 168°.

N,N'-Di-Me, dibenzoyl: [16012-03-6]. N,Np-1,4-Butanediylibis[N-methylbenzamide], 9CI

C₂₀H₂₄N₂O₂ M 324.422

Mp 117°.

N,N'-Di-Me, bis(3-nitrobenzoyl): Cryst. (MeOH). Mp 118°.

N-Et: [89690-10-8].

C₆H₁₆N₂ M 116.206

Cryst. Mp 220-221° (as dihydrochloride).

N-(3-Methyl-2-butenyl): N-(3-Methyl-2-butenyl)putrescine.

N-Prenylputrescine

C₉H₂₀N₂ M 156.270Bp₁₀ 105-106°. Probable struct. Struct. revised here from that originally proposed, N-(3-methyl-1-butenyl)putrescine.Chambret, F. et al, *Bull. Soc. Chim. Fr.*, 1947, 1023 (synth)Schultz, H.P., *J. Am. Chem. Soc.*, 1948, **70**, 2666 (synth)Merlis, V.M., *CA*, 1952, **46**, 7289 (isol, derivs)Lunsford, C.D. et al, *J. Org. Chem.*, 1957, **22**, 1225 (deriv)*Org. Synth.*, Coll. Vol., 4, 1963, 819 (synth)Smith, T.A. et al, *Phytochemistry*, 1964, **3**, 23 (biosynth)Morris, D.R. et al, *J. Biol. Chem.*, 1966, **241**, 3129 (biosynth)Roberts, J.D. et al, *J. Am. Chem. Soc.*, 1972, **94**, 2495 (N-15 nmr)Aldrich Library of NMR Spectra, 1974, **2**, 10A (pmr)Sarneski, J.E. et al, *Anal. Chem.*, 1975, **47**, 2116 (cmr)Mayerl, F. et al, *Helv. Chim. Acta*, 1976, **59**, 127 (ms)Albone, E.S. et al, *J. Chem. Ecol.*, 1976, **2**, 167.Nesmelova, E.F. et al, *Khim. Prir. Soedin.*, 1978, **14**, 749; *Chem.**Nat. Compd. (Engl. Transl.)*, 637 (Haplamide)Jones, R.A. et al, *J. Chem. Soc., Perkin Trans. 2*, 1984, 1089

(benzoyl derivs)

Frydman, B. et al, *J. Org. Chem.*, 1984, **49**, 2021 (N-alkyl derivs)Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 291D (ir)

Saifah, E. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 473
(*Pyramidatine*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, BOS000, POK325.

3-Butenoic acid, 9CI**B-10052**

Updated Entry replacing B-01103

Vinylacetic acid. Propene-3-carboxylic acid. Ethenylacetic acid

[625-38-7]

C₄H₆O₂ M 86.090

Constit. of tobacco smoke. Liq. d₄²⁰ 1.01. Mp –39°. Bp 163°, Bp₁₂ 69-70°. n_D¹⁵ 1.4257.

Me ester: [3724-55-8].

C₅H₈O₂ M 100.117

Liq. Bp 108-109°.

Et ester: [1617-18-1].

C₆H₁₀O₂ M 114.144

Liq. Bp 119°.

Chloride: [1470-91-3].

C₄H₅ClO M 104.536

Liq. Bp 95-96° (98-105°).

Amide: [28446-58-4]. *3-Butenamide*

C₄H₇NO M 85.105

Plates (pet. ether). Mp 72-73°.

Anhydride: [1760-48-1]. *Vinylacetic anhydride*

C₆H₁₀O₃ M 154.165Liq. Bp₃₅ 105-110°.

Anilide: [13140-15-3]. *N-Phenyl-3-butenamide, 9CI*

C₁₀H₁₁NO M 161.203

Needles (EtOH aq.). Mp 58°.

Nitrile: [109-75-1]. *3-Butenenitrile, 9CI. Allyl cyanide.*

Vinylacetone nitrile. 3-Cyano-1-propene

C₄H₅N M 67.090

Constit. of mustard oil. Liq. with odour of onions. d₄²⁰ 0.834. Mp –87°. Bp 119°. n_D²⁰ 1.4060.

▷ Skin irritant. LD₅₀ (rat, orl) 115 mg/kg.

Houben, J., *Ber.*, 1903, **36**, 2897 (*synth*)

Org. Synth., Coll. Vol., 1, 1932, 46 (*nitrile*)

Linstead, R.P. *et al*, *J. Chem. Soc.*, 1933, 560 (*synth*)

Org. Synth., Coll. Vol., 3, 1955, 851 (*synth*)

Griffith, G.H. *et al*, *J. Mol. Struct.*, 1969, **4**, 255 (*ir, raman, nitrile*)

Yonemoto, T. *et al*, *J. Magn. Reson.*, 1973, **12**, 93 (*cmr, nitrile*)

Aldrich Library of NMR Spectra, 1974, **2**, 157D (*pmr*)

Zevenhuizen, L.P.T.M., *Anal. Biochem.*, 1974, **58**, 146 (*uv*)

Simchev, G., *Synthesis*, 1975, **9**, 605 (*nitrile*)

Bigley, D.B. *et al*, *Org. Mass Spectrom.*, 1976, **11**, 352 (*ms*)

Brambilla, R. *et al*, *Tetrahedron*, 1981, **37**, 3615 (*anhydride*)

Schei, S.H. *et al*, *J. Mol. Struct.*, 1983, **98**, 141 (*struct*)

Alvhaell, J. *et al*, *Chem. Scr.*, 1984, **24**, 170 (*chloride*)

Vogl, O. *et al*, *J. Polym. Sci., Polym. Chem. Ed.*, 1984, **22**, 2501

(*Me ester, cmr*)

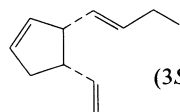
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 498D (*ir*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, BOX500.

3-(1-Butenyl)-4-vinylcyclopentene**B-10053**

Updated Entry replacing B-01114

3-(1-Butenyl)-4-ethenylcyclopentene, 9CI. Multifidene

(3*S*,4*S*,*E*)-formC₁₁H₁₆ M 148.247(3*S*,4*S*)-(E)-form [78038-46-7]

Isol. from *Dictyopteris acrostichoides*.

1',2'-Dihydro: [143615-93-4]. *3-Butyl-4-vinylcyclopentene*

C₁₁H₁₈ M 150.263

Constit. of *D. acrostichoides*.

(3*S*,4*S*)-(Z)-form [52886-04-1]

Gamete attractant of the brown alga *Cutleria multifida*.

[α]_D^{23.5} +28° (c, 0.0036 in CCl₄).

[78038-45-6, 92998-67-9]

Jaenicke, L. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 3324 (*glc, ms, nmr*)

Jaenicke, L. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1982, **21**, 643 (*rev*)

Boland, W. *et al*, *Helv. Chim. Acta*, 1982, **65**, 2355; 1983, **66**, 1905

(*synth, abs config*)

Paquette, L.A. *et al*, *J. Org. Chem.*, 1984, **49**, 4516 (*synth, abs config*)

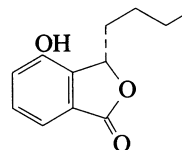
Burks, J.E. *et al*, *J. Org. Chem.*, 1984, **49**, 4663 (*synth, bibl*)

Wirth, D. *et al*, *Helv. Chim. Acta*, 1992, **75**, 734 (*synth, occur*)

3-Butyl-4-hydroxy-1(3H)-**B-10054****isobenzofuranone, 9CI**

3-Butyl-4-hydroxyphthalide. Chuangxinol

[74459-23-7]

C₁₂H₁₄O₃ M 206.241

(S)-form [74459-24-8]

Isol. from *Ligusticum wallichii* and *L. chuanxing*. Cryst.

(C₆H₆). Mp 188-190°. [α]_D –88.7° (c, 0.38 in EtOH).

[87421-30-5]

Peking Inst. Pharm. Ind., CA, 1980, **93**, 114227e (*isol*)

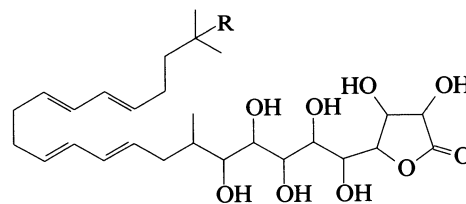
Ogawa, Y. *et al*, *Heterocycles*, 1989, **29**, 865 (*synth*)

Naito, T. *et al*, *Phytochemistry*, 1992, **31**, 639 (*isol*)

Butyrolactol A**B-10055**

BU 4408A. Antibiotic BU 4408A

[145144-32-7]

R = CH₃C₂₈H₄₆O₉ M 526.666

Prod. by *Streptomyces rochei*. Active against fungi and yeasts. Amorph. powder + ½H₂O. Mp 139.4-139.8° dec.

[α]_D²⁶ –25.5° (c, 2 in DMSO).

Kotake, C. *et al*, *J. Antibiot.*, 1992, **45**, 1442 (*isol, pmr, cmr, struct, props*)

Butyrolactol B**B-10056**

BU 4408B. Antibiotic BU 4408B

[145144-33-8]

As Butyrolactol A, B-10055 with

R = H

$C_{27}H_{44}O_9$ M 512.639

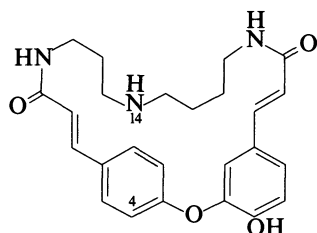
Prod. by *Streptomyces rochei*. Active against fungi and yeasts. Amorph. powder + $1H_2O$.

Kotake, C. *et al.*, *J. Antibiot.*, 1992, **45**, 1442 (*isol. pmr. cmr. struct. props*)

C

Cadabicine

Updated Entry replacing C-00019
[99964-83-7]



$C_{25}H_{29}N_3O_4$ M 435.522

Alkaloid from the stem bark of *Cadaba farinosa* and *Crataeva nurvala* (Capparidaceae). Mp 270-272° dec.

N^{14} ,*O*-*Di*-*Ac*: [99964-84-8]. **Cadabicine diacetate**

$C_{29}H_{33}N_3O_6$ M 519.596

Alkaloid from *C. nurvala* (Capparidaceae). Rods (MeOH). Mp 265-268°.

4-*Methoxy*: [126431-38-7]. **Isocodonocarpine**

$C_{26}H_{31}N_3O_5$ M 465.548

Alkaloid from root bark of *Capparis decidua* (Capparidaceae). Off-white cryst. (MeOH). Mp 220-222° dec. CA gives incorrect name.

4-*Methoxy*, N^{14} -*Ac*: **14-N-Acetylisocodonocarpine**

$C_{28}H_{33}N_3O_6$ M 507.585

Alkaloid from root bark of *C. decidua* (Capparidaceae). Amorph. powder. Mp 234-236°.

4-*Methoxy*, N^{14} ,*O*-*di*-*Ac*: Cryst. (MeOH). Mp 205-207°.

Me ether: **Cadabicine methyl ether**. *O*-*Methylcadabicine*

$C_{26}H_{31}N_3O_4$ M 449.549

Alkaloid from stem bark of *Cadaba farinosa* and *Crataeva nurvala* (Capparidaceae).

Ahmad, V.U. *et al*, *Phytochemistry*, 1985, **24**, 2709; 1989, **28**, 2493 (*isol, uv, ir, pmr, cmr, ms, cryst struct*)

Ahmad, V.U. *et al*, *J. Nat. Prod. (Lloydia)*, 1987, **50**, 1186 (*isol, Cadabicine, Cadabicine diacetate*)

Ahmad, V.U. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1509 (*14-N-Acetylisocodonocarpine*)

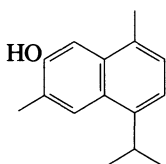
Ahmad, V.U. *et al*, *Pak. J. Sci. Ind. Res.*, 1992, **35**, 475; *CA*, **119**, 177556n (*Cadabicine methyl ether*)

3-Cadalenol

Updated Entry replacing C-00025

3,8-*Dimethyl*-*5*-(*1*-*methylethyl*)-*2*-*naphthalenol*, *9CI*. *5*-*Isopropyl*-*3,8*-*dimethyl*-*2*-*naphthol*. *3*-*Hydroxycadalenol*. *7*-*Hydroxycadalenol*

[2102-75-2]



$C_{15}H_{18}O$ M 214.307

Constit. of various heartwoods. Cryst. (pet. ether). Mp 118-119.5°.

Picrate: Reddish-brown needles. Mp 138.5-139.5°.

C-10001

Me ether: **3-Methoxycadalenol**. *7*-*Methoxycadalenol*

$C_{16}H_{20}O$ M 228.333

Constit. of *Heteroscyphus planus*.

Briggs, L.H. *et al*, *J. Chem. Soc.*, 1949, 1098 (*synth*)

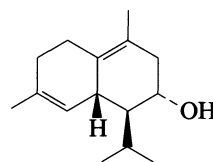
Gallagher, M.J. *et al*, *Aust. J. Chem.*, 1965, **18**, 1111 (*synth, uv*)

Alexander, J. *et al*, *Tetrahedron*, 1971, **27**, 645 (*synth, ir, uv*)

Naketa, K. *et al*, *Phytochemistry*, 1993, **32**, 117 (*deriv*)

1(10),4-Cadinadien-8-ol

C-10003



$C_{15}H_{24}O$ M 220.354

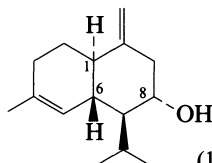
8 α -form

Constit. of *Pulicaria gnaphaloides*. Oil. $[\alpha]_D^{20} +29^\circ$ (c, 1 in $CHCl_3$).

Weyerstahl, P. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 1117 (*isol, pmr, cmr*)

4,10(14)-Cadinadien-8-ol

C-10004



(1 α ,6 β ,8 α)-form

$C_{15}H_{24}O$ M 220.354

(1 α ,6 β ,8 α)-form

Constit. of *Pulicaria gnaphaloides*. Oil.

(1 α ,6 β ,8 β)-form

Constit. of *P. gnaphaloides*. Oil.

(1 β ,6 β ,8 α)-form

4,10(14)-*Muuroladien*-*8* α -*ol*

$C_{15}H_{24}O$ M 220.354

Constit. of *P. gnaphaloides*. Oil.

(1 β ,6 β ,8 β)-form

4,10(14)-*Muuroladien*-*8* β -*ol*

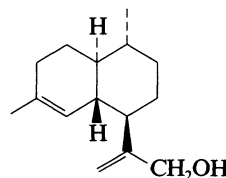
Constit. of *P. gnaphaloides*. Oil.

Weyerstahl, P. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 1117 (*isol, pmr, cmr*)

4,11(13)-Cadinadien-12-ol

C-10005

[147648-62-2]



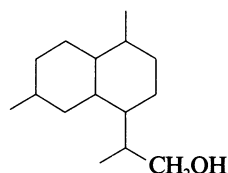
$C_{15}H_{24}O$ M 220.354

Constit. of *Nolana coelestis*. Oil. $[\alpha]_D^{25}$ -177.3° (c, 1 in CHCl_3).

Ac: [147568-32-9]. 12-Acetoxy-4,11(13)-cadinadiene
 $\text{C}_{17}\text{H}_{26}\text{O}_2$ M 262.391
 Constit. of *N. coelestis*. Oil. $[\alpha]_D^{25}$ -179.1° (c, 1 in CHCl_3).

Garbarino, J.A. et al, *Phytochemistry*, 1993, 32, 987 (isol, pmr, cmr)

12-Cadinanol
Artemisininol
 [82890-78-6]



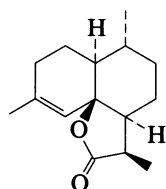
$\text{C}_{15}\text{H}_{28}\text{O}$ M 224.386

Constit. of *Artemisia annua*.

Zhu, D. et al, *CA*, 1982, 97, 107028v.

C-10006

4-Cadinen-12,6-olide



$\text{C}_{15}\text{H}_{22}\text{O}_2$ M 234.338

(6 β ,10 β H,12 α H)-form [104196-16-9]

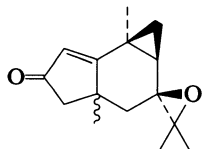
Dihydroepideoxyarteannuin B

Constit. of *Artemisia annua*. Oil.

Brown, G.D., *J. Nat. Prod. (Lloydia)*, 1992, 55, 1576 (isol, pmr, cmr)

C-10007

Caespitenene
 [73935-94-1]



$\text{C}_{15}\text{H}_{22}\text{O}_2$ M 218.338

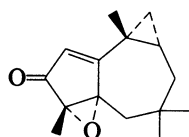
Constit. of *Porella caespitans*.

Asakawa, Y. et al, *J. Hattori Bot. Lab.*, 1980, 47, 153.

C-10008

Caespitenone

Updated Entry replacing C-00071
 [73019-81-5]



$\text{C}_{15}\text{H}_{20}\text{O}_2$ M 232.322

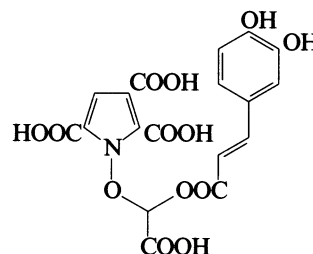
C-10009

Struct. revised in 1993. Constit. of *Porella* spp. Oil. $[\alpha]_D$ -34° (c, 0.2 in CHCl_3).

Asakawa, Y. et al, *Phytochemistry*, 1980, 19, 603 (isol)
 Tori, M. et al, *Tetrahedron Lett.*, 1993, 34, 3751 (struct)

1-[Caffeoyloxy(carboxy)methoxy]-1H-pyrrole-2,3,5-tricarboxylic acid
 [133084-32-9]

C-10010



$\text{C}_{18}\text{H}_{13}\text{NO}_{13}$ M 451.300

Alkaloid from *Parietaria officinalis* (Urticaceae). Off-white granules. Mp $>360^\circ$.

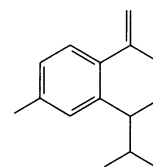
Budzianowski, J. et al, *Phytochemistry*, 1990, 29, 3299 (isol, pmr, wv, cmr)

β -Calacorene

C-10011

1,2,3,4-Tetrahydro-6-methyl-1-methylene-4-(1-methylethyl)naphthalene. 1,2,3,4-Tetrahydro-4-isopropyl-6-methyl-1-methylenenaphthalene

[50277-34-4]



$\text{C}_{15}\text{H}_{20}$ M 200.323

Constit. of *Cryptomeria japonica* and *Teucrium polium*. Oil.

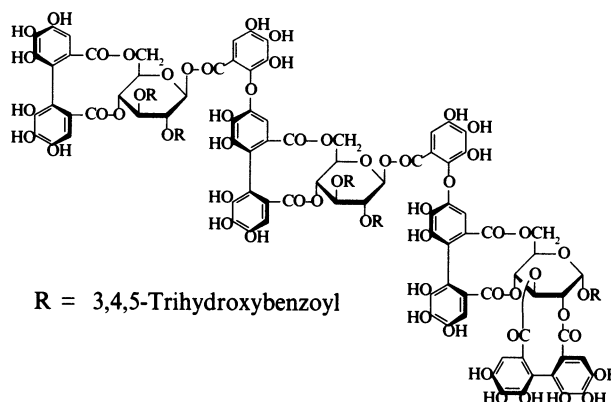
Vokov, D. et al, *J. Nat. Prod. (Lloydia)*, 1985, 48, 498 (isol)

Gupta, K. et al, *J. Indian Chem. Soc.*, 1987, 64, 66 (isol, glc)

Calamanin C

C-10012

[135382-90-0]



R = 3,4,5-Trihydroxybenzoyl

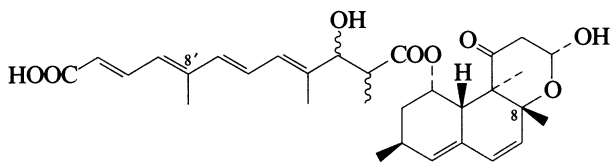
$\text{C}_{123}\text{H}_{84}\text{O}_{78}$ M 2809.969

A trimeric ellagitannin from the leaf of *Terminalia calamansanai*. Tan amorph. powder. $[\alpha]_D^{25} + 131.0^\circ$ (c, 1.1 in MeOH). Ref. appears to incorrectly give the formula $C_{123}H_{84}O_{77}$.

Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 60 (*struct*, *pmr*, *cmr*)

Calbistrin A

C-10013



$C_{31}H_{40}O_8$ M 540.652

Prod. by *Penicillium restrictum*. Antifungal agent. Active against *Candida albicans*. Related to Versiol, V-00213.

8'Z-Isomer: **Calbistrin B**

$C_{31}H_{40}O_8$ M 540.652

Prod. by *P. restrictum*. Antifungal agent. Active against *C. albicans*.

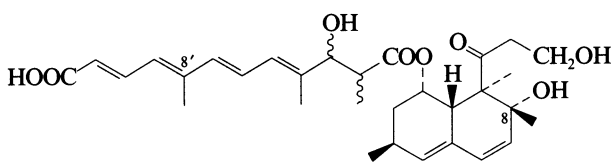
[145594-76-9, 145679-02-3, 147384-55-2, 147384-56-3]

Jackson, M. *et al*, *J. Antibiot.*, 1993, **46**, 34 (*isol*, *props*)

Brill, G.M. *et al*, *J. Antibiot.*, 1993, **46**, 39 (*w*, *ir*, *pmr*, *cmr*, *struct*)

Calbistrin C

C-10014



$C_{31}H_{42}O_8$ M 542.668

Prod. by *Penicillium restrictum*. Antifungal agent. Active against *Candida albicans*.

8'Z-Isomer: **Calbistrin D**

$C_{31}H_{42}O_8$ M 542.668

Prod. by *P. restrictum*. Antifungal agent. Active against *C. albicans*.

[147385-34-0]

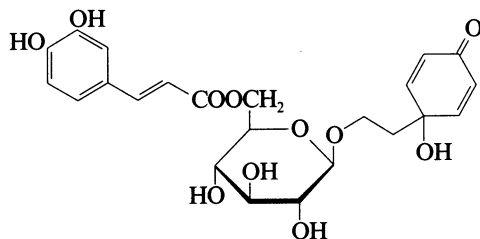
Jackson, M. *et al*, *J. Antibiot.*, 1993, **46**, 34 (*isol*, *props*)

Brill, G.M. *et al*, *J. Antibiot.*, 1993, **46**, 39 (*w*, *ir*, *pmr*, *cmr*, *struct*)

Calceolarioside D

C-10015

[114217-05-9]



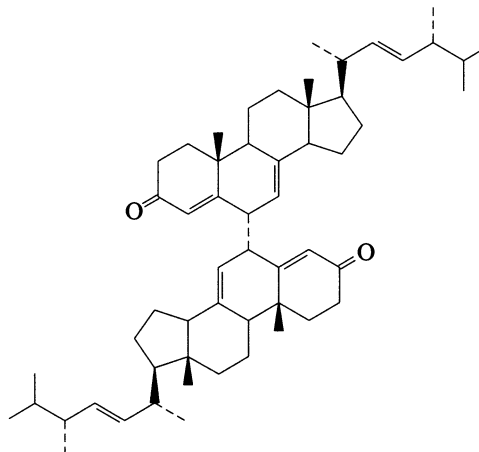
$C_{23}H_{26}O_{11}$ M 478.452

Isol. from aerial parts of *Calceolaria hypericina*. Amorph. powder. $[\alpha]_D^{25} - 21.5^\circ$ (c, 2.0 in MeOH).

Nicoletti, M. *et al*, *Phytochemistry*, 1988, **27**, 639 (*isol*, *pmr*, *cmr*)

Calvasterone

C-10016



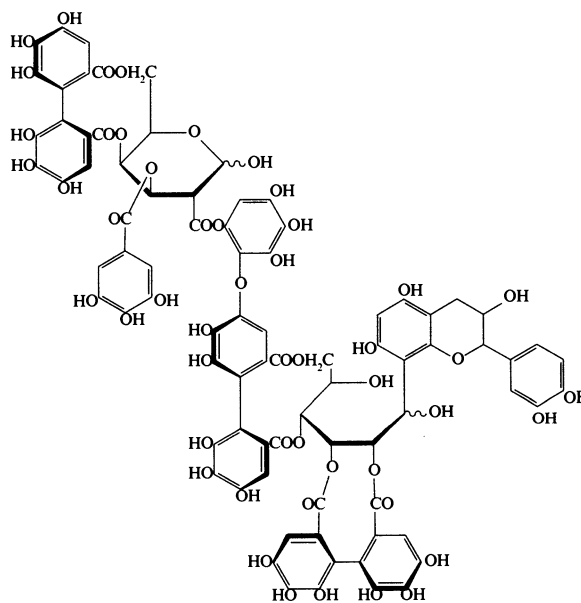
$C_{56}H_{82}O_2$ M 787.263

Metab. of *Calvatia cyathiformis*. Cryst. (Me₂CO). Mp 202-204°. $[\alpha]_D + 58.2^\circ$ (c, 1.2 in CHCl₃).

Kawahara, N. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 1318 (*isol*, *pmr*, *cmr*)

Camellianin D

C-10017



$C_{83}H_{62}O_{50}$ M 1859.373

Exists as an equilibrated mixt. of α - and β -anomers. Tannin constit. of *Camellia japonica*.

Okuda, T. *et al*, *Heterocycles*, 1990, **30**, 1195 (*struct*)

Canavalmine

C-10018

N,N'-1,3-Propanediylbis[1,4-butanediamine]. 1,13-Diamino-5,9-diazatridecane

[70862-15-6]



$C_{11}H_{28}N_4$ M 216.369

Isol. from the seeds of *Canavalia gladiata*.

N'-(3-Aminopropyl): [129225-31-6]. N'-(3-Aminopropyl) canavalmine. 1,17-Diamino-4,9,13-triazaheptadecane

$C_{14}H_{35}N_5$ M 273.464

Constit. of *C. gladiata*.

N'-(4-Aminobutyl): [129225-32-7]. N'-(4-Aminobutyl)
canavamine. 1,18-Diamino-5,9,14-triazaoctadecane
C₁₅H₃₇N₅ M 287.491
Constit. of *C. gladiata*.

[107886-53-3, 107886-65-7]

Fujihara, S. *et al*, *Biochem. Biophys. Res. Commun.*, 1982, **107**, 403
(*isol, synth, ir*)

Aikens, D. *et al*, *Biophys. Chem.*, 1983, **17**, 67 (*cmr*)

Samejima, K. *et al*, *Chem. Pharm. Bull.*, 1984, **32**, 3428 (*synth*)

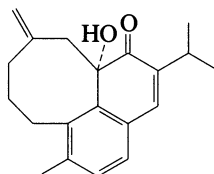
Niitsu, M. *et al*, *Chem. Pharm. Bull.*, 1986, **34**, 1032 (*deriv*)

Matsuzaki, S. *et al*, *Phytochemistry*, 1990, **29**, 1311 (*derivs*)

Candidissiol

C-10019

[145706-88-3]



C₂₀H₂₄O₂ M 296.408

Constit. of *Salvia candidissima*. Cryst. (MeOH). Mp 72-73°. [α]_D²⁵ +38.5° (c, 0.1 in MeOH).

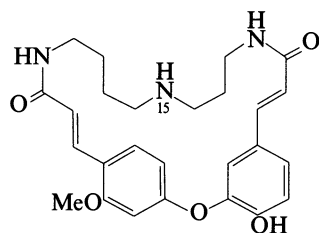
Ulubelen, A. *et al*, *Tetrahedron Lett.*, 1992, **33**, 7241 (*isol, pmr, cmr*)

Capparisine

C-10020

Updated Entry replacing C-00314

[104899-66-3]



C₂₆H₃₁N₃O₅ M 465.548

Alkaloid from the root bark of *Capparis decidua* (Capparidaceae). Cryst. (MeOH). Mp 160-162°.

N¹⁵-Ac: **15-N-Acetylcapparisine**

C₂₈H₃₃N₃O₆ M 507.585

Alkaloid from root bark of *C. decidua* (Capparidaceae).

Amorph. powder. Mp 178-180°.

N¹⁵,O-Di-Ac: Amorph. Mp 223-224°.

Ahmad, V.U. *et al*, *Z. Naturforsch.*, B, 1986, **41**, 1033 (*isol, uw, ir, pmr, cmr, ms, struct*)

Ahmad, V.U. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1509 (*15-N-Acetylcapparisine*)

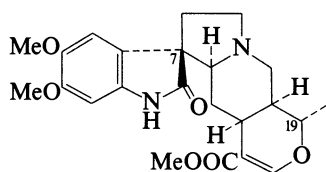
Carapanaubine

C-10021

Updated Entry replacing C-00343

Isoreserpiline oxindole B

[1255-02-3]



C₂₃H₂₈N₂O₆ M 428.484

Alkaloid from *Aspidosperma carapanauba*, *Rauwolfia vomitoria*, *Cabucala madagascariensis* var. *amygdalifolia* (Apocynaceae). Cryst. (EtOAc/hexane or EtOH aq.). Mp 221-223°. [α]_D³⁰ –101° (c, 1.0 in CHCl₃).

N-Oxide: [64675-22-5]. **Carapanaubine N-oxide**

C₂₃H₂₈N₂O₇ M 444.483

Alkaloid from *R. vomitoria* (Apocynaceae).

7-Epimer: [17391-09-2]. **Isocarapanaubine**. *Isoreserpiline oxindole A*

C₂₃H₂₈N₂O₆ M 428.484

Alkaloid from *R. vomitoria*, *R. salicifolia* and *Ochrosia moorei* (Apocynaceae). Amorph. [α]_D²⁰ –64° (CHCl₃).

3-Epimer: see *Rauvoxine*, R-00070

7,19-Diepimer: [122923-45-9]. **Neisosposinine**

C₂₃H₂₈N₂O₆ M 428.484

Alkaloid from the stem bark of *Neisosperma oppositifolia*. Plates (Me₂CO). Mp 228-230°.

Finch, N. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 1520 (*synth*)

Gilbert, B. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 1523 (*isol, uw, pmr, ms, struct*)

Pousset, J.-L. *et al*, *Bull. Soc. Chim. Fr.*, 1967, 2766 (*epimer, synth, uw, ir, pmr, config*)

Poisson, J. *et al*, *Tetrahedron Lett.*, 1967, 1919 (*config*)

Iwu, M.M. *et al*, *Planta Med.*, 1977, **32**, 88 (*oxide*)

Sierra, P. *et al*, *Collect. Czech. Chem. Commun.*, 1982, **47**, 2912

(*epimer, isol*)

Verpoorte, R. *et al*, *Org. Magn. Reson.*, 1984, **22**, 328 (*cmr*)

Gunatilaka, A.A. *et al*, *Heterocycles*, 1989, **28**, 999 (*Neisosposinine*)

Carbon monoxide

C-10022

Updated Entry replacing C-00375

[630-08-0]

CO

CO M 28.010

Interatomic distance C—O 112.8 pm. Manuf. by partial oxidn. of hydrocarbon gases from natural gas, or gasification of coke and coal. Synth. from HCO₂H + H₂SO₄. Prod. in traces by algae and higher plants. Prod. in the body by haem oxygenase-catalysed breakdown of haem into biliverdin. Reducing agent, used in Fischer-Tropsch processes for petroleum-type products, manuf. of metal carbonyls. Carbonylates organoboranes. Commercially available. Appears to be a hormonal messenger involved in cyclic GMP regulation.

Vasodilator. Odourless, tasteless, colourless gas. V. spar. sol. H₂O; sol. AcOH, MeOH, EtOH. Mp –213°. Bp –190°. Crit. point –114.1° (–138.7°)/35.9 atm.

Readily absorbed by conc. solns. of Cu₂Cl₂ in aq. NH₃ or HCl. Exhaust gas, air pollutant.

► Extremely flammable, forms highly explosive mixtures with air. High conc. cause unconsciousness due to anoxia which results from the formation of carboxyhaemoglobin. Lower atm. conc. can cause headaches, nausea. Chronic effects include, headache, nausea and weakness. LC₅₀ (rat, ihl) 1807 ppm (4 hour exposure). Exp. reprod. and teratogenic effects. Autoignition temp. 570°. FG3500000.

Mellor, J.W., *Mellor Compr. Treat. Inorg. Theor. Chem.*,

Longman, London, 1922, **5**, 921, 925, 945 (*bibl*)

Inorg. Synth., 1946, **2**, 81 (*synth*)

Weinhouse, S., *J. Am. Chem. Soc.*, 1948, **70**, 442 (*synth*)

Wilks, S.S., *Science (Washington, D.C.)*, 1959, **129**, 964 (*occur*)

Siegel, S.M. *et al*, *Science (Washington, D.C.)*, 1962, **137**, 683

(*occur*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1969, **2**, 60, 204; 1972, **3**, 41; 1975, **5**, 96; 1979, **7**, 53; 1980, **8**, 76; 1981, **9**, 95; 1984, **11**, 111 (*uses*)

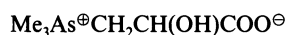
Brauer, G., *Handbuch Präp. Anorg. Chem.*, 3rd Ed., Ferdinand Enke Verlag, 1975-1981, **2**, 621 (*synth*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1980, 8, 76.
 Kirk-Othmer Encycl. Chem. Technol., 4th edn., Wiley, New York, 1991, 5, 97 (rev)
 Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, London, 1993, 864-2.
 Synder, S. et al, Science (Washington, D.C.), 1993, 259, 381 (pharmacol)
 Lewis, R.J., Sax's Dangerous Properties of Industrial Materials, 8th Ed., Van Nostrand-Reinhold, 1992, CBW750.
 Bretherick, L., Handbook of Reactive Chemical Hazards, 4th edn., Butterworth, London and Boston, 1990, 0527.
 Luxon, S.G., Hazards in the Chemical Laboratory, 5th edn., Royal Society of Chemistry, Cambridge, 1992, 257.

(2-Carboxy-2-hydroxyethyl) C-10023

trimethylarsonium hydroxide inner salt, 9CI

β -Trimethylarsonium lactate
 [68688-60-8]



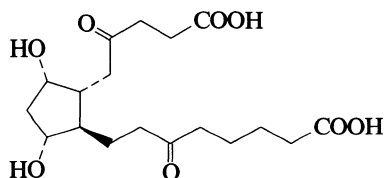
$\text{C}_6\text{H}_{13}\text{AsO}_3$ M 208.088

Occurs as an *O*-phospholipid in marine algae e.g. *Dunaliella tertiolecta*. Prod. from inorganic arsenate. Also occurs as a *O*-phosphatidyl deriv. in the marine diatom *Chaetoceros concavicornis*. Occurs free in the lobster *Homarus americanus*. White plates (EtOH/Et₂O). Mp 199-201°.

Cooney, R.V. et al, Proc. Natl. Acad. Sci. U.S.A., 1978, 75, 4262.
 Cooney, R.V. et al, Chemosphere, 1980, 9, 335 (biosynth)
 Summons, R.E. et al, Phosphorus Sulfur Relat. Elem., 1982, 13, 133 (synth, ms, ir)

2-(4-Carboxy-2-oxobutyl)-3,5-dihydroxy-2-oxocyclopentaneoctanoic acid C-10024

Dinor-4,13-diketo-7,9-dihydroxy-1,18-prostandioic acid
 [68340-29-4]



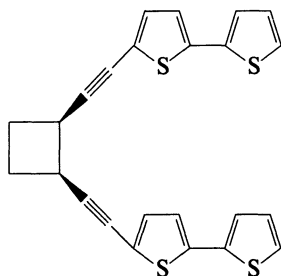
$\text{C}_{18}\text{H}_{28}\text{O}_8$ M 372.414

Prostacyclin metab. in bile.

Rosenkranz, B. et al, J. Biol. Chem., 1980, 255, 10194 (biosynth)
 Taylor, B.M. et al, J. Pharmacol. Exp. Ther., 1980, 214, 24; 1983, 224, 692 (biosynth)

Cardopatine C-10025

5,5''-(1,2-Cyclobutanediyl-di-2,1-ethynediyl)bis-2,2'-bithiophene, 9CI



$\text{C}_{24}\text{H}_{16}\text{S}_4$ M 432.654

(Z)-form [70607-89-5]

Constit. of *Cardopatum corymbosum*. Yellow plates (EtOH). Mp 123-125°.

(±)-(E)-form [70607-88-4]

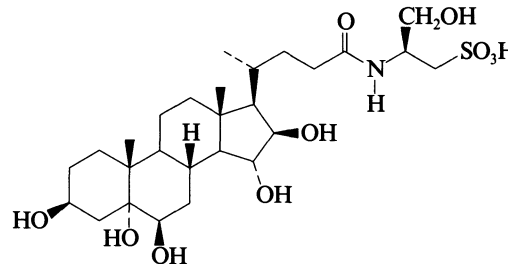
Isocardopatine

Pale-yellow plates (EtOH). Mp 79-80°.

Selva, A. et al, Phytochemistry, 1978, 17, 2097.

Carolisterol A

[151171-32-3]

C-10026

$\text{C}_{27}\text{H}_{47}\text{NO}_{10}\text{S}$ M 577.735

Constit. of *Styracaster caroli*.

6-Ketone: [151171-33-4]. **Carolisterol B**

$\text{C}_{27}\text{H}_{45}\text{NO}_{10}\text{S}$ M 575.719

Constit. of *S. caroli*.

6-Epimer, 5-deoxy: [151171-34-5]. **Carolisterol C**

$\text{C}_{27}\text{H}_{47}\text{NO}_9\text{S}$ M 561.736

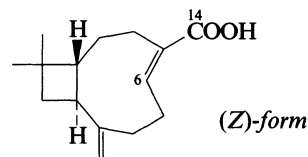
Constit. of *S. caroli*.

De Riccardis, F. et al, Tetrahedron Lett., 1993, 34, 4381 (isol, pmr, cmr)

3(15),6-Caryophylladien-14-oic acid C-10027

Updated Entry replacing C-00484

15-Caryophyllenoic acid

C-10027

$\text{C}_{15}\text{H}_{22}\text{O}_2$ M 234.338

(Z)-form

Constit. of *Lychnophora salicifolia*. Gum.

Me ester: Oil. $[\alpha]_D^{24} + 2.8^\circ$ (c, 3.2 in CHCl_3).

6,7-Dihydro: **3(15)-Caryophyllen-14-oic acid**

$\text{C}_{15}\text{H}_{24}\text{O}_2$ M 236.353

Constit. of *L. salicifolia*. Oil (as Me ester). $[\alpha]_D^{24} - 4.4^\circ$ (c, 10.4 in CHCl_3) (Me ester).

14-Alcohol, 6 ξ ,7 ξ -epoxide: [94901-71-0]. **6,7-Epoxy-3(15)-caryophyllen-14-ol. 14-Hydroxycaryophyllene-4,5-oxide**

$\text{C}_{15}\text{H}_{24}\text{O}_2$ M 236.353

Constit. of *Betula pubescens*. Oil. $[\alpha]_D^{18} - 34.6^\circ$ (c, 0.5 in CHCl_3).

(E)-form

14-Aldehyde: **3(15),6-Caryophylladien-14-al. 13-**

Isocaryophyllenal. β -Betulenal

Constit. of *Cunila speciosa*. $[\alpha]_D^{20} - 31.8^\circ$ (c, 0.69 in CHCl_3).

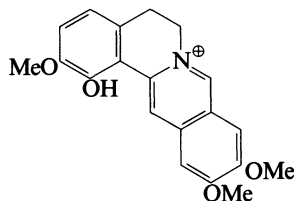
Bohlmann, F. et al, Phytochemistry, 1980, 19, 2381.

Pokhilo, N.D. et al, Khim. Prir. Soedin., 1984, 20, 598; Chem. Nat. Compd. (Engl. Transl.), 563.

Manns, D. et al, Planta Med., 1992, 58, 442 (β -Betulenal)

Caseadinium(1+)

C-10028



$C_{20}H_{20}NO_4^{\oplus}$ M 338.382 (ion)
Alkaloid from *Ceratocapnos heterocarpa* (Papaveraceae).

Chloride:

$C_{20}H_{20}ClNO_4$ M 373.835
Yellowish solid. Mp 192°.

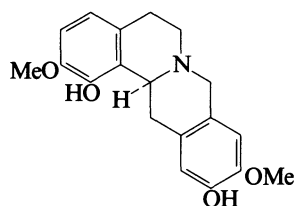
Suau, R. *et al*, *Phytochemistry*, 1993, **34**, 559 (*isol, uv, pmr, ms, struct*)

Caseamine

C-10029

Updated Entry replacing C-00502

Alkaloid F33
[27498-04-0]



$C_{19}H_{21}NO_4$ M 327.379
Struct. revised in 1988. Alkaloid from *Corydalis caseana* (Fumariaceae). Major alkaloid from the whole plant of *Ceratocapnos heterocarpa* (Fumariaceae). Cryst. ($CHCl_3/MeOH$). Mp 246-247° (257°). $[\alpha]_D^{20} - 365^\circ$ (c, 0.04 in $CHCl_3$), $[\alpha]_D - 406^\circ$ (c, 0.12 in $CHCl_3$).

Di-Me ether: Cryst. Mp 186°. $[\alpha]_D - 360^\circ$ (c, 0.4 in $CHCl_3$).

α -N-Oxide: *cis*-Caseamine N-oxide

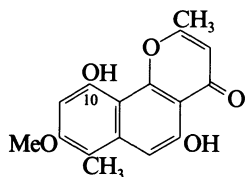
$C_{19}H_{21}NO_5$ M 343.379
Alkaloid from *Ceratocapnos heterocarpa* (Papaveraceae). Pale yellowish cryst. (MeOH). Mp 244-246°. $[\alpha]_D - 216^\circ$ (c, 0.05 in MeOH).

Manske, R.H.F. *et al*, *Can. J. Res., Sect. B*, 1938, **16**, 153 (*isol*)
Chen, C.-Y. *et al*, *Tetrahedron Lett.*, 1968, 349 (*uv, ms*)
Suau, R. *et al*, *Phytochemistry*, 1988, **27**, 1920; 1993, **34**, 559 (*isol, uv, ir, pmr, cmr, ms, synth, struct, oxide*)

Cassiapyrone

C-10030

5,10-Dihydroxy-8-methoxy-2,7-dimethyl-4H-naphtho[1,2-b]pyran-4-one, 9CI
[132922-78-2]



$C_{16}H_{14}O_5$ M 286.284
Amorph. powder.

10-O-Sulfate: [132922-77-1]. Cassiapyrone 10-sulfate

$C_{16}H_{14}O_8S$ M 366.348

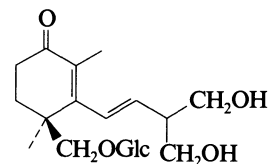
Constit. of the roots of *Cassia pudibunda*. Amorph. powder.

Messana, I. *et al*, *Heterocycles*, 1990, **31**, 1847 (*isol*)

Cassioside†

C-10031

4-[(β -D-Glucopyranosyloxy)methyl]-3-[4-hydroxy-3-(hydroxymethyl)-1-butenyl]-2,4-dimethyl-2-cyclohexen-1-one, 9CI
[108543-38-0]



$C_{20}H_{32}O_9$ M 416.467

Isol. from the stem bark of *Cinnamomum cassia*. Antiulcerogenic. Syrup. $[\alpha]_D - 25.2^\circ$ (c, 0.5 in MeOH).

Aglycone: [117479-71-7]. Cassiol

$C_{14}H_{22}O_4$ M 254.325

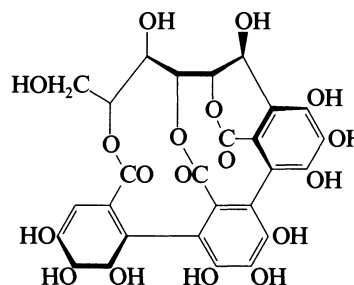
Hydrol. prod. of parent. Antiulcerogenic. $[\alpha]_D^{20} + 8.5^\circ$ (c, 0.37 in MeOH).

Shiraga, Y. *et al*, *Tetrahedron*, 1988, **44**, 4703 (*isol, pmr, cmr*)
Uno, T. *et al*, *Tetrahedron*, 1990, **46**, 5563 (*synth, Cassiol*)

Castalin

C-10032

[19086-75-0]



$C_{27}H_{20}O_{18}$ M 632.444

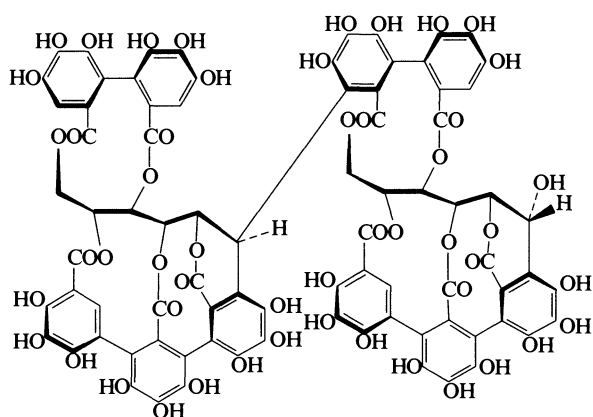
Isol. from wood of *Castanea sativa* and *Quercus sessiliflora*. Off-white amorph. powder. $[\alpha]_D^{17} + 14.4^\circ$ (c, 0.46 in H_2O). Gives Vescalin, V-00232 on heating in aq. soln.

Mayer, W. *et al*, *Justus Liebigs Ann. Chem.*, 1967, **707**, 177 (*isol, struct*)

Nonaka, G. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1985, 163 (*pmr, cmr*)

Castamollinin

C-10033



$C_{82}H_{50}O_{51}$ M 1851.266

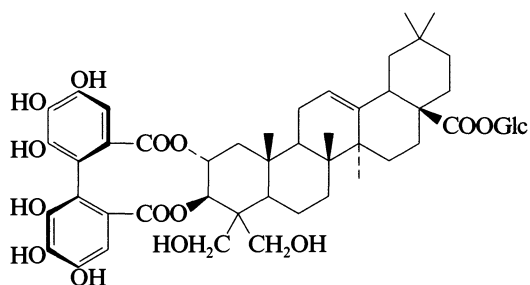
Ellagitannin constit. of *Anogeissus acuminata* var. *lanceolata*.

Lin, T.-C. et al, *Chem. Pharm. Bull.*, 1991, **39**, 1144 (struct)

Castanopsinin CA

C-10034

[116810-75-4]



$C_{50}H_{64}O_{19}$ M 969.044

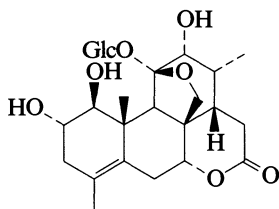
A tannin constit. isol. from the fresh leaf of *Castanopsis cuspidata* var. *sieboldii*. Off-white amorph. powder + $2H_2O$. $[\alpha]_D^{18} + 13.5^\circ$ (c, 0.85 in MeOH).

Ageta, M. et al, *Chem. Pharm. Bull.*, 1988, **36**, 1646 (struct, pmr, cmr)

Casteloside C

C-10035

[147526-83-8]



$C_{26}H_{38}O_{12}$ M 542.579

Constit. of *Castela tortuosa*. Cryst. (MeOH). Mp 290-292°.

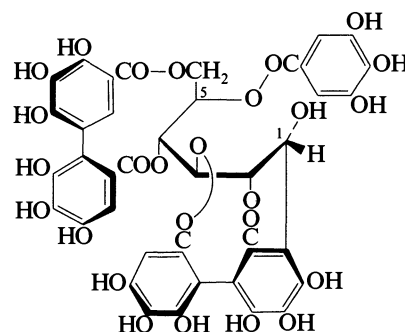
Kubo, I. et al, *Phytochemistry*, 1993, **32**, 215 (isol, pmr, cmr)

Casuarinin

C-10036

Updated Entry replacing C-00544

[79786-01-9]



$C_{41}H_{28}O_{26}$ M 936.657

Isol. from the leaf of *Casuaria stricta*, *Stachyurus praecox* and *Corylus heterophylla*. Pale yellow amorph. powder + $7H_2O$. $[\alpha]_D + 43.6^\circ$ (c, 1 in MeOH).

1-Epimer: [81739-27-7]. *Stachyurin*

$C_{41}H_{28}O_{26}$ M 936.657

Tannin from *C. stricta* and *S. praecox*. Off-white amorph. powder + $5H_2O$. $[\alpha]_D + 39^\circ$ (c 0.4 in MeOH).

5-Degalloyl: [79786-04-2]. *Casuariin*

$C_{34}H_{24}O_{22}$ M 784.550

Tannin from *C. stricta* and *S. praecox*. Pale-yellow amorph. powder + $4H_2O$. $[\alpha]_D + 162^\circ$ (c, 0.5 in MeOH).

1-Epimer, 5-O-degalloyl: [115406-24-1]. *Castanin*. 5-Desgalloylstachyurin

$C_{34}H_{24}O_{22}$ M 784.550

Isol. from *Euphorbia thymifolia* and *Castanea mollissima*. Pale brown amorph. powder. $[\alpha]_D^{20} - 26.5^\circ$ (c, 0.8 in MeOH).

Okuda, T. et al, *Chem. Pharm. Bull.*, 1982, **30**, 766 (struct, uv, pmr)

Okuda, T. et al, *J. Chem. Soc., Perkin Trans. 1*, 1983, 1765 (ir, uv, cd, pmr)

Feng, H. et al, *Phytochemistry*, 1988, **27**, 1185 (*Castanin*)

Nonaka, G. et al, *Chem. Pharm. Bull.*, 1990, **38**, 2151 (struct, abs config)

Lee, S.H. et al, *Phytochemistry*, 1990, **29**, 3621 (5-Desgalloylstachyurin)

Caudicifolin

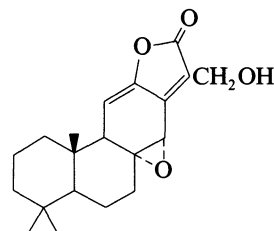
C-10037

Updated Entry replacing C-00586

8,14-Epoxy-17-hydroxy-11,13(15)-abietadien-15,12-olide.

Fischeriana A

[65388-16-1]



$C_{20}H_{26}O_4$ M 330.423

Constit. of *Euphorbia caudicifolia*, *E. acaulis* and *E. fischeriana*. Cryst. Mp 177-182°. $[\alpha]_D^{25} + 94.4^\circ$ (c, 0.7 in $CHCl_3$).

17-O-β-D-Glucopyranoside: [124681-12-5]. *Fischeriana B*

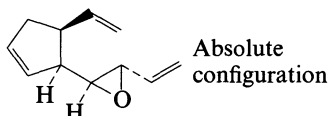
$C_{26}H_{36}O_9$ M 492.565

Constit. of *E. fischeriana*.

Ahmad, S. *et al*, *Phytochemistry*, 1977, **16**, 1844 (*isol*)
 Satti, N.K. *et al*, *Phytochemistry*, 1986, **25**, 1411 (*cryst struct, cmr, pmr*)
 Liu, G. *et al*, *CA*, 1990, **112**, 52194s (*Fischerianas*)

Caudoxirene**C-10038**

Updated Entry replacing C-00588
 [117415-46-0]



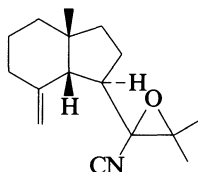
$C_{11}H_{14}O$ M 162.231

Metab. of *Perithalia caudata*. Gamete releasing factor (threshold conc. = 30 pmol). Oil.

Muller, D.G. *et al*, *Biol. Chem. Hoppe-Seyler*, 1988, **369**, 655 (*ms, pharmacol*)
 Wirth, D. *et al*, *Helv. Chim. Acta*, 1990, **73**, 916; 1992, **75**, 751 (*isol, pmr, cmr, ms, ir, synth, abs config*)

Cavernoisnitrile**C-10039**

[145543-56-2]



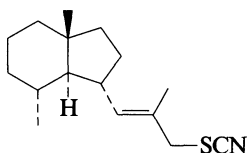
$C_{16}H_{23}NO$ M 245.364

Constit. of *Acanthella* cf. *cavernosa*. $[\alpha]_D +27^\circ$ (c, 0.17 in MeOH).

Fusetani, N. *et al*, *Tetrahedron Lett.*, 1992, **33**, 6823 (*isol, pmr, cmr*)

Cavernothiocyante**C-10040**

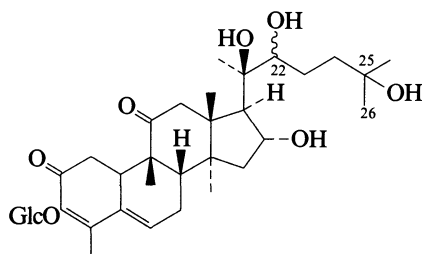
[145543-57-3]



$C_{16}H_{25}NS$ M 263.446

Constit. of *Acanthella* cf. *cavernosa* and *Phyllidia ocellata*. $[\alpha]_D -37.8^\circ$ (c, 0.037 in $CHCl_3$).

Fusetani, N. *et al*, *Tetrahedron Lett.*, 1992, **33**, 6823 (*isol, pmr, cmr*)

Cayaponoside D_{3b}**C-10041**

$C_{35}H_{54}O_{12}$ M 666.804

Constit. of *Cayaponia tayuya*. Amorph. powder.

22-Ketone: **Cayaponoside C₃**

$C_{35}H_{52}O_{12}$ M 664.789

Constit. of *C. tayuya*. Amorph. powder.

22-Ketone, 25-Ac: **Cayaponoside A₁**

$C_{37}H_{54}O_{13}$ M 706.826

Constit. of *C. tayuya*. Amorph. powder.

23,24-Didehydro (E-): **Cayaponoside D_{3a}**

$C_{35}H_{52}O_{12}$ M 664.789

Constit. of *C. tayuya*. Amorph. powder.

25-Deoxy, 24,25-didehydro: **Cayaponoside B_{6a}**

$C_{35}H_{52}O_{11}$ M 648.789

Constit. of *C. tayuya*. Amorph. powder.

25-Deoxy, 25,26-didehydro: **Cayaponoside B_{6b}**

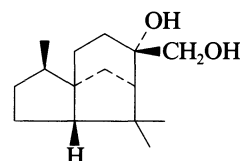
$C_{35}H_{52}O_{11}$ M 648.789

Constit. of *C. tayuya*. Amorph. powder.

Himeno, E. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 986 (*isol, pmr, cmr*)

3,15-Cedranediol**C-10042**

8,12-Cedranediol

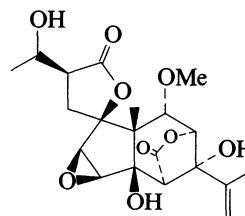


$C_{15}H_{26}O_2$ M 238.369

3 α -form [144841-13-4]

Constit. of *Juniperus chinensis*. Cryst. Mp 136-138°. $[\alpha]_D +7.8^\circ$ (c, 0.5 in MeOH).

Kuo, Y.-H. *et al*, *J. Chem. Res., Synop.*, 1992, 382 (*isol, pmr, cmr*)

Celaenodendrolide I**C-10043**

$C_{20}H_{26}O_9$ M 410.420

Constit. of *Celaenodendron mexicanum*. Needles. Mp 255°. $[\alpha]_D^{20} +18^\circ$ (c, 1 in MeOH).

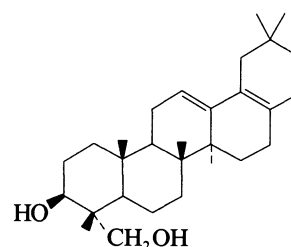
Castañeda, P. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1575 (*isol, pmr, cmr*)

Celsiogenin A**C-10044**

Updated Entry replacing C-00662

28-Nor-12,17-oleanadiene-3 β ,23-diol

[53095-34-4]



$C_{29}H_{46}O_2$ M 426.681

Genin from *Celsia coromandeliana*. Cryst. Mp 170-172°. $[\alpha]_D + 86.8^\circ$ (c, 1 in Py).

23-Deoxy: [6040-30-8]. 28-Nor-12,17-oleanadien-3 β -ol. **Aegiceradienol**. *Aegiceradienol*. *Norechinocystachenol*. Genin from *Aegiceras major*. Cryst. (CHCl₃/MeOH). Mp 189-191°. $[\alpha]_D + 79^\circ$ (c, 3.7 in CHCl₃). Poss. artifact.

Noller, C.R. *et al*, *J. Am. Chem. Soc.*, 1941, **63**, 2238 (*synth*)

Rao, V.K. *et al*, *J. Org. Chem.*, 1962, **27**, 1470 (*isol*)

Hensens, O.D. *et al*, *Tetrahedron Lett.*, 1965, 4639.

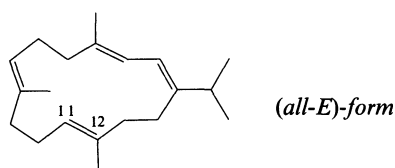
Agarwal, S.K. *et al*, *Indian J. Chem.*, 1974, **12**, 907.

Corey, E.J. *et al*, *J. Am. Chem. Soc.*, 1993, **115**, 8873 (*synth*)

1,3,7,11-Cembratetraene

C-10045

Updated Entry replacing C-00666



C₂₀H₃₂ M 272.473

(*All-E*)-form [64363-64-0] **Cembrene C**. *Isonocembrene A*. α -Pinacene
Constit. of *Sarcophyton ehrenbergi* and *Nephtea* spp.
Oil.

11,12-Epoxy: [68043-37-8]. 11,12-Epoxy-1,3,7-cembratriene. **Epoxyisonocembrene A**

C₂₀H₃₂O M 288.472

Constit. of *Sinularia grayi*. Oil. $[\alpha]_D + 117^\circ$.

(7*S*,8*S*:11*S*,12*S*)-Diepoxide: 7,8:11,12-Diepoxo-1,3-cembradiene

C₂₀H₃₂O₂ M 304.472

Constit. of a *Eunicea* sponge. Cryst. (CH₂Cl₂). Mp 99-101°. $[\alpha]_D - 76.4^\circ$ (c, 0.4 in MeOH).

(1*Z*,3*E*,7*E*,11*E*)-form [37905-11-6] γ -Pinacene

Constit. of *Pinus koraiensis* and *P. sibirica*. Oil.

(1*Z*,3*Z*,7*E*,11*E*)-form [37905-10-5] β -Pinacene

Constit. of *P. koraiensis* and *P. sibirica*. Oil.

[69743-88-0]

Raldugin, V.A. *et al*, *Khim. Prir. Soedin.*, 1971, **7**, 604; *Chem. Nat. Compd. (Engl. Transl.)*, 582 (*isol*, *ir*, *pmr*)

Bowden, B.F. *et al*, *Aust. J. Chem.*, 1978, **31**, 2707 (*isol*)

Vanderah, D.J. *et al*, *J. Org. Chem.*, 1978, **43**, 1614 (*isol*)

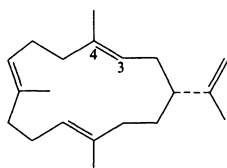
Raldugin, V.A. *et al*, *CA*, 1985, **102**, 149548s (*pmr*, *cmr*, *struct*)

Shin, J. *et al*, *Tetrahedron*, 1993, **49**, 515 (*diepoxide*)

3,7,11,15-Cembratetraene

C-10046

Updated Entry replacing C-00669



C₂₀H₃₂ M 272.473

(*all-E*)-form [31570-39-5] **Cembrene A**. *Neocembrene*. *Neocembrene A*

Widespread in nature. Oil. Bp_{0.8} 150-152°. $[\alpha]_D - 19.7^\circ$ (CHCl₃).

3*S*,4*S*-Epoxy: 3,4-Epoxy-7,11,15-cembratriene

C₂₀H₃₂O M 288.472

Isol. from *Sinularia facile*. Oil. $[\alpha]_D + 49^\circ$ (c, 0.22 in CHCl₃).

3*R*,4*R*:15 ζ ,16-Diepoxide: 3,4:15,16-Diepoxo-7,11-cembradiene

C₂₀H₃₂O₂ M 304.472

Constit. of *Eunicea mammosa*. Oil. $[\alpha]_D^{25} - 23.97^\circ$ (c, 1.46 in CHCl₃).

(3*Z*,7*E*,11*E*)-form [71213-92-8]

Isol. from *Cubitermes umbratus*.

[65622-51-7]

Kitahara, Y. *et al*, *Chem. Lett.*, 1976, 219 (*synth*)

Ravi, B.N. *et al*, *J. Org. Chem.*, 1978, **43**, 2127 (*isol*, *pmr*, *cmr*)

Wiemer, D.F. *et al*, *J. Org. Chem.*, 1979, **44**, 3950 (*struct*)

Kato, T. *et al*, *J. Org. Chem.*, 1980, **45**, 1126 (*synth*)

Bowden, B.F. *et al*, *Aust. J. Chem.*, 1981, **34**, 1551 (*epoxide*)

Vig, O.P. *et al*, *Indian J. Chem., Sect. B*, 1985, **24**, 918 (*synth*)

Ghisalberti, E.L. *et al*, *Aust. J. Chem.*, 1986, **39**, 1703 (*synth*)

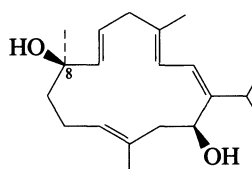
Schwabe, R. *et al*, *Helv. Chim. Acta*, 1988, **71**, 292 (*synth*)

Forkas, I. *et al*, *Helv. Chim. Acta*, 1990, **73**, 1980 (*synth*)

Rodríguez, A.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1101 (*diepoxide*)

1,3,6,11-Cembratetraene-8,14-diol

C-10047



(1*Z*,3*E*,6*E*,8*R*,11*E*,14*S*)-form

C₂₀H₃₂O₂ M 304.472

(1*Z*,3*E*,6*E*,8*R*,11*E*,14*S*)-form [123853-58-7] **Sarcophytol R**

Constit. of *Sarcophyton glaucum*. Oil. $[\alpha]_D^{22} + 12^\circ$ (c, 0.6 in CHCl₃).

(1*Z*,3*E*,6*E*,8*S*,11*E*,14*S*)-form [123930-90-5] **Sarcophytol S**

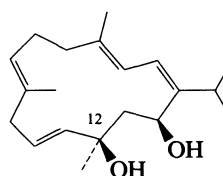
Constit. of *S. glaucum*. Oil. $[\alpha]_D^{20} + 57^\circ$ (c, 0.60 in CHCl₃).

Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2053 (*isol*, *pmr*, *cmr*)

1,3,7,10-Cembratetraene-12,14-diol

C-10048

Updated Entry replacing C-00670



(1*Z*,3*E*,7*E*,10*E*,12*R*,14*S*)-form

C₂₀H₃₂O₂ M 304.472

(1*Z*,3*E*,7*E*,10*E*,12*R*,14*S*)-form [77394-00-4] **Sarcophytol D**

Constit. of *Sarcophyton glaucum*. Cryst. Mp 131-134°. $[\alpha]_D + 125^\circ$ (c, 0.94 in CHCl₃).

(1*Z*,3*E*,7*E*,10*E*,12*S*,14*S*)-form [121421-64-5] **Sarcophytol G**

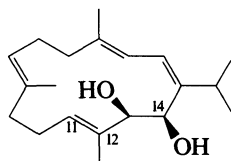
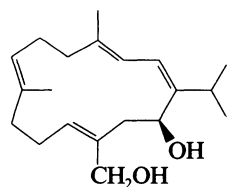
Constit. of *S. glaucum*. Cryst. Mp 122-123°. $[\alpha]_D + 109^\circ$ (c, 3.17 in CHCl₃).

Nakagawa, T. *et al*, *Chem. Pharm. Bull.*, 1981, **29**, 82.

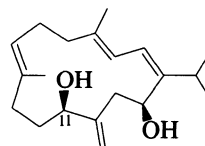
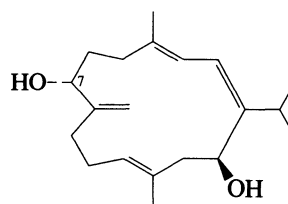
Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 631 (*Sarcophytol G*)

1,3,7,11-Cembratetraene-13,14-diol**C-10049**

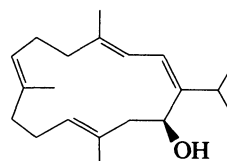
Updated Entry replacing C-00671

 $C_{20}H_{32}O_2$ M 304.472**(1Z,3E,7E,11E,13R,14R)-form** [72629-68-6] *Sarcophytol B*
Constit. of *Sarcophyton glaucum* and the coral *Alcyonium flaccidum*. Cryst. (Me₂CO). Mp 125-126.5°. $[\alpha]_D^{25} + 164^\circ$ (c, 1 in CHCl₃).**14-Ac:** [145900-94-3]. **14-Acetylsarcophytol B** $C_{22}H_{34}O_3$ M 346.509Constit. of a *Sinularia* sp. Oil. $[\alpha]_D^{25} + 235.2^\circ$ (c, 0.6 in CHCl₃).**(1Z,3E,7E,13ξ,14ξ)-form****11ξ,12ξ-Epoxyde, 14-Ac:** [77965-78-7]. **14-Acetoxy-11,12-epoxy-1,3,7-cembratrien-13-ol. Flaccidoxide** $C_{22}H_{34}O_4$ M 362.508Isol. from *A. flaccidum*. Oil. $[\alpha]_D^{24} + 118^\circ$ (c, 2.4 in CHCl₃).**(1Z,3Z,7E,11E,13R,14R)-form** [121421-67-8] *Sarcophytol J*
Constit. of *Sarcophyton glaucum*. Cryst. Mp 115-116°. $[\alpha]_D^{25} - 277^\circ$ (c, 1.5 in CHCl₃).**14-Ac:** [145986-76-1]. **14-Acetylsarcophytol J** $C_{22}H_{34}O_3$ M 346.509Constit. of a *Sinularia* sp. $[\alpha]_D^{25} - 85.6^\circ$ (c, 0.21 in CHCl₃).**(1E,3Z,7E,11E,13R,14R)-form** [123931-78-2] *Sarcophytol K*
Constit. of *S. glaucum*. Oil. $[\alpha]_D^{20} + 20^\circ$ (c, 0.77 in CHCl₃).Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1979, **27**, 2382; 1989, **37**, 631, 2053 (*Sarcophytols*)Kashman, Y. *et al*, *J. Org. Chem.*, 1981, **46**, 3592 (*isol*)Czarkie, D. *et al*, *Tetrahedron*, 1985, **41**, 1049 (*isol*)McMurry, J.E. *et al*, *Tetrahedron Lett.*, 1989, **30**, 1173 (*synth, cryst struct*)Iguchi, K. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1779 (*14-Acetylsarcophytol B*)**1,3,7,11-Cembratetraene-14,20-diol****C-10050** $C_{20}H_{32}O_2$ M 304.472**(1Z,3Z,7E,11Z,14S)-form** [123853-57-6] *Sarcophytol P*
Constit. of *Sarcophyton glaucum*. Oil. $[\alpha]_D^{28} - 66^\circ$ (c, 0.84 in CHCl₃).Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2053 (*isol, pmr, cmr*)**1,3,7,12(20)-Cembratetraene-11,14-diol****C-10051**

Updated Entry replacing C-00672

**(1Z,3E,7E,11R,14S)-form** $C_{20}H_{32}O_2$ M 304.472**(1Z,3E,7E,11R,14S)-form** [121421-65-6] *Sarcophytol I*
Constit. of *Sarcophyton glaucum*. Oil. $[\alpha]_D^{25} - 31^\circ$ (c, 1.3 in CHCl₃).**(1Z,3E,7E,11S,14S)-form** [77393-99-8] *Sarcophytol E*Constit. of *S. glaucum*. Oil. $[\alpha]_D^{25} + 160^\circ$ (c, 1 in CHCl₃).Nakagawa, T. *et al*, *Chem. Pharm. Bull.*, 1981, **29**, 82 (*Sarcophytol E*)Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 631 (*Sarcophytol I*)**1,3,8(19),11-Cembratetraene-7,14-diol****C-10052****(1Z,3E,7R,11E,14S)-form** $C_{20}H_{32}O_2$ M 304.472**(1Z,3E,7R,11E,14S)-form** [121421-66-7] *Sarcophytol H*
Constit. of *Sarcophyton glaucum*. Cryst. Mp 143-145°. $[\alpha]_D^{25} + 147^\circ$ (c, 0.86 in CHCl₃).**Di-Ac:** $C_{24}H_{36}O_4$ M 388.546Constit. of *S. glaucum*. Oil. $[\alpha]_D^{25} + 195^\circ$ (c, 0.85 in CHCl₃).**(1Z,3E,7S,11E,14S)-form** [121340-71-4] *Sarcophytol O*Constit. of *S. glaucum*. Oil. $[\alpha]_D^{25} + 124^\circ$ (c, 1.02 in CHCl₃).Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 631 (*isol, pmr, cmr*)**1,3,7,11-Cembratetraen-14-ol****C-10053**

Updated Entry replacing C-00680

**(1Z,3E,7E,11E,14S)-form** $C_{20}H_{32}O$ M 288.472**(1Z,3E,7E,11E,14S)-form** [72629-69-7] *Sarcophytol A*
Constit. of *Sarcophyton* sp. Oil. $[\alpha]_D^{25} + 115^\circ$.**Ac:** [72629-72-2]. $C_{22}H_{34}O_2$ M 330.509Constit. of *S. spp.* Oil. $[\alpha]_D^{25} + 206.5^\circ$ (c, 1.72 in CHCl₃) (+ 127°).**(1Z,3E,7E,11E,14R)-form**Constit. of *Plexaura flexuosa*. Oil. $[\alpha]_D^{29} - 190.4^\circ$ (c, 1 in CHCl₃).

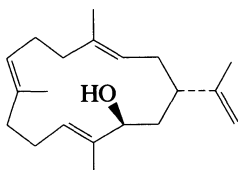
(1Z,3Z,7E,11E,14S)-form [121421-68-9] *Sarcophytol N*
Constit. of *S. glaucum*. Oil. $[\alpha]_D$ –280° (c, 0.77 in CHCl₃).

(1E,3E,7E,11E,14S)-form [123930-91-6] *Sarcophytol F*
Constit. of *S. glaucum*. Oil. $[\alpha]_D$ +57° (c, 0.99 in CHCl₃).

Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1979, **27**, 2387; 1988, **36**, 2331; 1989, **37**, 631, 2053 (*isol, struct, abs config, Sarcophytols*)
Blackman, A.J. *et al*, *Aust. J. Chem.*, 1982, **35**, 1873 (*isol*)
Takayanagi, H. *et al*, *Tetrahedron Lett.*, 1990, **31**, 3317 (*synth*)
Peniston, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 1009 (*isol, pmr, cmr*)
Takahashi, T. *et al*, *J. Org. Chem.*, 1992, **57**, 3521 (*synth*)

3,7,11,15-Cembratetraen-13-ol**C-10054**

Updated Entry replacing C-00685

C₂₀H₃₂O M 288.472

(1S,3E,7E,11E,13S)-form [118628-93-6] *13-Hydroxyneocembrene*

Constit. of *Sarcophyton trocheliophorum*. Oil. $[\alpha]_D^{20}$ –150° (c, 0.2 in MeOH).

11S,12S-Epoxy: 11,12-Epoxy-3,7,15-Cembratrien-13-ol. 11,12-Epoxy-13-hydroxyneocembrene

C₂₀H₃₂O₂ M 304.472

Constit. of *S. trocheliophorum*. Oil. $[\alpha]_D^{20}$ –85° (c, 0.5 in MeOH).

Ketone: [65622-49-3]. 3,7,11,15-Cembratetraen-13-one

C₂₀H₃₀O M 286.456

Constit. of an unidentified soft coral.

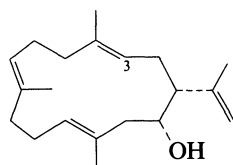
(1S,3E,7E,11Z)-form

13-Ketone: Constit. of an unidentified soft coral. Oil. $[\alpha]_D$ –20.56° (c, 5.3 in CCl₄).

Ravi, B.N. *et al*, *J. Org. Chem.*, 1978, **43**, 2127 (*ketones*)
Suleimenova, A.M. *et al*, *Khim. Prir. Soedin.*, 1988, **24**, 535; *Chem. Nat. Compd. (Engl. Transl.)*, 453 (*isol, pmr, cmr, cryst struct*)

3,7,11,15-Cembratetraen-14-ol**C-10055**

Updated Entry replacing C-00686

**(1α,3E,7E,11E,14α)-form**C₂₀H₃₂O M 288.472

(1α,3E,7E,11E,14α)-form

3α,4α-Epoxyde: [65622-50-6]. 3,4-Epoxy-7,11,15-cebratrien-14-ol

C₂₀H₃₂O₂ M 304.472

Constit. of an unidentified soft coral.

3α,4α-Epoxyde, 14-ketone: [65622-48-2]. 3,4-Epoxy-7,11,15-cebratrien-14-one

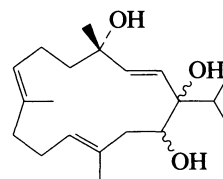
C₂₀H₃₀O₂ M 302.456

Constit. of an unidentified soft coral. Cryst. (Et₂O). Mp 66°. $[\alpha]_D$ +38.65° (c, 4.16 in CHCl₃).

(1ξ,3E,7E,11E,14ξ)-form [95772-53-5] *14-Hydroxyneocembrene*

Constit. of *Sinularia mayi*. Oil. $[\alpha]_D$ –30.3° (c, 0.9 in CHCl₃).

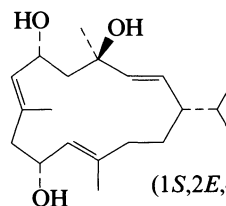
Ravi, B.N. *et al*, *J. Org. Chem.*, 1978, **43**, 2127 (*epoxides*)
Aoki, M. *et al*, *Bull. Chem. Soc. Jpn.*, 1985, **58**, 779.

2,7,11-Cembratriene-1,4,14-triol**C-10056**C₂₀H₃₄O₃ M 322.487

(1ξ,2E,4S,7E,11E,14ξ)-form [123931-77-1] *Sarcophytol Q*

Constit. of *Sarcophyton glaucum*. Oil. $[\alpha]_D^{26}$ +79° (c, 4.18 in CHCl₃).

Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2053 (*isol, pmr, cmr*)

2,7,11-Cembratriene-4,6,10-triol**C-10057****(1S,2E,4R,6R,7E,10R,11E)-form**C₂₀H₃₄O₃ M 322.487

(1S,2E,4R,6R,7E,10R,11E)-form [149403-69-0]

Constit. of Greek tobacco. Oil. $[\alpha]_D$ +102° (c, 0.85 in CHCl₃).

10-Ketone: [149403-72-5]. 4,6-Dihydroxy-2,7,11-cebratrien-10-one

C₂₀H₃₂O₃ M 320.471

Constit. of Greek tobacco. Oil. $[\alpha]_D$ +307° (c, 0.92 in EtOH).

(1S,2E,4R,6R,7E,10S,11E)-form [149403-70-3]

Constit. of Greek tobacco. Cryst. Mp 107-108°. $[\alpha]_D$ +33° (c, 0.83 in CHCl₃).

(1S,2E,4R,6R,7E,10S,11Z)-form [149403-71-4]

Constit. of Greek tobacco. Oil. $[\alpha]_D$ +102° (c, 0.87 in CHCl₃).

(1S,2E,4S,6R,7E,10R,11E)-form [149403-68-9]

Constit. of Greek tobacco. Oil. $[\alpha]_D$ +111° (c, 0.92 in CHCl₃).

10-Ketone: [149312-89-0].

C₂₀H₃₂O₃ M 320.471

Constit. of Greek tobacco. Oil. $[\alpha]_D$ +383° (c, 0.83 in CHCl₃).

(1S,2E,4S,6R,7E,10S,11E)-form [149403-67-8]

Constit. of Greek tobacco. Cryst. Mp 92-93.5°. $[\alpha]_D$ +36° (c, 0.63 in CHCl₃).

6-Ketone: [149312-90-3]. 4,10-Dihydroxy-2,7,11-cebratrien-6-one

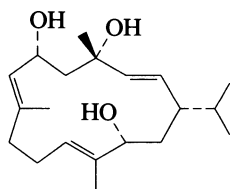
C₂₀H₃₂O₃ M 320.471

Constit. of Greek tobacco. Oil. $[\alpha]_D$ –45° (c, 0.22 in CHCl₃).

Olsson, E. *et al*, *Tetrahedron*, 1993, **49**, 4975 (*isol, pmr, cmr, cryst struct*)

2,7,11-Cembratriene-4,6,13-triol

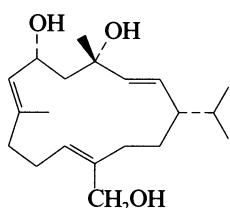
C-10058



$C_{20}H_{34}O_3$ M 322.487
(1S,2E,4R,6R,7E,11E,13R)-form [146564-66-1]
 Constit. of the flowers of Greek tobacco. Cryst. Mp
 127-129°. $[\alpha]_D^{25} + 136^\circ$ (c, 0.2 in $CHCl_3$).
 [146609-89-4, 146609-95-2, 146609-96-3]
 Forsblom, I. *et al*, *Acta Chem. Scand.*, 1993, **47**, 80 (*isol*, *pmr*, *cmr*,
cryst struct)

2,7,11-Cembratriene-4,6,20-triol

C-10059

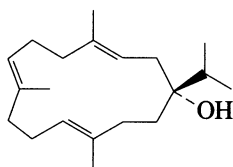


$C_{20}H_{34}O_3$ M 322.487
(1S,2E,4S,6R,7E,11Z)-form [146609-90-7]
 Constit. of the flowers of Greek tobacco. Oil. $[\alpha]_D$
 $+ 105^\circ$ (c, 0.92 in $CHCl_3$).
 [146564-67-2]
 Forsblom, I. *et al*, *Acta Chem. Scand.*, 1993, **47**, 80 (*isol*, *pmr*, *cmr*)

3,7,11-Cembratrien-1-ol

C-10060

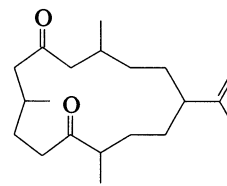
Updated Entry replacing C-00704

**(1R,3E,7E,11E)-form**

$C_{20}H_{34}O$ M 290.488
(1R,3E,7E,11E)-form [66648-97-3] *Sarcophytol M*
 Constit. of *Sarcophyton glaucum*. Oil. $[\alpha]_D + 57^\circ$ (c, 0.94
 in $CHCl_3$).
(1S,3E,7E,11E)-form [67814-27-1] *Serratol. Cembrenol*
 Constit. of *Boswellia carteri* and *B. serrata*. Oil. Bp₁
 150°. $[\alpha]_D^{20} - 152.2^\circ$ (c, 0.4 in EtOH).
 [67921-02-2]
 Pardhy, R.S. *et al*, *Indian J. Chem., Sect. B*, 1978, **16**, 171 (*isol*)
 Klein, E. *et al*, *Tetrahedron Lett.*, 1978, 349 (*abs config*)
 Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 631
 (*Sarcophytol M*)

15-Cembrene-6,11-dione

C-10061



$C_{20}H_{34}O_2$ M 306.487
 Constit. of *Eunicea mammosa*. Semisolid. $[\alpha]_D^{25} - 9.09^\circ$ (c,
 0.44 in $CHCl_3$).
 Rodriguez, A.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1101 (*isol*,
pmr, *cmr*)

Cephalaroside C

C-10062

Dipsacoside A

[60454-64-0]

 $C_{41}H_{66}O_{12}$ M 750.965

Triterpenoid glycoside of unknown struct. Constit. of
 flowers of *Cephalaria kotchyi*. Cryst. (EtOH). Mp 226-
 230°. $[\alpha]_D^{20} + 13^\circ$ (c, 2.4 in EtOH).

Aliiev, A.M. *et al*, *Khim. Prir. Soedin.*, 1976, **12**, 264; *Chem. Nat.*
Compd. (Engl. Transl.), 238 (*isol*)
 Aliiev, A.M. *et al*, *Rastit. Resur.*, 1981, **17**, 602 (*occur*)

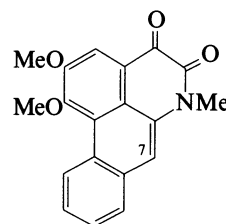
Cepharadione B

C-10063

Updated Entry replacing C-00739

1,2-Dimethoxy-6-methyl-4H-dibenzo[de,g]quinoline-4,5(6H)-
dione, 9CI

[55610-02-1]

 $C_{19}H_{15}NO_4$ M 321.332

Alkaloid from the callus tissue of *Stephania cepharantha*
 and the woody roots of *Piper auritum*. Also detected in
 the woody roots of *P. sanctum* (Menispermaceae,
 Piperaceae). Possible biogenetic intermediate of
 Aristololactams. Orange needles (EtOH). Mp 267-268°
 (255-262°, 263-264°).

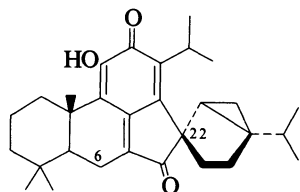
N-De-Me: [57576-41-7]. *Norcepharadione B* $C_{18}H_{13}NO_4$ M 307.305

Alkaloid from the callus tissue of *S. cepharantha*
 (Menispermaceae). Mp 304-307° dec.

7-Chloro, N-de-Me: *7-Chloro-6-demethylcepharadione B* $C_{18}H_{12}ClNO_4$ M 341.750Alkaloid from *Houttuynia cordata* (Saurauaceae).Akasu, M. *et al*, *Tetrahedron Lett.*, 1974, 3609 (*uv*, *ir*, *pmr*, *ms*,
struct)Hänsel, R. *et al*, *J. Nat. Prod. (Lloydia)*, 1975, **38**, 529 (*isol*, *uv*, *ir*,
pmr, *ms*)Akasu, M. *et al*, *Phytochemistry*, 1975, **14**, 1673 (*uv*, *ir*, *pmr*, *ms*,
struct, *Norcepharadione B*)Hänsel, R. *et al*, *Phytochemistry*, 1976, **15**, 1323 (*occur*)Saä, J.M. *et al*, *Tetrahedron Lett.*, 1976, 601 (*synth*, *uv*, *ir*, *ms*)Kunitomo, J. *et al*, *Yakugaku Zasshi*, 1980, **100**, 337; *CA*, **93**,
95454h (*synth*)Jong, T.T. *et al*, *J. Chin. Chem. Soc. (Taipei)*, 1993, **40**, 301; *CA*,
119, 135624c (*7-Chloro-6-demethylcepharadione B*)

Chamaecydin

Updated Entry replacing C-00832
[86746-82-9]



Absolute
configuration

$C_{30}H_{40}O_3$ M 448.644

Constit. of seed of *Chamaecyparis obtusa* and *Cryptomeria japonica*. Yellow prisms. Mp 196-197°. $[\alpha]_D^{25} +40^\circ$ (c, 0.96 in $CHCl_3$).

22-Epimer: [86699-53-8]. **Isochamaecydin**

$C_{30}H_{40}O_3$ M 448.644

From *Chamaecyparis obtusa*. Yellow needles. Mp 213-214°. $[\alpha]_D^{25} +226^\circ$ (c, 0.74 in $CHCl_3$).

6 α -Hydroxy: [86699-52-7]. **Chamaecydinol**. 6 α -Hydroxychamaecydin

$C_{30}H_{40}O_4$ M 464.644

From *Chamaecyparis obtusa* and *Cryptomeria japonica*. Yellow prisms. Mp 220-221°. $[\alpha]_D^{25} -113.8^\circ$ (c, 0.91 in $CHCl_3$).

6 β -Hydroxy: **6 β -Hydroxychamaecydin**

$C_{30}H_{40}O_4$ M 464.644

Constit. of *Cryptomeria japonica*. Orange cryst. Mp 206-208°. $[\alpha]_D^{25} +100^\circ$ (c, 0.8 in $CHCl_3$).

6-Oxo, 21 α -alcohol: **10' α -Hydroxycryptoquinone**

$C_{30}H_{40}O_4$ M 464.644

Constit. of *Cryptomeria japonica*. Orange cryst. Mp 210-212°. $[\alpha]_D^{25} +40^\circ$ (c, 0.5 in $CHCl_3$).

6-Oxo, 21 β -alcohol: **10' β -Hydroxycryptoquinone**

$C_{30}H_{40}O_4$ M 464.644

Constit. of *Cryptomeria japonica*. Orange cryst. Mp 202-203°.

Hirose, Y. *et al*, *Tetrahedron Lett.*, 1983, **24**, 1535 (*isol, cryst struct*)

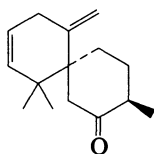
Shibuya, T., *Phytochemistry*, 1992, **31**, 4289 (*isol, pmr, cmr*)

Su, W.-C. *et al*, *Phytochemistry*, 1993, **34**, 779 (*isol, pmr, cmr*)

7(14),9-Chamigradien-2-one

2,5(14)-Chamigradien-8-one

C-10065



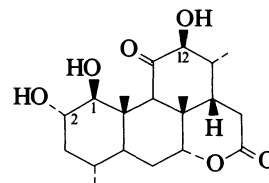
$C_{15}H_{22}O$ M 218.338

Constit. of *Laurencia flexilis*. Oil. $[\alpha]_D^{25} -28.0^\circ$ (c, 0.25 in $CHCl_3$).

De Nuys, R. *et al*, *Phytochemistry*, 1993, **34**, 725 (*isol, pmr, cmr*)

Chaparrolid

Updated Entry replacing C-00853
[33512-38-8]



$C_{20}H_{30}O_6$ M 366.453

Bitter principle from *Castela nicholsoni*. Cryst. + $1H_2O$ (EtOH or Me_2CO). Mp 125-130°.

1-Ketone: [4283-48-1]. **Shinjulactone H**

$C_{20}H_{28}O_6$ M 364.438

Isol. from *Ailanthus altissima*. Cryst. Mp 135-139°. $[\alpha]_D^{21} -14^\circ$ (c, 3.9 in EtOH).

1-Ketone, 12-Ac: [4283-49-2]. **Shinjulactone L**

$C_{22}H_{30}O_7$ M 406.475

Constit. of *A. altissima*. Cryst. (Me_2CO/C_6H_6). Mp 261-262°. $[\alpha]_D^{26} -41^\circ$ (c, 0.65 in $CHCl_3$).

1-Epimer: **Castelalin**

$C_{20}H_{30}O_6$ M 366.453

Constit. of *Castela tortuosa*. Amorph. powder (EtOAc/hexane). Mp 205-207°.

2-Ketone, 1,12-diepimer: [145204-90-6]. **Chaparramarin**

$C_{20}H_{28}O_6$ M 364.438

Constit. of *C. tortuosa*. Amorph. powder. Mp 284-290°.

Mitchell, R.E. *et al*, *Phytochemistry*, 1971, **10**, 411 (*Chaparrolid*)

Ishibashi, M. *et al*, *Bull. Chem. Soc. Jpn.*, 1984, **57**, 2013 (*Shinjulactones*)

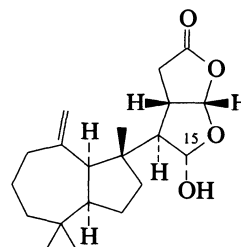
Nakamura, H. *et al*, *J. Org. Chem.*, 1992, **57**, 2223 (*synth*)

Kubo, I. *et al*, *Phytochemistry*, 1992, **31**, 3262; 1993, **33**, 461 (*Castelalin, Chaparramarin*)

Chelviolene A

[135886-54-3]

C-10067



$C_{20}H_{30}O_4$ M 334.455

Constit. of *Chelonaplysilla violacea*. Cryst. (EtOAc/hexane). Mp 161-163°. $[\alpha]_D +6^\circ$ (c, 1 in $CHCl_3$).

15-Epimer: [149952-32-9]. **Chelviolene B**

$C_{20}H_{30}O_4$ M 334.455

Constit. of *C. violacea*. Cryst. (hexane). Mp 200°.

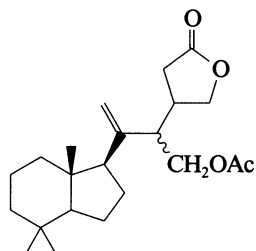
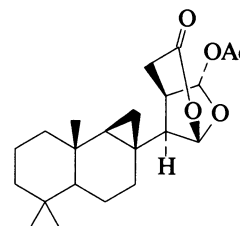
Bergquist, P.R. *et al*, *Aust. J. Chem.*, 1993, **46**, 623 (*isol, pmr, cmr*)

Chelviolene C

C-10068

Chelviolin

C-10072

 $C_{22}H_{34}O_4$ M 362.508Constit. of *Chelonaplysilla violacea*. Gum.Bergquist, P.R. *et al*, *Aust. J. Chem.*, 1993, **46**, 623 (*isol*, *pmr*, *cmr*) $C_{22}H_{32}O_5$ M 376.492Constit. of *Chelonaplysilla violacea*. Oil.Bergquist, P.R. *et al*, *Aust. J. Chem.*, 1993, **46**, 623 (*isol*, *pmr*, *cmr*)

Chelviolene D

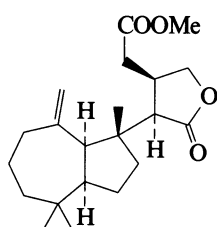
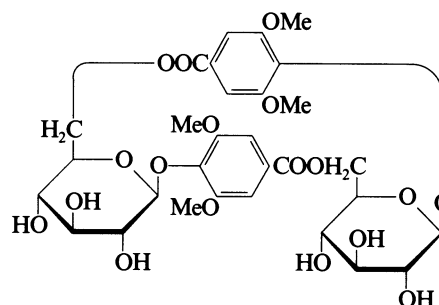
C-10069

Chemochinenoside A

C-10073

[149864-70-0]

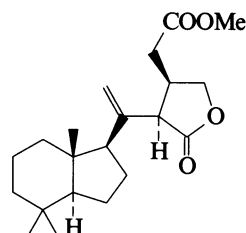
[142937-46-0]

 $C_{21}H_{32}O_4$ M 348.481Constit. of *Chelonaplysilla violacea*. Gum.Bergquist, P.R. *et al*, *Aust. J. Chem.*, 1993, **46**, 623 (*isol*, *pmr*, *cmr*) $C_{30}H_{36}O_{18}$ M 684.604Constit. of *Clematis chinensis*.Song, C. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 119 (*isol*, *pmr*, *ms*, *struct*)

Chelviolene E

C-10070

[149952-33-0]

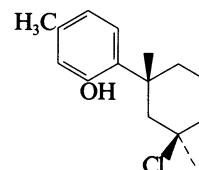
 $C_{21}H_{32}O_4$ M 348.481Constit. of *Chelonaplysilla violacea*. Oil.Bergquist, P.R. *et al*, *Aust. J. Chem.*, 1993, **46**, 623 (*isol*, *pmr*, *cmr*)

2-(3-Chloro-1,3-dimethylcyclohexyl)-5-methylphenol

C-10074

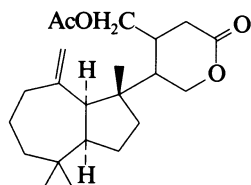
1-Chloro-3-(2-hydroxy-4-methylphenyl)-1,3-dimethylcyclohexane

[145382-77-0]

 $C_{15}H_{21}ClO$ M 252.783Constit. of *Laurencia majuscula*. Yellow oil. $[\alpha]_D +14^\circ$ (c, 1 in $CHCl_3$).de Nys, R. *et al*, *Aust. J. Chem.*, 1992, **45**, 1611 (*isol*, *pmr*, *cmr*)

Chelviolene F

C-10071

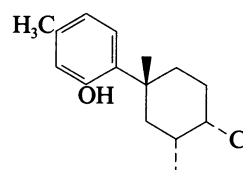
 $C_{22}H_{34}O_4$ M 360.492Constit. of *Chelonaplysilla violacea*. Oil.Bergquist, P.R. *et al*, *Aust. J. Chem.*, 1993, **46**, 623 (*isol*, *pmr*, *cmr*)

2-(4-Chloro-1,3-dimethylcyclohexyl)-5-methylphenol

C-10075

4-Chloro-1-(2-hydroxy-4-methylphenyl)-1,3-dimethylcyclohexane

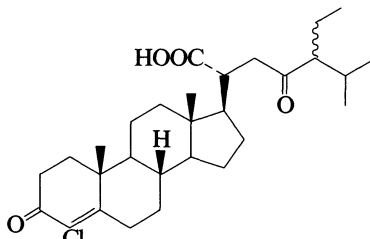
[145382-78-1]

 $C_{15}H_{21}ClO$ M 252.783

Constit. of *Laurencia majuscula*. Brown oil. $[\alpha]_D^{25} +47^\circ$ (c, 0.1 in CHCl_3).

de Nys, R. *et al*, *Aust. J. Chem.*, 1992, **45**, 1611 (*isol*, *pmr*, *cmr*)

4-Chloro-3,23-dioxostigmast-4-en-21-oic acid **C-10076**



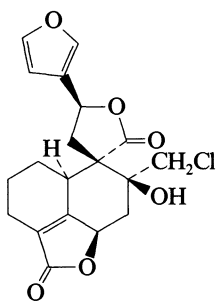
$\text{C}_{29}\text{H}_{43}\text{ClO}_4$ M 491.109

24 ξ -form [149260-75-3] *Kiheisterone E*

Constit. of a *Strongylacidon* sp.

Carney, J.R. *et al*, *J. Org. Chem.*, 1993, **58**, 3460 (*isol*, *pmr*, *cmr*)

17-Chloro-15,16-epoxy-8-hydroxy-19-nor-4,13(16),14-clerodatriene-18,6:20,12-dioidide **C-10077**



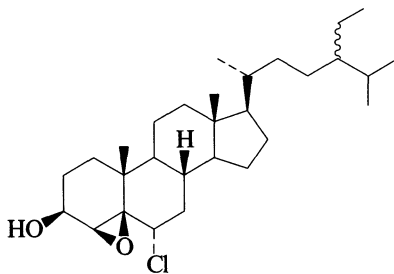
$\text{C}_{19}\text{H}_{19}\text{ClO}_6$ M 378.808

(ent-6 α ,8 α ,10 β ,12 β H)-form [140369-33-1] *Teupernin D*⁺

Constit. of *Teucrium pernyi*. Cryst. Mp 205-207 $^\circ$.

Xie, N. *et al*, *Chin. Chem. Lett.*, 1991, **2**, 845 (*isol*, *pmr*, *cryst struct*)

6-Chloro-4,5-epoxystigmastan-3-ol **C-10078**



$\text{C}_{29}\text{H}_{49}\text{ClO}_2$ M 465.158

(3 β ,4 β ,5 β ,7 α ,24 ξ)-form

3-O- β -D-Glucopyranoside: [149864-63-1]. *Blattellastanoside A*

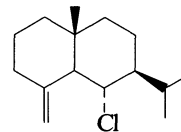
$\text{C}_{35}\text{H}_{59}\text{ClO}_7$ M 627.300

Constit. of the aggregation pheromone of cockroach *Blattella germanica*.

Mori, K. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 665 (*synth*)

Sakuma, M. *et al*, *Tetrahedron Lett.*, 1993, **34**, 6059 (*isol*, *pmr*, *cmr*)

6-Chloro-4(15)-eudesmene **C-10079**



$\text{C}_{15}\text{H}_{25}\text{Cl}$ M 240.815

6 α -form [149725-06-4] *Acanthene A*

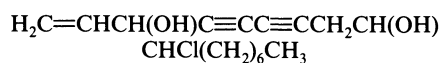
Constit. of an *Acanthella* sp. and *Cadlina luteomarginata*. Oil.

Burgoyne, D.L. *et al*, *Tetrahedron*, 1993, **49**, 4503 (*isol*, *pmr*, *cmr*)

10-Chloro-1-heptadecene-4,6-diyne-3,9-diol **C-10080**

Panaxydol chlorohydrin

[111103-92-5]



$\text{C}_{17}\text{H}_{25}\text{ClO}_2$ M 296.836

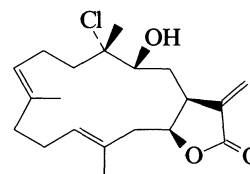
Isol. from Korean ginseng root. Show cytotoxic activity against L1210 cells. λ_{max} 266nm, 255, 242, 229, 219 (EtOH).

Kitagawa, I. *et al*, *Yakugaku Zasshi*, 1987, **107**, 495 (*synth*)

Ahn, B.Z. *et al*, *Arch. Pharm. (Weinheim, Ger.)*, 1989, **322**, 223 (*isol*, *props*, *cmr*, *uv*, *ir*)

Hirakura, K. *et al*, *Phytochemistry*, 1991, **30**, 3327 (*isol*, *pmr*)

4-Chloro-3-hydroxy-7,11,15(17)-cembratrien-16,14-olide **C-10081**



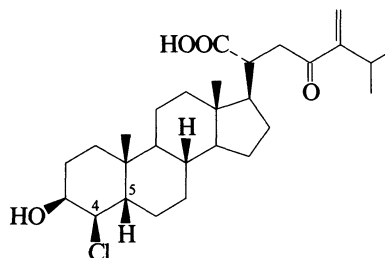
$\text{C}_{20}\text{H}_{29}\text{ClO}_3$ M 352.900

(3S,4S,7E,11E,14S)-form

Constit. of *Eunicea mammosa*. Cryst. $[\alpha]_D^{25} -22.36^\circ$ (c, 0.76 in CHCl_3).

Rodriguez, A.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1101 (*isol*, *pmr*, *cmr*, *cryst struct*)

4-Chloro-3-hydroxy-23-oxoergost-24(28)-en-21-oic acid **C-10082**



$\text{C}_{28}\text{H}_{43}\text{ClO}_4$ M 479.098

(3 β ,4 β ,5 β)-form [149260-74-2] *Kiheisterone D*

Constit. of a *Strongylacidon* sp. $[\alpha]_D +46^\circ$ (c, 0.57 in CHCl_3).

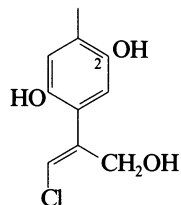
4,5-Didehydro: [149260-73-1]. 4-Chloro-3,23-dioxoergosta-4,24(28)-dien-21-oic acid. *Kiheisterone C*

$C_{28}H_{41}ClO_4$ M 477.082

Constit. of a *S. sp.* $[\alpha]_D^{20} +71^\circ$ (c, 0.55 in $CHCl_3$).

Carney, J.R. *et al*, *J. Org. Chem.*, 1993, **58**, 3460 (*isol*, *pmr*, *cmr*)

9-Chloro-*p*-mentha-1,3,5,8-tetraene-2,5,10-triol C-10083



$C_{10}H_{11}ClO_3$ M 214.648

2-*Me ether*: [150641-33-1]. 9-Chloro-6-methoxy-*p*-mentha-1,3,5,8-tetraene-3,10-diol

$C_{11}H_{13}ClO_3$ M 228.675

Constit. of *Inula crithmoides*. Oil.

2-*Me ether*, 10-*Ac*: [150641-32-0].

$C_{13}H_{15}ClO_4$ M 270.712

Constit. of *I. crithmoides*. Oil.

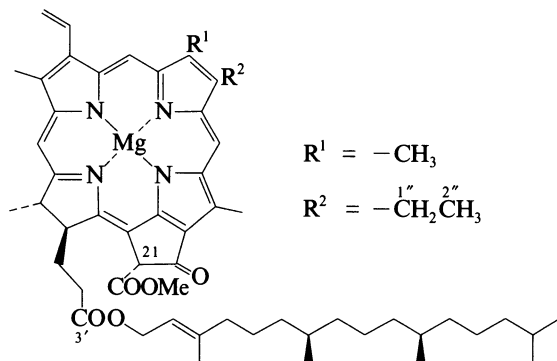
Marco, J.A. *et al*, *Phytochemistry*, 1993, **33**, 875 (*isol*, *pmr*, *cmr*)

Chlorophyll a

C-10084

Updated Entry replacing C-01047

[3,7,11,15-Tetramethyl-2-hexadecenyl 9-ethenyl-14-ethyl-21-(methoxycarbonyl)-4,8,13,18-tetramethyl-20-oxo-3-phorbinepropanoate(2-)- $N^{23}, N^{24}, N^{25}, N^{26}$]magnesium, 9CI [479-61-8]



$C_{55}H_{72}MgN_4O_5$ M 893.503

Green pigment of leaves of plants, occurring together with Chlorophyll b. Can be obt. readily in pure form from the blue-green alga *Anacystis nidulans*. Photosynthetic pigment. Dark-green greasy powder (pet. ether) or leaflets. Mp 117-120°. $[\alpha]_D^{20} -262^\circ$ (Me_2CO). Dilute acid removes Mg to form Phaeophytin a, P-00902. Hydrol. by Chlorophyllase (or warm acid) → Phaeophorbide a, P-10092. Acid catalysed methanolysis → see Phaeophorbide a, P-10092. Alkaline hydrol. → Chlorin e₆, C-00939. Other esters e.g. geranylgeranyl are found in various microorganisms.

21-*Epimer*: [22309-13-3]. **Chlorophyll a'**

$C_{55}H_{72}MgN_4O_5$ M 893.503

Isol. from chlorophyll extracts.

3'-*Free acid*: [14897-06-4]. **Chlorophyllide a**

$C_{35}H_{34}MgN_4O_5$ M 614.982

Pigment from various spp. Intermed. in chlorophyll biosynthesis.

21-*Hydroxy*: [71699-04-2]. **13²-Hydroxychlorophyll a**

$C_{55}H_{72}MgN_4O_6$ M 909.502

Isol. from chlorophyll extracts. Artifact.

6-*Chloro*, 21-*hydroxy*: [91488-37-8]. 20-*Chloro*-13²-hydroxychlorophyll a. **Chlorophyll RCI**

$C_{55}H_{71}ClMgN_4O_6$ M 943.947

Isol. from chlorophyll extracts. Probable artifact.

1',2'-*Didehydro*: 4-*Vinyl*-4-*desethylchlorophyll a*

$C_{55}H_{70}MgN_4O_5$ M 891.487

Major chlorophyll from maize mutant.

[117288-86-5, 118626-30-5]

Woodward, R.B. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 3800 (*synth*)

Fleming, I., *Nature (London)*, 1967, **216**, 151 (*abs config*)

Brockman, H. *et al*, *Justus Liebigs Ann. Chem.*, 1974, 1007.

Chow, H.C. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 7230 (*cryst struct*)

Chem. Biochem. Plant Pigm., (Ed. Goodwin, T.W.), Academic Press, London, 1976 (*book*)

Schoch, S. *et al*, *Z. Pflanzenphysiol.*, 1977, **83**, 427 (*isol*)

Gleixner, G. *et al*, *Experientia*, 1982, **38**, 303 (*purifn*)

Bazzaz, M.B. *et al*, *Tetrahedron Lett.*, 1982, **23**, 1211

(*Divinylchlorophyll a*)

Lotjonen, S. *et al*, *Org. Magn. Reson.*, 1983, **21**, 757 (*cmr*)

Smith, K.M. *et al*, *Org. Magn. Reson.*, 1984, **22**, 779 (*pmr*)

Leeper, F.J., *Nat. Prod. Rep.*, 1985, **2**, 19, 561; 1987, **4**, 441; 1989, **6**, 171 (*rev*, *biosynth*)

Grottemeyer, J. *et al*, *J. Am. Chem. Soc.*, 1986, **108**, 4233 (*ms*)

Fujiwara, M. *et al*, *J. Phys. Chem.*, 1986, **90**, 250, 5646 (*ir*, *raman*)

Tasumi, M. *et al*, *Adv. Spectrosc. (Chichester, U.K.)*, 1987, **14**, 407 (*rev*, *ir*, *raman*)

Senge, M. *et al*, *FEBS Lett.*, 1988, **234**, 215 (*Chlorophyll RCI*)

Senge, M. *et al*, *Z. Naturforsch., C*, 1988, **43**, 515 (*13²-*

Hydroxychlorophyll a)

Okazaki, T. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 3303 (*biosynth*)

Grese, R.P. *et al*, *J. Am. Soc. Mass Spectrom.*, 1990, **1**, 72

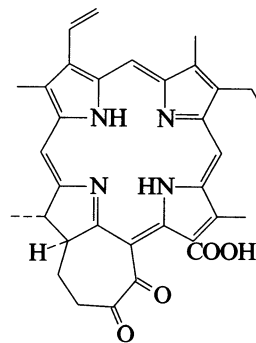
(*Chlorophyll RCI*)

Woodward, R.B. *et al*, *Tetrahedron*, 1990, **46**, 7599 (*synth*, *rev*)

Giacometti, G. *et al*, *Gazz. Chim. Ital.*, 1991, **121**, 457 (*pmr*)

Chlorophyllonic acid a

C-10085



Relative configuration

$C_{33}H_{32}N_4O_4$ M 548.640

Me ester: [143070-43-3].

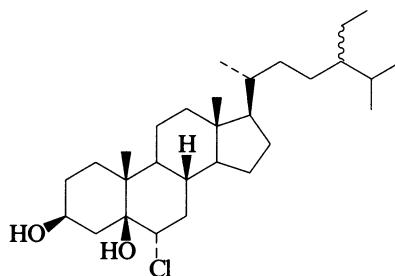
$C_{34}H_{34}N_4O_4$ M 562.667

Isol. from the clam *Ruditapes philippinarum*. Brown plates ($CHCl_3/MeOH$).

Yamamoto, K. *et al*, *Tetrahedron Lett.*, 1992, **33**, 2587 (*struct*)

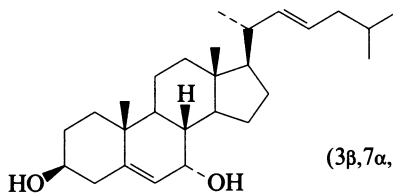
6-Chlorostigmastane-3,5-diol

C-10086

C₂₉H₅₁ClO₂ M 467.173**(3β,5β,6α,24ξ)-form**3-O-β-D-Glucopyranoside: [151397-98-7]. **Blattellastanoid B**C₃₅H₆₁ClO₇ M 629.315Constit. of the aggregation pheromone of cockroach *Blattella germanica*.Mori, K. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 665 (synth)Sakuna, M. *et al*, *Tetrahedron Lett.*, 1993, 34, 6059 (isol, pmr, cmr)

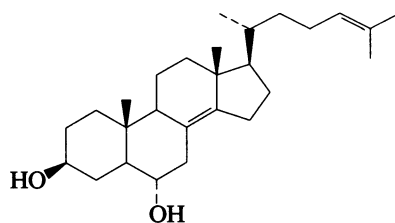
Cholesta-5,22-diene-3,7-diol

C-10087

**(3β,7α,22E)-form**C₂₇H₄₄O₂ M 400.643**(3β,7α,22E)-form** [145075-03-2]Constit. of *Cliona copiosa*.**(3β,7β,22E)-form** [145075-02-1]Constit. of *C. copiosa*.Notaro, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, 55, 1588 (isol, pmr, ms)

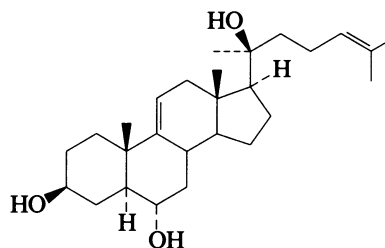
Cholesta-8(14),24-diene-3,6-diol

C-10088

C₂₇H₄₄O₂ M 400.643**(3β,7α)-form** [147395-09-3]Constit. of a *Dysidea* sponge from the South China Sea.Cryst. Mp 184-185°. [α]_D²⁵ +16.7° (c, 0.036 in MeOH).Zhang, Y.L. *et al*, *Chin. Chem. Lett.*, 1992, 3, 981 (isol, pmr, cmr)

Cholesta-9(11),24-diene-3,6,20-triol

C-10089

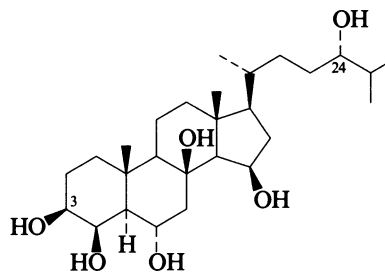
C₂₇H₄₄O₃ M 416.643**(3β,5α,6α,20S)-form**

3-O-Sulfate:

C₂₇H₄₄O₆S M 496.707Isol. from the starfish *Asterias amurensis* (as Na salt).6-O-[6-Deoxy-β-D-glucopyranosyl-(1→2)[β-D-galactopyranosyl-(1→3)-6-deoxy-β-D-galactopyranosyl-(1→2)-6-deoxy-β-D-galactopyranosyl-(1→4)]-α-L-arabinopyranosyl-(1→3)-6-deoxy-β-D-glucopyranoside], 3-O-sulfate: [136803-86-6]. **Forbeside D**C₆₂H₁₀₂O₃₁S M 1375.535Isol. from *A. forbesi*. Powder (as Na salt). Mp 213° dec. (Na salt). [α]_D -4.7° (c, 0.6 in H₂O).Riccio, R. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1988, 1337 (isol, sulfate)Findlay, J.A. *et al*, *Can. J. Chem.*, 1991, 69, 1134 (*Forbeside D*)

Cholestane-3,4,6,8,15,24-hexol

C-10090

C₂₇H₄₈O₆ M 468.673**(3β,4β,5α,6α,15β,24S)-form**

24-O-β-D-Xylopyranoside, 3-O-Sulfate: [117585-46-3].

Glacialoside BC₃₂H₅₆O₁₃S M 680.853Isol. from the starfish *Marthasterias glacialis* (as Na salt). [α]_D +2° (c, 0.1 in MeOH).**(3β,4β,5α,6α,15β,24ξ)-form**24-O-[2,4-Di-O-methyl-β-D-xylopyranosyl-(1→2)-α-L-arabinofuranoside]: [102130-11-0]. **Culcitoside C₁**C₃₉H₆₈O₁₄ M 760.958Isol. from the starfishes *Culcita novaeguineae* and *Linckia guildingi*. Mp 245-248°. [α]_D -35.8° (c, 0.6 in MeOH).**(3β,4β,5α,6β,15α,24S)-form** [99481-54-6]Isol. from the starfish *Gomophia watsoni*.

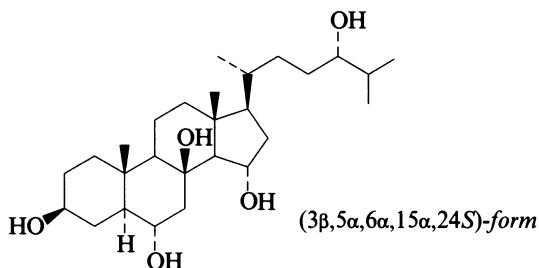
3-O-(2,4-Di-O-methyl-β-D-xylopyranoside): [129369-40-0].

Forbeside I. Laeviuscoloside IC₃₄H₆₀O₁₀ M 628.842Isol. from the starfish *Asterias forbesi* and *Henricia laeviuscola*. Powder. Mp 214° dec. [α]_D -8.0° (c, 0.6 in H₂O).3-O-(2,4-Di-O-methyl-β-D-xylopyranoside), 24-O-α-L-arabinofuranoside: [129369-39-7]. **Forbeside J**C₃₉H₆₈O₁₄ M 760.958Isol. from *A. forbesi*. Powder. Mp 250° dec. [α]_D -17.4° (c, 1 in H₂O).

- Riccio, R. *et al*, *Gazz. Chim. Ital.*, 1985, **115**, 405; 1990, **120**, 155 (isol)
 Kicha, A.A. *et al*, *Khim. Prir. Soedin.*, 1985, **21**, 801; *Chem. Nat. Compd. (Engl. Transl.)*, 760 (Culcitioside C₁)
 Riccio, R. *et al*, *J. Nat. Prod. (Lloydia)*, 1988, **51**, 989 (Glacialoside B)
 Findlay, J.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 428 (Forbesides)

Cholestane-3,6,8,15,24-pentol, 9CI**C-10091**

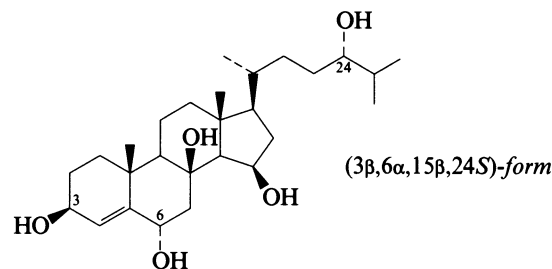
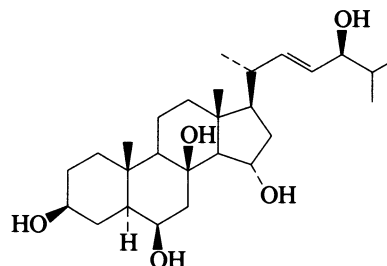
Updated Entry replacing C-01150

C₂₇H₄₈O₅ M 452.673**(3β,5α,6α,15α,24S)-form** [117121-29-6]Occurs in starfish *Asterina pectinifera*. Needles (MeOH aq.). Mp 236-239°. [α]_D +53.0° (c, 1.02 in MeOH).**24-Sulfate:**C₂₇H₄₈O₈S M 532.737Constit. of *Aphelasterias japonica*. [α]_D +23.5° (c, 0.5 in MeOH).**24-O-β-D-Xylopyranoside, 3-sulfate: Aphelasteroside A**C₃₂H₅₆O₁₂S M 664.853Constit. of *A. japonica*. [α]_D -6.0° (c, 0.5 in MeOH).**(3β,5α,6α,15β,24S)-form** [99481-53-5][α]_D +12° (c, 0.3 in MeOH).**24-O-β-D-Xylopyranoside: [124609-38-7]. Pycnopodoside A**C₃₂H₅₆O₉ M 584.789Isol. from the starfish *Pycnopodia helianthoides*. [α]_D +2°.**24-O-β-D-Xylopyranoside, 3-sulfate: [124596-51-6].****Pycnopodoside B**C₃₂H₅₆O₁₂S M 664.853Isol. from *P. helianthoides*. [α]_D +1.8°.**3-O-β-D-Xylopyranoside, 24-sulfate: [117585-52-1].****Glacialoside A**C₃₂H₅₆O₁₂S M 664.853Isol. from the starfish *Marthasterias glacialis* (as Na salt). [α]_D +3° (c, 0.7 in MeOH).**24-O-β-D-Glucopyranoside, 6-sulfate: [124596-52-7].****Pycnopodoside C**C₃₃H₅₈O₁₃S M 694.879Isol. from *P. helianthoides*. [α]_D +4.2°.**24-O-(5-O-Sulfo-α-L-arabinofuranoside): [131466-95-0].****Scoparioside A**C₃₂H₅₆O₁₂S M 664.853Constit. of the starfish *Astropecten scoparius*. Isol. as Na salt.**24-O-(5-O-Sulfo-β-D-xylofuranoside): [131466-96-1].****Scoparioside B**C₃₂H₅₆O₁₂S M 664.853Constit. of *A. scoparius*. Isol. as Na salt.**24-O-(3-O-Methyl-4-O-sulfo-β-D-xylopyranoside): [131501-27-4]. Scoparioside C**C₃₃H₅₈O₁₂S M 678.880Constit. of *A. scoparius*. Isol. as Na salt.**(3β,5α,6α,15α,24ξ)-form****5'-O-Sulfate, 24-(3-O-methyl-α-L-arabinofuranosyl): [80764-19-8]. Asterosaponin P₁**C₃₃H₅₈O₁₂S M 678.880Constit. of starfish *Patiria pectinifera*. Cryst. Mp 191-192°. [α]_D +3.0° (c, 0.6 in MeOH).**(3β,5α,6β,15α,24S)-form****3-O-β-D-Xylopyranoside, 24-sulfate: [123154-34-7].****Pisasteroside B**C₃₂H₅₆O₁₂S M 664.853Isol. from the starfish *Pisaster giganteus* (as Na salt).[α]_D²⁵ +6° (c, 1 in MeOH).Kicha, A.A. *et al*, *Tetrahedron Lett.*, 1983, **24**, 3893.Riccio, R. *et al*, *Gazz. Chim. Ital.*, 1985, **115**, 405 (synth, ms, pmr, cmr)Riccio, R. *et al*, *J. Nat. Prod. (Lloydia)*, 1988, **51**, 989 (Glacialoside A)Higuchi, R. *et al*, *Justus Liebigs Ann. Chem.*, 1988, 1185 (isol, ir, ms, cmr)Zollo, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 693 (Pisasteroside B)Bruno, I. *et al*, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 1022

(Pycnopodosides)

Iorizzi, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 1225

(Scopariosides)

Finamore, E. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 767 (sulfates)**Cholest-4-ene-3,6,8,15,24-pentol****C-10092**C₂₇H₄₆O₅ M 450.657**(3β,6α,15β,24S)-form****3-O-β-D-Xylopyranoside, 24-sulfate: [131985-13-2].****Pisasteroside E**C₃₂H₅₄O₁₂S M 662.837Isol. from the starfish *Pisaster giganteus* (as Na salt).[α]_D 0° (MeOH).**(3β,6β,15α,24S)-form****3-O-β-D-Xylopyranoside, 24-sulfate: [131985-42-7].****Pisasteroside D**C₃₂H₅₄O₁₂S M 662.837Isol. from *P. giganteus* (as Na salt). [α]_D 0° (MeOH).Zollo, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 1000.**Cholest-22-ene-3,6,8,15,24-pentol****C-10093**C₂₇H₄₆O₅ M 450.657**(3β,5α,6β,15α,22E,24R)-form****24-O-β-D-Xylopyranoside, 15-sulfate: [131466-97-2].****Scoparioside D**C₃₂H₅₄O₁₂S M 662.837

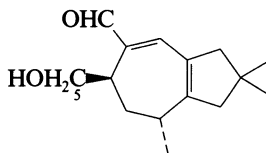
Constit. of the starfish *Astropecten scoparius*. Isol. as Na salt.

Iorizzi, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 1225.

Chrysothel

Scrobicalol

[145545-24-0]



$C_{15}H_{22}O_2$ M 234.338

Constit. of *Lactarius chrysothel* and *L. scrobicalolus*. Oil. $[\alpha]_D^{25} + 29.6^\circ$ (c. 0.15 in C_6D_6), $[\alpha]_D^{25} + 37^\circ$ (c. 0.1 in $CHCl_3$). Chrysothel and Scrobicalol not compared.

5-Aldehyde: **Chrysothelial**

$C_{15}H_{20}O_2$ M 232.322

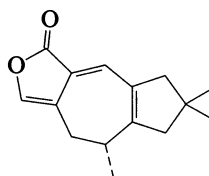
Constit. of *L. chrysothel*. Oil. $[\alpha]_D + 60.2^\circ$ (c. 2.4 in CH_2Cl_2).

Pang, Z. *et al*, *Tetrahedron Lett.*, 1992, **31**, 6863 (*isol, pmr, cmr*)

De Bernardi, M. *et al*, *Tetrahedron*, 1993, **49**, 1489 (*isol, pmr, cmr*)

Chrysothelactone

[147396-19-8]



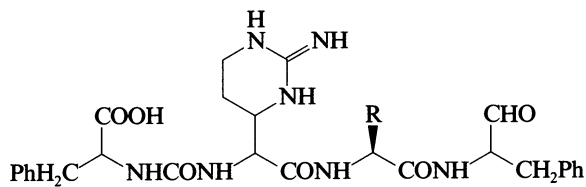
$C_{15}H_{18}O_2$ M 230.306

Constit. of *Lactarius chrysothel*. Oil. $[\alpha]_D - 30.4^\circ$ (c. 0.7 in CH_2Cl_2).

De Bernardi, M. *et al*, *Tetrahedron*, 1993, **49**, 1489 (*isol, pmr, cmr*)

Chymostatin

[9076-44-2]



Chymostatin A R = $-CH_2CH(CH_3)_2$

Chymostatin B R = $-CH(CH_3)_2$

Chymostatin C R = $-CH(CH_3)CH_2CH_3$

Peptide antibiotic complex consisting of three components.

Isol. from *Streptomyces hygroscopicus*.

Antiinflammatory agent. Inhibits α, β, γ and δ chymotrypsin and papain.

Chymostatin A [51759-76-3]

$C_{31}H_{41}N_7O_6$ M 607.708

Chymostatin B [51759-77-4]

$C_{30}H_{39}N_7O_6$ M 593.681

Chymostatin C [51759-78-5]

$C_{31}H_{41}N_7O_6$ M 607.708

Umezawa, H. *et al*, *J. Antibiot.*, 1970, **23**, 425 (*isol*)

Tatsuta, K. *et al*, *J. Antibiot.*, 1973, **26**, 625 (*struct*)

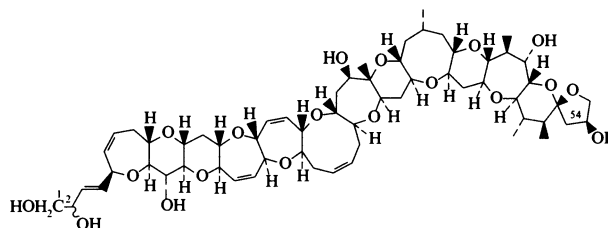
Umezawa, H., *Acta Biol. Med. Ger.*, 1977, **36**, 1899 (*rev*)

Kambara, H. *et al*, *Org. Mass Spectrom.*, 1982, **17**, 67 (*ms*)

Ciguatoxin, 9CI

CTX 1

[11050-21-8]



$C_{60}H_{86}O_{19}$ M 1111.328

Isol. from *Gymnothorax javanicus* and other fish and shellfish. Present in the dinoflagellate *Gambierdiscus toxicus*. Causes ciguatera food poisoning. *G. toxicus* is the primary cause.

54-Deoxy, stereoisomer: [142185-85-1]. *CTX 3*

$C_{60}H_{86}O_{18}$ M 1095.329

Isol. from *Lycodontis javanicus*.

1,2,54-Trideoxy, 1,2-didehydro: [123676-76-6].

Gambiertoxin 4b. GT 4b

$C_{60}H_{84}O_{16}$ M 1061.314

Isol. from *G. toxicus*.

Scheuer, P.J., *Bioact. Mol.*, 1989, **10**, 265 (*occur*)

Murata, M. *et al*, *J. Am. Chem. Soc.*, 1990, **112**, 4380 (*pmr, struct*)

Lewis, R.J. *et al*, *Toxicol.*, 1991, **29**, 1115 (*isol, derivs*)

Murata, M. *et al*, *Tetrahedron Lett.*, 1992, **33**, 525 (*cmr, struct*)

Cinerubin B

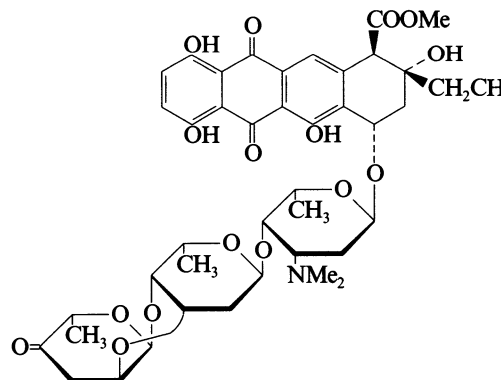
C-10098

Updated Entry replacing C-01327

*Ryemycin B*₁, 1-Hydroxyacclacinomycin B. *MA 144B*₂.

*Antibiotic MA 144B*₂, *Ciclamycin 1*

[35906-51-5]



$C_{42}H_{51}NO_{16}$ M 825.862

Anthracycline antibiotic. Isol. from *Streptomyces antibioticus*, *S. griseorubiginosus*, *S. galilaeus* and *S. niveorubus*. Active against gram-positive bacteria, viruses and tumours. Orange-red cryst. Mp 168-178°, Mp 240-243° dec.

▷ QI9277700.

De(methoxycarbonyl): **Betaclamycin B**

$C_{40}H_{49}NO_{14}$ M 767.825

Biosynth. prod. from *S. galilaeus*. Mp 182-185°.

5^c-Epimer: **Spartanamicin A**

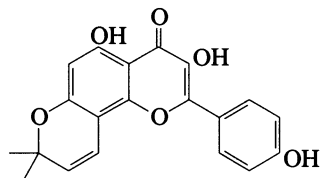
$C_{42}H_{51}NO_{16}$ M 825.862
Prod. by a *Micromonospora* sp. Antifungal agent.
Orange powder. Mp 174-176°.

Ettlinger, L. *et al*, *Chem. Ber.*, 1959, **92**, 1867 (*isol, uv, ir*)
Richle, W. *et al*, *Helv. Chim. Acta*, 1972, **55**, 467 (*cryst struct, pmr*)
David, L. *et al*, *J. Antibiot.*, 1980, **33**, 49 (*isol*)
Oki, T. *et al*, *J. Antibiot.*, 1980, **33**, 49 (*isol*)
David, L. *et al*, *Tetrahedron*, 1982, **38**, 1631 (*ms*)
Yoshimoto, A. *et al*, *J. Antibiot.*, 1992, **45**, 1005 (*Betaclamycin B*)
Nair, M.G. *et al*, *J. Antibiot.*, 1992, **45**, 1738 (*Spartanamicin A*)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, TAH650.

Citrusinol**C-10099**

Updated Entry replacing C-01415

3,5-Dihydroxy-2-(4-hydroxyphenyl)-8,8-dimethyl-4H,8H-benzo[1,2-b:3,4-b']dipyran-4-one, 9CI
[112516-43-5]



$C_{20}H_{16}O_6$ M 352.343
Isol. from *Citrus nobilis*. Yellow needles + 1H₂O
(Me₂CO). Mp 252-254°.

Tri-Ac: Plates (Me₂CO). Mp 203-205°.
3-O- α -L-Rhamnopyranoside: [113558-13-7]. *Ikariside E*
 $C_{26}H_{26}O_{10}$ M 498.485
Isol. from *Epimedium grandiflorum* and *E. sempervirens*.
Yellow powder. $[\alpha]_D^{22}$ -92° (c, 0.18 in MeOH).
4'-Me ether, 3-O- α -L-rhamnopyranoside: [143601-07-4].

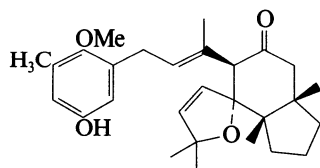
Acuminatin†

$C_{27}H_{28}O_{10}$ M 512.512
Constit. of *E. acuminatum*.

Wu, T.S. *et al*, *Phytochemistry*, 1987, **26**, 3094 (*isol*)
Fukai, T. *et al*, *Phytochemistry*, 1988, **27**, 259 (*Ikariside E*)
Hu, B.H. *et al*, *Yaoxue Xuebao*, 1992, **27**, 397; *CA*, **117**, 167659
(*Acuminatin*)

Claraenone**C-10100**

[149864-72-2]

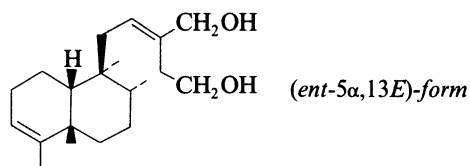


$C_{28}H_{38}O_4$ M 438.606
Constit. of a *Cystoseira* sp. $[\alpha]_D^{25}$ -35.8° (c, 0.52 in CHCl₃).

Norte, M. *et al*, *Tetrahedron Lett.*, 1993, **34**, 3485 (*isol, pmr, cmr*)

3,12-Clerodadiene-15,16-diol**C-10101**

Updated Entry replacing C-01482



$C_{20}H_{34}O_2$ M 306.487

(ent-5 α ,12E)-form

Dialdehyde: [55890-21-6]. **3,12-Clerodadiene-15,16-dial.**
Linaridial

Constit. of *Linaria japonica*. Oil. $[\alpha]_D$ +13° (CHCl₃).
Dialdehyde, bis-2,4-dinitrophenylhydrazones: Yellow cryst.
(EtOAc). Mp 207-209°. $[\alpha]_D^{15}$ -24° (c, 0.75 in Py).

16-Carboxylic acid: **16-Oxo-3,12-clerodadien-15-oic acid.**
16-Oxo-3,12-kolavadien-15-oic acid

$C_{20}H_{30}O_3$ M 318.455

Constit. of *Polyalthia viridis*. Gum. $[\alpha]_D^{20}$ -36.4° (c, 0.63 in CHCl₃).

(ent-5 β ,13E)-form

15,16-Di-Ac:

$C_{24}H_{38}O_4$ M 390.562

Constit. of *L. saxatilis*.

Dialdehyde: Isol. from *L. saxatilis*.

(ent-5 β ,13Z)-form

15,16-Di-Ac:

$C_{24}H_{38}O_4$ M 390.562

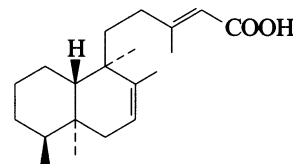
Constit. of *L. saxatilis*.

Dialdehyde: Isol. from *L. saxatilis*.

Kitagawa, I. *et al*, *Chem. Pharm. Bull.*, 1976, **24**, 294.

San Feliciano, A. *et al*, *Phytochemistry*, 1993, **33**, 631 (*isol, pmr, cmr*)

Kijjoo, A. *et al*, *Phytochemistry*, 1993, **34**, 457 (*deriv*)

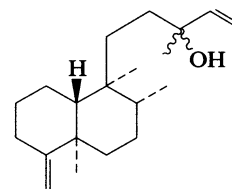
7,13-Clerodadien-15-oic acid**C-10102**

$C_{20}H_{32}O_2$ M 304.472

(13E)-form

Constit. of *Eperua purpurea*. Oil (as Me ester). $[\alpha]_D^{25}$ -18.4° (c, 1 in CHCl₃) (Me ester).

Avila, D. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1586 (*isol, pmr, cmr*)

4(18),14-Clerodadien-13-ol**C-10103**

$C_{20}H_{34}O$ M 290.488

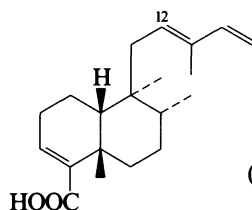
(ent-13 ξ)-form [145458-08-8] Chelodane

Constit. of *Chelonaplysilla erecta*. Oil.

Rudi, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1408 (*isol, pmr, cmr*)

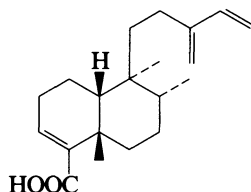
3,12,14-Clerodatrien-18-oic acid

C-10104

(ent-5 β ,8 α H,13 ξ)-form*(ent-5 α ,12E)-form*C₂₀H₃₀O₂ M 302.456*(ent-5 α ,12E)-form* [143049-05-2]Constit. of *Schistochila acuminata*. Solid. Mp 86-88°.[α]_D²⁷ –21.1° (c, 11.1 in EtOH).*(ent-5 α ,12Z)-form* [143049-07-4]Constit. of *S. acuminata*.Chen, J.-A. *et al*, *J. Chin. Chem. Soc. (Peking)*, 1992, **39**, 263 (*isol*, *pmr*, *cmr*)

3,13(16),14-Clerodatrien-18-oic acid

C-10105



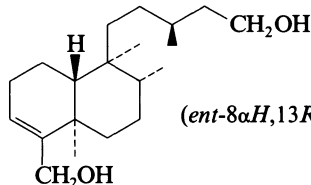
HOOC

C₂₀H₃₀O₂ M 302.456*(ent-5 α)-form* [143049-06-3]Constit. of *Schistochila acuminata* and *S. aligera*. Solid.Mp 153-155°. [α]_D²⁷ –16.0° (c, 3.95 in CHCl₃).*Me ester*: [143049-08-5].C₂₁H₃₂O₂ M 316.483Constit. of *S. acuminata*. Oil. [α]_D²⁷ –36.5° (c, 0.115 in CHCl₃).Chen, J.-A. *et al*, *J. Chin. Chem. Soc. (Peking)*, 1992, **39**, 263 (*isol*, *pmr*, *cmr*)

3-Clerodene-15,18-diol

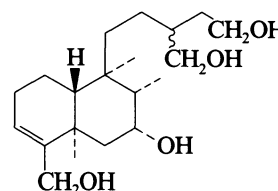
C-10106

Updated Entry replacing C-01507

*(ent-8 α H,13R)-form*C₂₀H₃₆O₂ M 308.503*(ent-8 α H,13R)-form**15,18-Dicarboxylic acid*: [70492-74-9]. *ent-3-Clerodene-15,18-dioic acid*. **Haplociliatic acid**C₂₀H₃₂O₄ M 336.470Isol. from *Haplopappus ciliatus*. Cryst. (EtOH). Mp 198-201°. [α]_D²⁵ –86° (c, 2.5 in EtOH).*(ent-5 α ,8 ξ H,13 ξ)-form* [28644-71-5] **Cistodiol**Constit. of *Cistus monspeliensis*. Cryst. Mp 86-88°. [α]_D +47.9° (CHCl₃).*15,18-Dicarboxylic acid*: [28644-72-6]. **Cistodioic acid**C₂₀H₃₂O₄ M 336.470Constit. of *C. monspeliensis*. Cryst. Mp 255-256°. [α]_D +63.6° (EtOH).*(ent-5 β ,8 α H,13 ξ)-form*Constit. of *Baccharis trinervis*. Oil. [α]_D –25.6° (c, 0.83 in CHCl₃).*15-Ac*:C₂₂H₃₈O₃ M 350.540Constit. of *B. trinervis*. Oil.*18-Ac*:C₂₂H₃₈O₃ M 350.540Constit. of *B. trinervis*. Oil. [α]_D –28.1° (c, 0.34 in CHCl₃).*15-Carboxylic acid*: *ent-18-Hydroxy-3-clerodene-15-oic acid*C₂₀H₃₄O₃ M 322.487Isol. from *Relhania corymbosa* and *R. genitifolia*.*15-Carboxylic acid, Ac*:C₂₂H₃₆O₄ M 364.524Constit. of *R. genitifolia*.*15-Carboxylic acid, 13E,14-didehydro, Ac*: **ent-19-Acetoxy-3,13-clerodadien-15-oic acid**C₂₂H₃₄O₄ M 362.508Constit. of *R. genitifolia*.*15,18-Dicarboxylic acid, 18-Me ester*: **Schistochilic acid B**C₂₁H₃₄O₄ M 350.497Constit. of *Schistochila nobilis*. Oil. [α]_D²² –86° (c, 1.74 in CCl₄).*18-(Methylmalonyl)*:C₂₄H₄₀O₅ M 408.577Constit. of *B. trinervis*. Oil.Berti, G. *et al*, *Tetrahedron Lett.*, 1970, 1401.Bittner, M.L. *et al*, *Phytochemistry*, 1978, **17**, 1797 (*Haplociliatic acid*)Tsichritzis, F. *et al*, *Phytochemistry*, 1990, **29**, 3173.Tori, M. *et al*, *Phytochemistry*, 1993, **32**, 1229 (*Schistochilic acid B*)Kuroyanagi, M. *et al*, *Phytochemistry*, 1993, **34**, 1377 (*isol*, *pmr*, *cmr*)

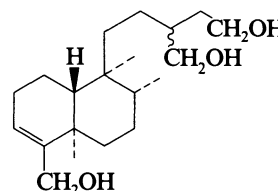
3-Clerodene-7,15,16,18-tetrol

C-10107

C₂₀H₃₆O₄ M 340.502*(ent-7 β ,13 ξ)-form**15,16,18-Tri-Ac*:C₂₆H₄₂O₇ M 466.614Constit. of *Baccharis trinervis*. Oil. [α]_D –49.3° (c, 0.5 in CHCl₃).Kuroyanagi, M. *et al*, *Phytochemistry*, 1993, **34**, 1377 (*isol*, *pmr*, *cmr*)

3-Clerodene-15,16,18-triol

C-10108

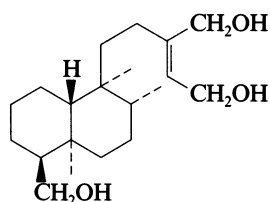
C₂₀H₃₆O₃ M 324.503*(ent-13 ξ)-form**15,16-Di-Ac*:C₂₄H₄₀O₅ M 408.577Constit. of *Baccharis trinervis*. Oil.

15,18-Di-Ac:

C₂₄H₄₀O₅ M 408.577Constit. of *B. trinervis*. Oil. [α]_D –26.5° (c, 0.34 in CHCl₃).Kuroyangi, M. *et al*, *Phytochemistry*, 1993, **34**, 1377 (*isol*, *pmr*, *cmr*)

13-Clerodene-15,16,18-triol

C-10109

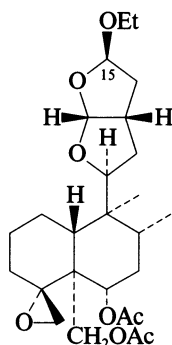
C₂₀H₃₆O₃ M 324.503*(ent-4βH,13Z)-form* [148302-73-2] **Crolechinol**Constit. of *Croton lechleri*.Cai, Y. *et al*, *Phytochemistry*, 1993, **32**, 755 (*isol*, *pmr*, *cmr*)

Clerodinin C

C-10110

Updated Entry replacing C-01515

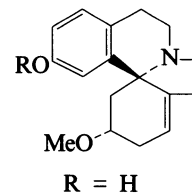
[124753-87-3]

C₂₆H₄₀O₈ M 480.597Constit. of *Clerodendrum brachyanthum*. Cryst. Mp 147-149°. [α]_D²⁵ +30° (c, 1 in CHCl₃).15-Epimer: [124815-92-5]. **Clerodinin D**C₂₆H₄₀O₈ M 480.597Constit. of *C. brachyanthum*. Cryst. Mp 163-165°. [α]_D²⁵ –31.5° (c, 1 in CHCl₃).O¹⁵-De-Et, O¹⁵-Me: [124854-66-6]. **Clerodinin A**C₂₅H₃₈O₈ M 466.570Constit. of *C. brachyanthum*. Cryst. Mp 158-160°. [α]_D²⁵ +28.8° (c, 1 in CHCl₃).O¹⁵-De-Et, O¹⁵-Me, 15-epimer: [124854-67-7]. **Clerodinin B**C₂₅H₃₈O₈ M 466.570Constit. of *C. brachyanthum*. Cryst. Mp 198-200°. [α]_D²⁵ –30.5° (c, 1 in CHCl₃).Lin, Y.-L. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2191 (*isol*, *pmr*, *cmr*)Lin, Y.-L. *et al*, *Heterocycles*, 1989, **29**, 1489 (*isol*, *pmr*, *cmr*)

Cocculine

C-10111

Updated Entry replacing C-01584

(3β)-1,6-Didehydro-3-methoxyerythrinan-15-ol, 9CI
[27675-39-4]

R = H

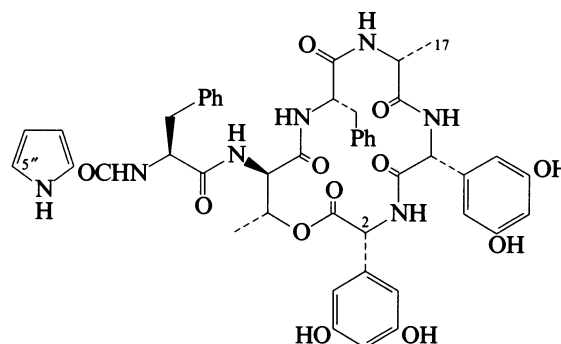
C₁₇H₂₁NO₂ M 271.358Alkaloid from the leaves of *Cocculus laurifolius*, the fruit of *C. carolinus* and the rhizomes of *C. trilobus* (Menispermaceae). Hypotensive agent which acts *via* ganglionic blocking. Cryst. (Me₂CO). Mp 217-218°. [α]_D +271.1° (MeOH).*B,HCl*: Mp 222-223°.*B,HNO₃*: Mp 196-197°.*Me ether*: see *Cocculidine*, C-01582O-De-Me: **Coclafine**C₁₆H₁₉NO₂ M 257.332Alkaloid from leaves of *C. laurifolius* (Menispermaceae). Cryst. (Me₂CO). Mp 246-266°. [α]_D +255° (c, 0.15 in MeOH).Yunusov, S., *Zh. Obshch. Khim.*, 1950, **20**, 368; *CA*, **44**, 6582g (*isol*)Yunusov, S. *et al*, *Khim. Prir. Soedin.*, 1970, **6**, 74; *Chem. Nat. Compd. (Engl. Transl.)*, 69 (*pmr*, *ms*, *struct*)Razakov, R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 150 (*cryst struct*, *abs config*)Elsohly, M.A. *et al*, *J. Pharm. Sci.*, 1976, **65**, 132 (*isol*, *uv*, *ir*, *pmr*, *ms*)McPhail, A.T. *et al*, *Tetrahedron Lett.*, 1976, 485 (*pmr*)McPhail, A.T. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1977, 1156 (*cryst struct*)Bhakuni, D.S. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1978, 618 (*biosynth*)Ju-ichi, M. *et al*, *Yakugaku Zasshi*, 1978, **98**, 886; *CA*, **89**, 215622c (*isol*)Bhakuni, D.S. *et al*, *Tetrahedron*, 1980, **36**, 3107 (*isol*)Madhusudan, K.P. *et al*, *Indian J. Chem., Sect. B*, 1983, **22**, 907 (*ms*)Ziyaev, R. *et al*, *Khim. Prir. Soedin.*, 1991, 84; *Chem. Nat. Compd. (Engl. Transl.)*, 73 (*Coclafine*)

Cochinmicin I

C-10112

RP 59451. Antibiotic RP 59451

[143728-97-6]

C₄₆H₄₇N₇O₁₂ M 889.917Cyclic depsipeptide antibiotic. Prod. by a *Microbispora* sp. Endothelin antagonist. [α]_D²³ –10.0° (c, 0.1 in MeOH).

Identity with RP 59451 not confirmed.

2-Epimer: [146876-02-0]. **Cochinmicin V**

$C_{46}H_{47}N_7O_{12}$ M 889.917

Prod. by a *M. sp.* $[\alpha]_D^{23} + 20.0^\circ$ (c, 0.1 in MeOH).

5'-Chloro: [143728-99-8]. **Cochinmicin III**

$C_{46}H_{46}ClN_7O_{12}$ M 924.362

Prod. by a *M. sp.* Endothelin antagonist. $[\alpha]_D^{23} - 10.0^\circ$ (c, 0.1 in MeOH).

2-Epimer, 5'-chloro: [114919-77-6]. **Cochinmicin II. RP**

55185. Antibiotic RP 55185

$C_{46}H_{46}ClN_7O_{12}$ M 924.362

Prod. by a *M. sp.* Endothelin antagonist. $[\alpha]_D^{23} + 20.0^\circ$ (c, 0.1 in MeOH). Identity with RP 55185 not confirmed.

2-Epimer, 17-hydroxy, 5'-chloro: [146874-41-1].

Cochinmicin IV

$C_{46}H_{46}ClN_7O_{13}$ M 940.361

Prod. by a *M. sp.* Endothelin antagonist. $[\alpha]_D^{23} + 30.0^\circ$ (c, 0.1 in MeOH).

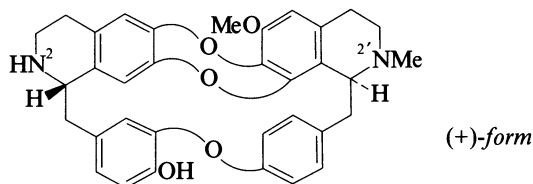
[143728-98-7]

Lam, Y.K.T. *et al.*, *J. Antibiot.*, 1992, **45**, 1709, 1717, 1792 (*isol*, *pmr*, *cmr*, *struct*, *props*)

Coccoline

C-10113

Updated Entry replacing C-01602



$C_{34}H_{32}N_2O_5$ M 548.637

(+)-form [54352-70-4]

Alkaloid from the leaves and stems of *Cocculus pendulus*, the roots of *C. laeabe*, and the stems of *Synclisia scabrida* and *Albertisia papuana* (Menispermaceae). Amorph. powder. Mp 197-199°. $[\alpha]_D + 204^\circ$ (c, 1.3 in $CHCl_3$).

N^2 -Oxide(β -): **Coccoline 2'- β -N-oxide**

$C_{34}H_{32}N_2O_6$ M 564.637

Alkaloid from roots of *Anisocyclus cymosa* (Menispermaceae). Amorph. powder.

N-Me: [26279-88-9]. **Coccoline. Efirine. Trigilletine**

$C_{35}H_{34}N_2O_5$ M 562.664

Alkaloid from *C. pendulus*, *C. laeabe*, *Triclisia gillettii*, *T. dictyophylla*, *T. patens*, *S. scabrida* and *A. papuana* (Menispermaceae). Minute needles (abs. EtOH). Mp 272-274°. $[\alpha]_D^{23} + 292^\circ$ (c, 0.76 in $CHCl_3$), $[\alpha]_D^{23} + 337^\circ$ (c, 0.86 in Py).

N-Me, *Ac*: Rosettes of prisms (EtOAc/hexane). Mp 166-168° dec.

N-Me, N^2 -oxide: [91106-34-2]. **Coccoline N-2-oxide**

$C_{35}H_{34}N_2O_6$ M 578.663

Alkaloid from the stems and roots of *C. hirsutus* (Menispermaceae). Amorph. (MeOH). Mp 182-187°. $[\alpha]_D^{25} + 125^\circ$ (c, 0.5 in MeOH).

N-Me, *Et ether*: Cryst. (MeOH/ CH_2Cl_2). Mp 214-216°.

$[\alpha]_D + 230^\circ$ (c, 1.02 in $CHCl_3$).

N-De-Me: **2'-Norcoccoline**

$C_{33}H_{30}N_2O_5$ M 534.610

Alkaloid from roots of *Anisocyclus cymosa* (Menispermaceae). Amorph. powder.

Me ether: [54352-71-5]. **O-Methylcoccoline**

$C_{35}H_{34}N_2O_5$ M 562.664

Alkaloid from the stems of *Albertisia papuana* (Menispermaceae). Cryst. (EtOAc). Mp 235-237°. $[\alpha]_D + 236^\circ$ (c, 1.2 in $CHCl_3$). Phys. constants are for synthetic material.

Me ether, N^2 -oxide (β -): **O-Methylcoccoline 2'- β -N-oxide**

$C_{35}H_{34}N_2O_6$ M 578.663

Alkaloid from roots of *Anisocyclus cymosa* (Menispermaceae). Amorph. powder.

N,*O*-Di-Me: see *Isotrilobine*, I-00890

(-)-form [36104-64-0] **Micranthine**

Alkaloid from the bark of *Daphnandra micrantha* and from the leaves and terminal twigs of an unnamed *D. sp.* (Atherospermataceae). Oedematous agent on injection, vasodilator, respiratory paralytic. Cryst. (MeOH). Mp 190-194° dec. $[\alpha]_D^{16} - 221^\circ$ (c, 1.3 in $CHCl_3$).

Me ether: [40225-93-2]. **O-Methylmicranthine**

$C_{35}H_{34}N_2O_5$ M 562.664

Alkaloid from the bark of *D. micrantha* and *D. sp.* Dt-7, and from the leaves and terminal twigs of an unnamed *D. sp.* (Atherospermataceae). Cryst. + $\frac{1}{2}$ H_2O (C_6H_6). Mp 163-165° dec. $[\alpha]_D^{20} - 208^\circ$ ($CHCl_3$).

Me ether, *N*-Ac: Cryst. + 0.67 CCl_4 ($CHCl_3/CCl_4$). Mp 174-179° dec. $[\alpha]_D^{22} - 203^\circ$ ($CHCl_3$).

N,*O*-Di-Me: see *Isotrilobine*, I-00890

1,2-Didehydro: [58207-93-5]. **1,2-Dehydromicranthine**

$C_{34}H_{30}N_2O_5$ M 546.621

Alkaloid from the leaves and terminal twigs of an unnamed *D. sp.* (Atherospermataceae). Mp 188-194° dec. $[\alpha]_D^{20} - 150^\circ$ ($CHCl_3$).

Bick, I.R.C. *et al.*, *J. Chem. Soc., Perkin Trans. 1*, 1972, 2884 (*Micranthine*, *O*-Methylmicranthine)

Tackie, A.N. *et al.*, *Phytochemistry*, 1973, **12**, 2509 (*Coccoline*)

Joshi, P.P. *et al.*, *Indian J. Chem.*, 1974, **12**, 649 (*ir*, *uw*, *pmr*, *ms*, *struct*)

Weber, N. *et al.*, *Phytochemistry*, 1974, **13**, 2326 (*Coccoline*)

Bhakuni, D.S. *et al.*, *Tetrahedron*, 1975, **31**, 2575 (*isol*, *ir*, *uw*, *pmr*, *ms*, *Coccoline*)

Bick, I.R.C. *et al.*, *Tetrahedron Lett.*, 1975, 2219 (1,2-

Dehydromicranthine)

Bhakuni, D.S. *et al.*, *J. Chem. Soc., Perkin Trans. 1*, 1978, 121

(*biosynth*)

Bick, I.R.C., *Heterocycles*, 1981, **16**, 2105 (*Micranthine*)

Spiff, A.I. *et al.*, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 160 (*Coccoline*)

Leboeuf, M. *et al.*, *Plant. Med. Phytother.*, 1982, **16**, 280; *CA*, **100**, 20463q (*O*-Methylcoccoline)

Ikram, M. *et al.*, *Planta Med.*, 1982, **45**, 253 (*Coccoline*)

Ohiri, F.C. *et al.*, *Planta Med.*, 1983, **47**, 87 (*Coccoline*, *Coccoline*)

El-Shabrawy, A.O. *et al.*, *Heterocycles*, 1984, **22**, 993 (*Coccoline N*-2-oxide)

Hussain, S.F. *et al.*, *Tetrahedron*, 1984, **40**, 2513 (*isol*, *ms*, *cd*, *Coccoline*)

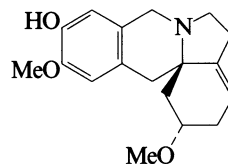
Kanyinda, B. *et al.*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 957

(*Coccoline 2'- β -N-oxide*, *12-O-Methylcoccoline 2'- β -N-oxide*)

Cohirsitinine

C-10114

[142717-67-7]



Relative configuration

$C_{18}H_{23}NO_3$ M 301.385

Alkaloid from whole plants of *Cocculus hirsutus* (Menispermaceae). Gum. $[\alpha]_D^{25} + 51^\circ$ ($CDCl_3$).

Ahmad, V.U. *et al.*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 237 (*isol*, *uw*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

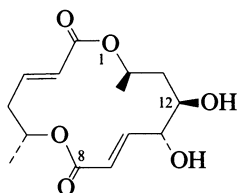
Colletodiol

C-10115

Updated Entry replacing C-01655

11,12-Dihydroxy-6,14-dimethyl-1,7-dioxacyclotetradeca-3,9-diene-2,8-dione, 9CI. 11,12-Dihydroxy-3,9-dimethyl-2,8-dioxacyclotetradeca-5,13-diene-1,7-dione

[21142-67-6]

C₁₄H₂₀O₆ M 284.308

Constit. of *Colletotrichum capsici* and *Chaetomium funicola*. Cryst. (Me₂CO/pet. ether). Mp 163-164°. [α]_D +36° (c, 1 in CHCl₃). Biol. inactive.

Di-Ac: Rods. Mp 130-131°.

Dibenzoyl: Prisms (EtOAc/pet. ether). Mp 103-105°.

11-Ketone: [50376-39-1]. **Colletoketol**. 12-Hydroxy-6,14-dimethyl-1,7-dioxacyclotetradeca-3,9-diene-2,8,11-trione, 9CI

C₁₄H₁₈O₆ M 282.293

Metab. of *C. capsici*. Prisms (Me₂CO/pet. ether). Mp 138-139°.

9,10-Dihydro, 11,12-Diketone: see *Grahamimycin A*₁, G-00689

11-Deoxy: [50376-40-4]. **Colletol**C₁₄H₂₀O₅ M 268.309

From *C. capsici*. Needles (EtOAc/pet. ether). Mp 101-104°. [α]_D -38.4° (c, 0.95 in CHCl₃).

12-Deoxy: [50376-41-5]. **Colletalol**C₁₄H₂₀O₅ M 268.309From *C. capsici*. Oil.5-Hydroxy, 12-deoxy: **Clonostachydiol**C₁₄H₂₀O₆ M 284.308Prod. by *Clonostachys cylindrospora*. Anthelmintic.

Cryst. Mp 164°. [α]_D²⁰ +103° (c, 1 in MeOH). Gross struct. only is known.

MacMillan, J. et al, *J. Chem. Soc., Perkin Trans. 1*, 1973, 1487 (isol)

Amstutz, R. et al, *Helv. Chim. Acta*, 1981, **64**, 1796 (cryst struct)

Tsutsui, H. et al, *Tetrahedron Lett.*, 1984, **25**, 2159, 2163 (synth)

Schnurrenberger, P. et al, *Tetrahedron Lett.*, 1984, **25**, 2209 (synth, bibl)

Simpson, T.J. et al, *J. Chem. Soc., Chem. Commun.*, 1985, 1822 (biosynth, nmr)

Hillis, L.R. et al, *J. Org. Chem.*, 1985, **50**, 470 (synth)

Wakamatsu, T. et al, *Tetrahedron Lett.*, 1985, **26**, 1989 (Colletalol)

Schnurrenberger, P. et al, *Justus Liebigs Ann. Chem.*, 1987, 733 (synth, bibl)

Keck, G.E. et al, *J. Org. Chem.*, 1989, **54**, 896; 1991, **56**, 6606 (synth, Colletol)

Dommerholt, F.J. et al, *Tetrahedron Lett.*, 1991, **32**, 1495 (Colletalol)

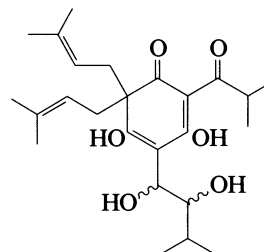
Grabley, S. et al, *J. Antibiot.*, 1993, **46**, 343 (Clonostachydiol)

Colupdol

C-10116

4-(2,3-Dihydroxy-3-methylbutyl)-3,5-dihydroxy-6,6-bis(3-methyl-2-butenyl)-2-(2-methyl-1-oxopropyl)-2,4-cyclohexadien-1-one, 9CI

[52844-27-6]

C₂₅H₃₈O₆ M 434.572

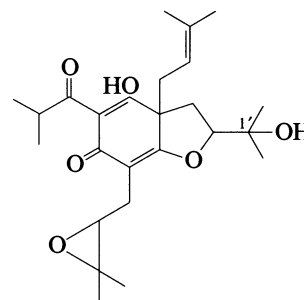
Enolised tetraketone. Constit. of beer.

Kowaka, M. et al, *Amer. Soc. Brew. Chem. Proc.*, 1973, 66.

Colupdox a

C-10117

[35923-67-2]

C₂₅H₃₆O₆ M 432.556Enolised β -diketone. Isol. from hops.1'-Deoxy: [36136-11-5]. **Colupox b**C₂₅H₃₆O₅ M 416.556

Isol. from hops.

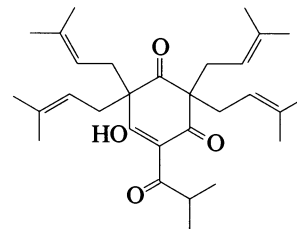
Kokubo, E. et al, *Amer. Soc. Brew. Chem. Proc.*, 1971, 265 (isol)Kokubo, E. et al, *CA*, 1973, **78**, 159926 (struct)

Colupone

C-10118

5-Hydroxy-2,2,6,6-tetrakis(3-methyl-2-butenyl)-4-(2-methyl-1-oxopropyl)-4-cyclohexene-1,3-dione, 9CI

[16658-23-4]

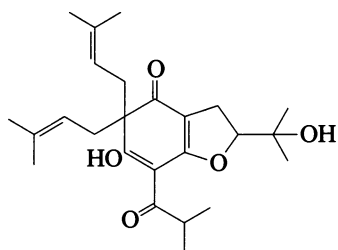
C₃₀H₄₄O₄ M 468.675

Congener of Lupulone, L-00877. Found in hops.

Elvidge, J.A. et al, *J. Chem. Soc. C*, 1969, 1839 (pmr, uv, ir)

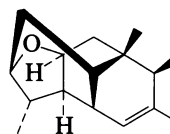
Colupox a

[18944-21-3]

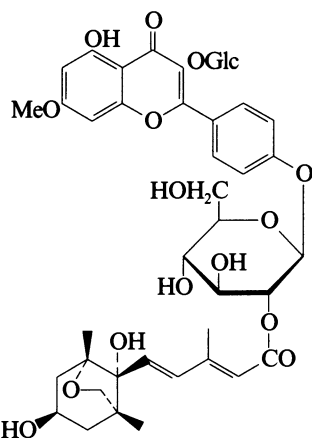
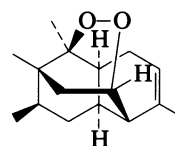
 $C_{25}H_{36}O_5$ M 416.556

Isol. from hops. V. pale yellow oil. Racemic.

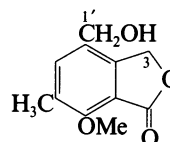
[22592-22-9]

Cahill, D.M. *et al*, *J. Chem. Soc. C*, 1969, 938 (*synth*)Kokubo, E. *et al*, *Amer. Soc. Brew. Chem. Proc.*, 1971, 265 (*isol*)Kokubo, E. *et al*, *CA*, 1973, **78**, 159926 (*struct*)**C-10119** $C_{44}H_{50}N_4O_{10}$ M 794.900Alkaloid from the leaves of *Tabernaemontana divaricata* (Apocynaceae). Light yellow prisms (EtOAc). Mp ca. 200° dec.Kam, T.-S. *et al*, *Tetrahedron Lett.*, 1992, **33**, 969 (*isol*, *pmr*, *cmr*, *struct*)**Contrunculin A****C-10122** $C_{16}H_{24}O$ M 232.365Constit. of *Latrunculia conulosa*. Oil. $[\alpha]_D +151.3^\circ$ (c, 3.99 in $CHCl_3$).Butler, M.S. *et al*, *Aust. J. Chem.*, 1993, **46**, 1363 (*isol*, *pmr*, *cmr*)**Complanatin**

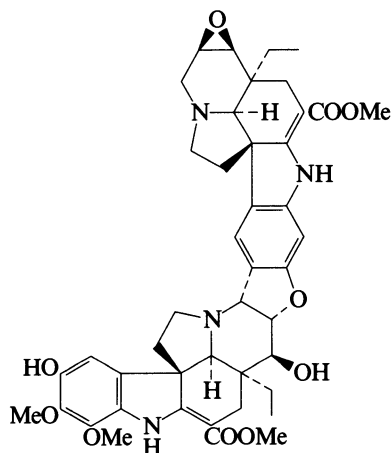
[138505-45-0]

 $C_{43}H_{52}O_{20}$ M 888.872Complex glycoside acylated with dihydrophaseic acid (see Phaseic acid, P-00918). Isol. from *Astragalus complanatus*. Pale yellow needles. Mp 192-194°. $[\alpha]_D +0.5^\circ$ (MeOH).Cui, B.L. *et al*, *Tetrahedron Lett.*, 1991, **32**, 6135.**C-10120****Contrunculin B****C-10123** $C_{16}H_{24}O_2$ M 248.364Constit. of *Latrunculia conulosa*. Unstable oil. $[\alpha]_D -35.9^\circ$ (c, 1.7 in $CHCl_3$).Butler, M.S. *et al*, *Aust. J. Chem.*, 1993, **46**, 1363 (*isol*, *pmr*, *cmr*)**Convolvulol**

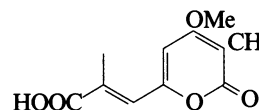
[142309-48-6]

C-10124 $C_{11}H_{12}O_4$ M 208.213Metab. of *Phomopsis convolvulus*.*l'*-Carboxylic acid: [479-14-1]. **Convolvulanic acid B** $C_{11}H_{10}O_5$ M 222.197Metab. of *P. convolvulus*.*l'*-Carboxylic acid, 3 ξ -hydroxy: [142309-47-5].**Convolvulanic acid A** $C_{11}H_{10}O_6$ M 238.196Metab. of *P. convolvulus*.Tsantrizos, Y.S. *et al*, *Can. J. Chem.*, 1992, **70**, 2276 (*isol*, *pmr*, *cmr*)**Conophylline**

[142741-24-0]

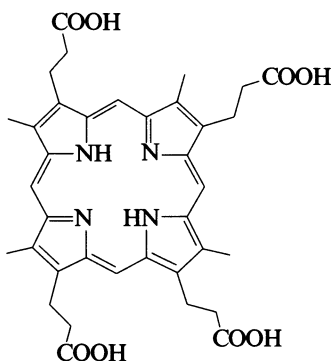
C-10121**Convolvulopyrone**

[142309-49-7]

C-10125 $C_{11}H_{12}O_5$ M 224.213Metab. of *Phomopsis convolvulus*.Tsantrizos, Y.S. *et al*, *Can. J. Chem.*, 1992, **70**, 2276 (*isol*, *pmr*, *cmr*)

Coprotoporphyrin III

Updated Entry replacing C-01773
[14643-66-4]



$C_{36}H_{38}N_4O_8$ M 654.718

Excreted in small amounts in urine and faeces, found in blood, yeast, microorganisms etc. By-product of Haem formation *in vivo*, due to oxidation of the porphyrinogen. Violet cryst. Large amounts may be excreted in disorders of Porphyrin metabolism (together with the I isomer). λ_{max} (dication), 400, 548, 590 nm (HCl aq.).

Tetra-Me ester: [5522-63-4].

$C_{40}H_{46}N_4O_8$ M 710.825

Violet cryst. (CHCl₃/MeOH). Mp 153-155°, Mp 178-182°. Mp behaviour is complex. λ_{max} 400, 498, 532, 566, 594, 621 nm.

Tetra-Me ester, Cu complex: Purple cryst. (CHCl₃/MeOH). Mp 216-219°.

5,10,15,20,22,24-Hexahydro: [2624-63-7].

Coprotoporphyrinogen III

$C_{36}H_{44}N_4O_8$ M 660.766

Interm. in the biosynth of haems and chlorophylls. Highly unstable.

Zn complex: Zinc coprotoporphyrin III

$C_{36}H_{36}N_4O_8Zn$ M 718.092

Prod. by a *Streptomyces* sp. Shows potent photosensitising activity. Dark red powder.

[83903-38-2, 84325-07-5]

Fischer, H. *et al*, *Hoppe Seyler's Z. Physiol. Chem.*, 1929, **182**, 265.

Morsingh, F. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 4377 (*synth*)

Abraham, R.J. *et al*, *J. Chem. Soc. B*, 1966, 620 (*pmr*)

Jackson, A.H. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1972, 1475 (*synth*)

Harel, E., *Prog. Phytochem.*, 1978, **5**, 127 (*rev*)

Janson, T.R. *et al*, *The Porphyrins*, (Dolphin, D., Ed.), Academic Press, N.Y., Vol. II, 1979, 1 (*pmr, cmr*)

Burnham, B.F. *et al*, *The Porphyrins*, (Dolphin, D., Ed.), Academic Press, N.Y., Vol. VI, 1979, 234 (*synth*)

Battersby, A.R. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1981, 2786 (*synth*)

Smith, K.M. *et al*, *Tetrahedron*, 1982, **38**, 2441 (*pmr, cmr*)

Robinson, J.A. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1985, 1699 (*deriv, synth, uv, pmr, ms*)

Lim, C.K. *et al*, *Methods Enzymol.*, 1986, **123**, 383 (*hplc*)

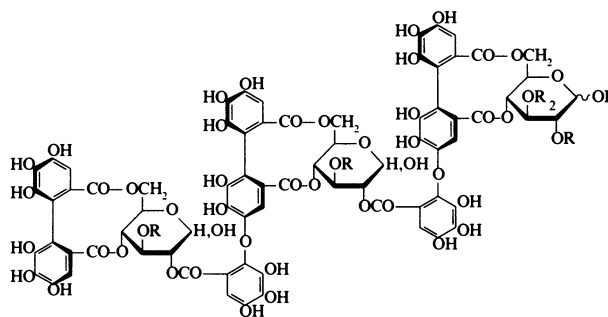
Toriya, M. *et al*, *J. Antibiot.*, 1993, **46**, 196 (*Zincphyrin*)

C-10126

Cornusiiin C

[108906-53-2]

C-10127



R = 3,4,5-Trihydroxybenzoyl

$C_{102}H_{74}O_{66}$ M 2355.667

Exists as an equilibrated mixt. of α - and β -anomers. A tannin compd. isol. from the fruit of *Cornus officinalis* and from *Trapa japonica*. Shows an *in vivo* anti-tumour activity. Off-white amorph. powder + 12 or 14H₂O. $[\alpha]_D^{20} +25^\circ$ (c, 0.3 in MeOH).

2-O-Degalloyl: [126594-59-0]. **Cornusiiin F**

$C_{95}H_{70}O_{62}$ M 2203.561

Isol. from fruit of *C. officinalis*. Off-white amorph. powder + 12H₂O. $[\alpha]_D^{20} +18^\circ$ (c, 1.0 in MeOH).

Miyamoto, K. *et al*, *Chem. Pharm. Bull.*, 1987, **35**, 814 (*pharmacol*)

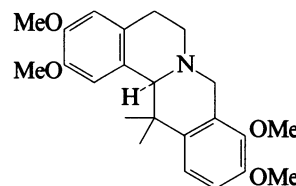
Hatano, T. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2083 (*struct, uv, ir, cd, pmr, cmr*)

Corymotine

C-10128

Updated Entry replacing C-01892

5,8,13,13a-Tetrahydro-2,3,9,10-tetramethoxy-13,13-dimethyl-6H-dibenzo[a,g]quinolizine, 9CI



$C_{23}H_{29}NO_4$ M 383.486

(*S*)-form [115569-75-0]

Corybrachylobine

Alkaloid from the tubers of *Corydalis remota* and *C. solida* ssp. *brachyloba* (Fumariaceae). Prisms (MeOH). Mp 148-149°. $[\alpha]_D^{25} -188^\circ$ (c, 0.087 in CHCl₃). The first tetrahydroprotoberberine dimethylated at C-13.

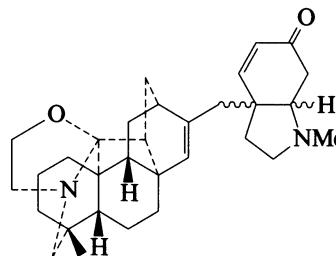
Fu, X. *et al*, *J. Nat. Prod. (Lloydia)*, 1988, **51**, 262 (*isol, uv, ir, pmr, cmr, ms, struct*)

Sener, B. *et al*, *J. Chem. Soc. Pak.*, 1991, **13**, 63; *CA*, **116**, 3548j.

Coryphine

C-10129

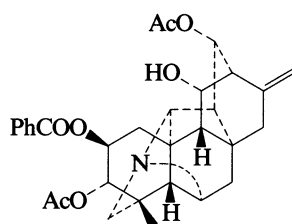
[142735-24-8]



$C_{31}H_{42}N_2O_2$ M 474.685
Alkaloid from epigeal parts of *Aconitum coreanum*
(Ranunculaceae). Mp 199-200°. $[\alpha]_D^{20} + 150^\circ$ (c, 0.4 in MeOH).

B, HClO₄: Cryst. (EtOH aq. or MeOH). Mp 225-226°.

Yusupova, I.M. *et al*, *Khim. Prir. Soedin.*, 1991, 396; *Chem. Nat. Compd. (Engl. Transl.)*, 343 (isol, pmr, cmr, ms, cryst struct)

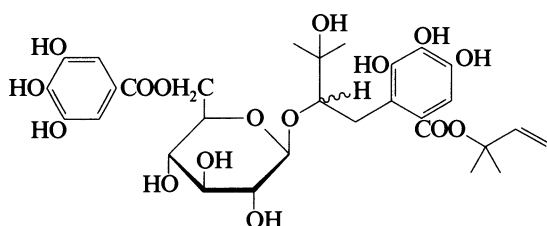
Cossonine**C-10130**

$C_{31}H_{35}NO_7$ M 533.620
Alkaloid from above-ground parts of *Delphinium cossonianum* (Ranunculaceae). Amorph. $[\alpha]_D + 45^\circ$ (c, 0.16 in $CHCl_3$).

de la Fuente, G. *et al*, *Phytochemistry*, 1993, 34, 553 (isol, ir, pmr, cmr, ms, struct)

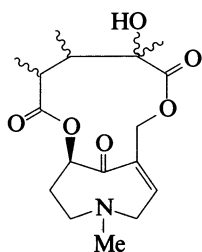
Crenulatin†**C-10131**

[142937-29-9]



$C_{30}H_{38}O_{16}$ M 654.621
Constit. of the stems of *Rhodiola crenulata*.

Yu, W. *et al*, *Chin. Chem. Lett.*, 1992, 3, 111 (isol, pmr, cmr)

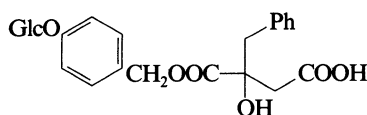
Croaegyptine**C-10132**

$C_{17}H_{25}NO_6$ M 339.388
Isol. as an insep. mixt. with Crosemperine, C-02024.
Alkaloid from *Crotalaria aegyptiaca* (Leguminosae).

Roeder, E. *et al*, *Phytochemistry*, 1993, 34, 1421.

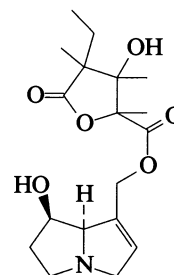
Cronupapine**C-10133**

[143572-66-1]



$C_{24}H_{28}O_{11}$ M 492.479
Constit. of *Cronura papirio*. Oil. $[\alpha]_D^{24} - 55.3^\circ$ (c, 3.9 in MeOH).

Mochizuki, K. *et al*, *Chem. Lett.*, 1992, 1239 (isol, pmr, cmr)

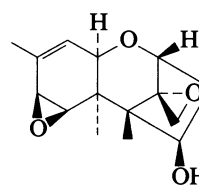
Crotalarine lactone**C-10134**

$C_{18}H_{27}NO_6$ M 353.414
Alkaloid from *Crotalaria aegyptiaca* (Leguminosae).
Powder. $[\alpha]_D^{18.5} - 12.25^\circ$ (c, 0.25 in EtOH).

Roeder, E. *et al*, *Phytochemistry*, 1993, 34, 1421 (isol, ir, pmr, cmr, ms, struct)

Crotocol**C-10135**

7β,8β:12,13-Diepoxy-4β-trichothecenol. 7β,8β-Epoxy-4β-scirpenol
[21445-21-6]



$C_{15}H_{20}O_4$ M 264.321
Inhibitor of protein synth. Cryst. Mp 154°. $[\alpha]_D^{20} - 6.4^\circ$ (c, 2 in $CHCl_3$).

O-(*2Z*-Butenoyl): [21284-11-7]. **Crotocin. Antibiotic T**

$C_{19}H_{24}O_5$ M 332.396
Isol. from *Cephalosporium crotigenum*. Antifungal antibiotic. Cryst. (MeOH). Mp 126°. $[\alpha]_D^{20} + 13.5^\circ$ (c, 1 in $CHCl_3$).
▷ YD0117000.

Gláz, E.T. *et al*, *Nature (London)*, 1966, 212, 617 (isol)

Gyimesi, J. *et al*, *Tetrahedron Lett.*, 1967, 1665 (struct)

Adams, P.M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1970, 1569 (biosynth)

Czugler, M. *et al*, *Acta Crystallogr., Sect. B*, 1975, 31, 1204 (cryst struct)

Ellison, R.A. *et al*, *J. Org. Chem.*, 1976, 41, 576 (cmr)

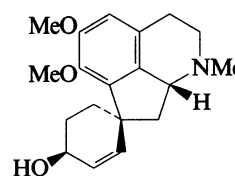
Avent, A.G. *et al*, *Magn. Reson. Chem.*, 1988, 26, 475 (pmr, cmr)

Cole, R.J. *et al*, *Handbook of Toxic Fungal Metabolites*, Academic Press, N.Y., 1981, 195, 196.

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, COB000.

Cryprochine**C-10136**

[147127-62-6]



C₁₉H₂₅NO₃ M 315.411

Diastereoisomeric with Amuroline, A-01636. Alkaloid from stem bark of *Cryptocarya chinensis* (Lauraceae). Amorph. solid. [α]_D²⁴ +40.0° (c, 0.48 in MeOH).

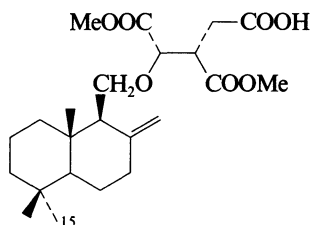
Lee, S.-S. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 227 (*isol, uv, ir, pmr, cmr, ms, struct*)

Cryptoporin acid A

C-10137

Updated Entry replacing C-02077

[113592-87-3]

C₂₃H₃₆O₇ M 424.533

Metab. of *Cryptoporus volvatus*. Oil. [α]_D +45.3° (c, 0.75 in CHCl₃).

15-Hydroxy: [113592-88-4]. **Cryptoporin acid B**C₂₃H₃₆O₈ M 440.533

Metab. of *C. volvatus*. Cryst. Mp 208.5-210° dec. [α]_D +45° (c, 0.76 in CHCl₃).

Parent acid, 15-hydroxy:

C₂₁H₃₂O₈ M 412.479

Constit. of *C. volvatus*. Powder. Mp 75-76°. [α]_D +42.3° (c, 1.64 in MeOH). Has COOH in place of both COOMe's.

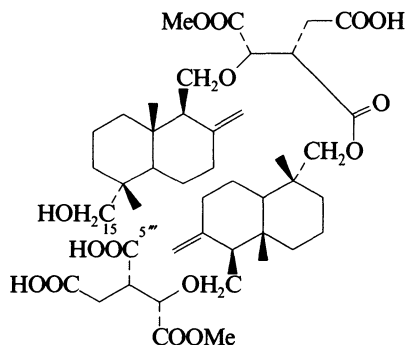
Hashimoto, T. *et al*, *Tetrahedron Lett.*, 1987, **28**, 6303 (*isol, pmr*)
Asakawa, Y. *et al*, *Phytochemistry*, 1992, **31**, 579 (*isol, pmr, cmr*)
Takahashi, H. *et al*, *Phytochemistry*, 1993, **33**, 1055 (*isol, pmr, cmr*)

Cryptoporin acid G

C-10138

Updated Entry replacing C-02078

[126632-96-0]

C₄₄H₆₆O₁₅ M 834.996

Metab. of *Cryptoporus volvatus*. Amorph. powder. Mp 110-114°. [α]_D +40.5° (c, 0.98 in CHCl₃).

5^{'''}-Me ester: [120001-10-7]. **Cryptoporin acid E**C₄₅H₆₈O₁₅ M 849.023

Metab. of *C. volvatus*. Amorph. powder. Mp 85-88°. [α]_D +42.6° (c, 1.01 in CHCl₃).

5^{'''}→15 Lactone: [119979-95-2]. **Cryptoporin acid D**C₄₄H₆₄O₁₄ M 816.981

Metab. of *C. volvatus*. Amorph. powder. Mp 238-241°. [α]_D +39.9° (c, 0.78 in CHCl₃).

15-Deoxy: [126632-95-9]. **Cryptoporin acid F**C₄₄H₆₆O₁₄ M 818.997

Metab. of *C. volvatus*. Amorph. powder. Mp 113-115°. [α]_D +64.8° (c, 1.14 in CHCl₃).

15-Deoxy, 5^{'''}-Me ester: [119979-94-1]. **Cryptoporin acid C**C₄₅H₆₈O₁₄ M 833.024

Metab. of *C. volvatus*. Powder. Mp 83-85°. [α]_D +61.2° (c, 0.64 in CHCl₃).

5^{'''}→15-Lactone, dicarboxylic acid:C₄₂H₆₀O₁₄ M 788.928

Constit. of *C. volvatus*. Amorph. [α]_D +43.3° (c, 1.71 in MeOH). Has COOH replacing both COOMe's.

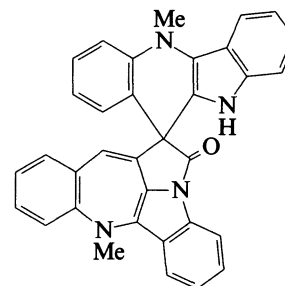
Hashimoto, T. *et al*, *J. Chem. Soc., Chem. Commun.*, 1989, 258 (*isol, cryst struct*)

Asakawa, Y. *et al*, *Phytochemistry*, 1992, **31**, 579 (*isol, pmr, cmr, cryst struct*)

Takahashi, H. *et al*, *Phytochemistry*, 1993, **33**, 1055 (*isol, pmr, cmr*)

Cryptopirolepine

C-10139

C₃₄H₂₄N₄O M 504.590

Alkaloid from roots of *Cryptolepis sanguinolenta* (Asclepiadaceae). Light brownish-pink cryst. (EtOH).

Tackie, A.N. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 653 (*isol, uv, ir, pmr, cmr, ms, struct*)

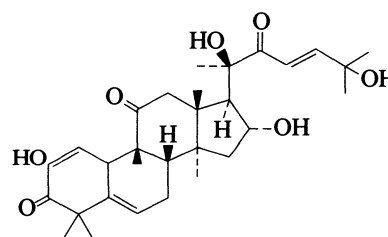
Cucurbitacin I

C-10140

Updated Entry replacing C-02110

Elatericin B, 2,16 α ,20R,25-Tetrahydroxycucurbita-1,5,23E-triene-3,11,22-trione

[2222-07-3]

C₃₀H₄₂O₇ M 514.658

Constit. of seed of *Iberis amara* and other *I. spp.*, *Citrullus colocynthis* and *Ecballium elaterium*. Cryst. Mp 148-149° dec. [α]_D²⁰ -58.5° (MeOH).

▷ RC6200000.

25-Ac: [18444-66-1]. **Cucurbitacin E**, α -ElaterinC₃₂H₄₄O₈ M 556.695

Constit. of *E. elaterium*, *C.* and *Luffa* spp. Mp 234°. [α]_D²⁰ -64.3° (CHCl₃).

▷ RC6305500.

20-Ac: [38308-89-3]. **Datiscacin**C₃₁H₄₄O₈ M 556.695

Constit. of *Datisca glomerata*. Mp 208-212°. [α]_D²³ -18° (c, 0.87 in CHCl₃).

2-O- β -D-Glucopyranoside: [29803-94-9]. **Cucurbitacin I** 2-O- β -D-glucopyranoside

$C_{36}H_{52}O_{12}$ M 676.800
Constit. of *C. lanatus*. Mp 241-243°. $[\alpha]_D^{20}$ –72.6°
(EtOH).

▷ RC6191000.

2-O- β -D-Glucopyranoside, 25-Ac: [1398-78-3]. **Elaterinide**.

Colocynthin. Gratiotoxin

$C_{38}H_{54}O_{13}$ M 718.837

Constit. of *Citrullus lanatus* and *C. colocynthis*. Mp 148-150°. $[\alpha]_D^{20}$ –63.5° (CHCl₃).

▷ RC6192500.

11-Deoxo: 11-Deoxocucurbitacin I

$C_{30}H_{44}O_6$ M 500.674

Constit. of *Desfontainia spinosa*. Cryst. (C₆H₆). Mp 212-213°.

23,24-Dihydro: [1110-02-7]. **Cucurbitacin L**

$C_{30}H_{44}O_7$ M 516.673

Constit. of *Citrullus cirrhosus* and *C. colocynthis* (also as glycosides), *Gratiola officinalis* and *Bryonia dioica*. Cryst. + $\frac{1}{2}$ H₂O (MeOH aq.). Mp 122-127°. $[\alpha]_D^{28}$ –41° (EtOH).

23,24-Dihydro, 2-O- β -D-glucopyranoside: [61105-51-9].

Bryoamaride

$C_{36}H_{54}O_{12}$ M 678.815

Constit. of *B. dioica* and *C. colocynthis*. Mp 228-235°. $[\alpha]_D^{20}$ –85.7° (c, 0.82 in EtOH).

23,24-Dihydro, 2-O- β -D-glucopyranoside, 25-Ac: [61014-18-4]. 25-O-Acetylbryoamaride

$C_{38}H_{56}O_{13}$ M 720.853

Constit. of *B. dioica*. $[\alpha]_D^{20}$ –34.3° (c, 1.04 in CHCl₃).

23,24-Dihydro, 2,25-di-O- β -D-glucopyranoside: **Brydioside A**

$C_{42}H_{64}O_{17}$ M 840.957

Constit. of *Bryonia dioica*. Cryst. Mp 180-181.5°. $[\alpha]_D$ –28.6° (c, 0.8 in MeOH).

11-Deoxo, 16-O-(2,4-di-O-acetyl- α -L-arabinopyranoside):

[119626-74-3]. **Spinocide A**

$C_{39}H_{56}O_{12}$ M 716.864

Constit. of *Desfontainia spinosa*. Cryst. (Et₂O/hexane). Mp 229-231°. $[\alpha]_D^{25}$ –76° (c, 0.6 in MeOH).

11-Deoxo, 16-O-(2-O-acetyl- α -L-arabinopyranoside):

[119626-75-4]. **Spinocide B**

$C_{37}H_{54}O_{11}$ M 674.827

Constit. of *D. spinosa*. Cryst. (Et₂O/hexane). Mp 194-196°. $[\alpha]_D^{25}$ –77° (c, 0.6 in MeOH).

Kupchan, S.M. *et al.*, *J. Org. Chem.*, 1973, **38**, 1420 (*Datisacin*)

Ripperger, H., *Tetrahedron*, 1976, **32**, 1567 (*isol*)

Nielsen, J.K. *et al.*, *Phytochemistry*, 1977, **16**, 1519 (*isol*)

Yamada, Y. *et al.*, *Phytochemistry*, 1978, **17**, 1798 (*isol*)

Bull, J.R. *et al.*, *S. Afr. J. Chem.*, 1979, **32**, 27 (*cmr*)

Che, C.-T. *et al.*, *J. Nat. Prod. (Lloydia)*, 1985, **24**, 429 (*pmr*)

Amonkar, A.A. *et al.*, *Phytochemistry*, 1985, **24**, 1803 (*isol*)

Reddy, K.S. *et al.*, *Phytochemistry*, 1988, **27**, 3781 (*Spinosides*)

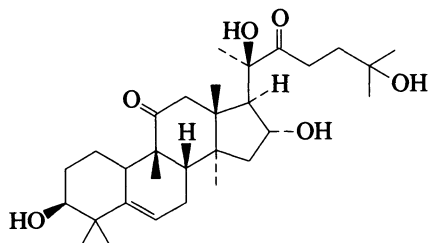
Oobayashi, K. *et al.*, *Phytochemistry*, 1992, **31**, 943 (*Brydioside A*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, COE250.

Cucurbitacin U

C-10141

3,16,20,25-Tetrahydroxycucurbit-5-ene-11,23-dione



$C_{30}H_{48}O_6$ M 504.706

3-O- β -D-Gentiobioside:

$C_{42}H_{68}O_{16}$ M 828.990

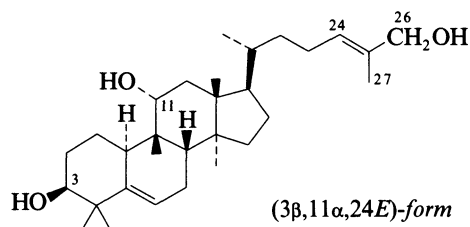
Constit. of *Fevillea cordifolia*. Cryst. (CHCl₃/MeOH). Mp 143-144°. $[\alpha]_D^{21}$ +16° (c, 0.5 in MeOH).

Achenbach, H. *et al.*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1506 (*isol*, *pmr*, *cmr*)

Cucurbita-5,24-diene-3,11,26-triol

C-10142

Updated Entry replacing C-02117



(3 β ,11 α ,24E)-form

$C_{30}H_{50}O_3$ M 458.723

(3 β ,11 α ,24E)-form [109985-89-9] **Carnosifloenin C**

Powder. $[\alpha]_D^{29}$ +41° (c, 0.39 in MeOH).

26-O-(β -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside), 3-O- β -D-glucopyranoside: [109985-94-6]. **Carnosifloside V**

$C_{48}H_{80}O_{18}$ M 945.149

Constit. of *Hemsleya carnosiflora*. Sweet taste. Powder. $[\alpha]_D^{26}$ +4.0° (c, 0.77 in MeOH).

26-O-[β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], 3-O- β -D-glucopyranoside: [109985-95-7]. **Carnosifloside VI**

$C_{48}H_{80}O_{18}$ M 945.149

Constit. of *H. carnosiflora*. Sweet taste. Powder. $[\alpha]_D^{26}$ +6.0° (c, 0.6 in MeOH).

11-Ketone: [109985-87-7]. 3 β ,26-Dihydroxycucurbita-5,24E-dien-11-one. **Carnosifloenin A**

$C_{30}H_{48}O_3$ M 456.707

Needles (CHCl₃/C₆H₆). Mp 170.5°. $[\alpha]_D^{16}$ +168.7° (c, 0.43 in MeOH).

11-Ketone, 26-O-[β -D-glucopyranosyl-(1 \rightarrow 6)-

glucopyranoside]: [109985-90-2]. **Carnosifloside I**

$C_{42}H_{68}O_{13}$ M 780.991

Constit. of *H. carnosiflora*. Powder. $[\alpha]_D^{22}$ +59.6° (c, 1.42 in MeOH). Tasteless.

11-Ketone, 3-O- β -D-glucopyranoside, 26-O-(β -D-glucopyranosyl-(1 \rightarrow 2)-glucopyranoside): [109985-91-3].

Carnosifloside II

$C_{48}H_{78}O_{18}$ M 943.133

Constit. of *H. carnosiflora*. Powder. $[\alpha]_D^{22}$ +55.9° (c, 0.95 in MeOH). Bitter taste.

11-Ketone, 3-O- β -D-glucopyranoside, 26-O-(β -D-glucopyranosyl-(1 \rightarrow 6)-glucopyranoside): [109985-92-4].

Carnosifloside III

$C_{48}H_{78}O_{18}$ M 943.133

Constit. of *H. carnosiflora*. Powder. $[\alpha]_D^{14}$ +33.6° (c, 1.01 in MeOH). Bitter taste.

(3 β ,11 α ,24Z)-form [114637-68-2]

Scandenogenin C

Plates (C₆H₆/Me₂CO). Mp 120-122°. $[\alpha]_D^{22}$ +50.0° (c, 0.44 in MeOH).

3-O- β -D-Glucopyranoside, 26-O-sophoroside: [114637-79-5].

Scandenoside R₆

$C_{48}H_{80}O_{18}$ M 945.149

Constit. of the rhizomes of *Hemsleya panacis-scandens*. Powder + $\frac{1}{2}$ H₂O. $[\alpha]_D^{22}$ +15.9° (c, 0.76 in MeOH).

3-O- β -D-Glucopyranoside, 26-O-[β -D-glucopyranosyl-(1 \rightarrow 6)-glucopyranoside]: [109985-93-5]. **Carnosifloside IV**

$C_{48}H_{80}O_{18}$ M 945.149

Constit. of *H. carnosiflora*. Powder. $[\alpha]_D^{18}$ +36.2° (c, 0.61 in MeOH). Bitter taste.

11-Ketone: [109985-88-8]. *3β,26-Dihydroxycucurbita-5,24Z-dien-11-one. Carnosiflogenin B*
 $C_{30}H_{48}O_3$ M 456.707
 Needles (MeOH aq.). Mp 155-156°. $[\alpha]_D^{18} + 195.3^\circ$ (c, 0.54 in MeOH).

11-Ketone, 3-O-β-D-glucopyranoside, 26-O-sophoroside:
 [114637-78-4]. *Scandenoside R₅*
 $C_{48}H_{78}O_{18}$ M 943.133
 Constit. of the rhizomes of *H. panacis-scandens*. Powder + 2H₂O. $[\alpha]_D^{23} + 59.7^\circ$ (c, 0.39 in MeOH).

(3β,11β,24E)-form [114637-69-3]

11-Epicarnosiflogenin C

Plates (EtOAc/diisopropyl ether). Mp 152-154°. $[\alpha]_D^{22} + 50.0^\circ$ (c, 0.38 in MeOH).

3-O-β-D-Glucopyranoside, 26-O-gentiobioside:

[109985-97-9]. *Scandenoside R₇*

$C_{48}H_{80}O_{18}$ M 945.149

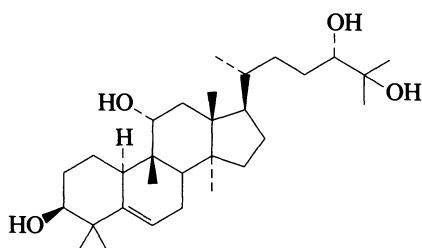
Constit. of the rhizomes of *H. panacis-scandens*.

Kasai, R. *et al*, *Phytochemistry*, 1987, **26**, 1371.

Kasai, R. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 234 (*Scandenosides*)

Cucurbit-5-ene-3,11,24,25-tetrol

C-10143



$C_{30}H_{52}O_4$ M 476.738

(3β,11α,24R)-form

3-O-β-D-Glucopyranoside, 24-O-[β-D-glucopyranosyl-(1→2)[β-D-glucopyranosyl-(1→6)]-β-D-glucopyranoside]:

[126105-12-2]. *Siamenoside I*

$C_{54}H_{92}O_{24}$ M 1125.306

Constit. of *Siraitia grosvenori* and *S. siamensis*. Powder.

$[\alpha]_D^{22} + 4.9^\circ$ (c, 1.03 in MeOH).

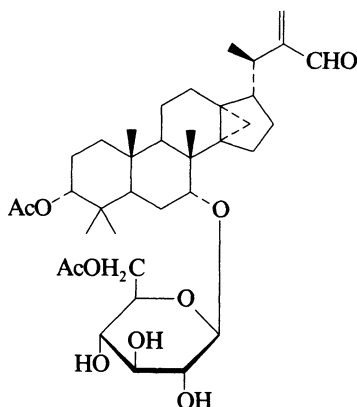
Kasai, R. *et al*, *Agric. Biol. Chem.*, 1989, **53**, 3347.

Matsumoto, K. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 2030.

Cumindiyoside A

C-10144

[144608-19-5]



$C_{37}H_{56}O_{10}$ M 660.843

Constit. of *Dysoxylum cumingianum*. Amorph. powder.

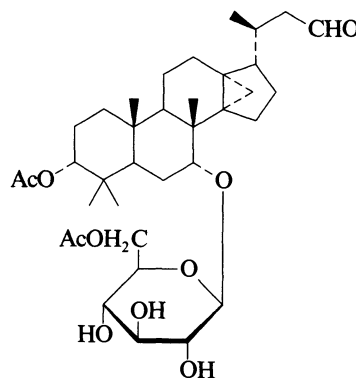
$[\alpha]_D^{21} - 64.5^\circ$ (c, 0.55 in MeOH).

Kashiwada, Y. *et al*, *J. Org. Chem.*, 1992, **57**, 6946 (*isol, pmr, cmr*)

Cumindiyoside B

C-10145

[144587-06-4]



$C_{36}H_{56}O_{10}$ M 648.832

Constit. of *Dysoxylum cumingianum*. Amorph. powder.

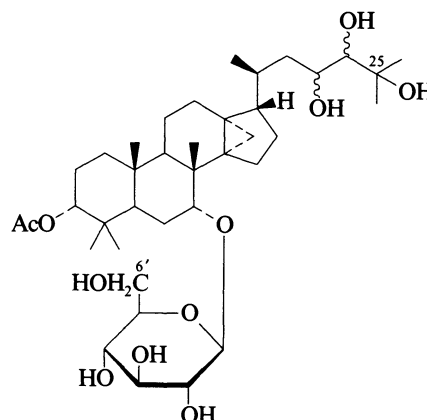
$[\alpha]_D^{21} - 57.9^\circ$ (c, 0.42 in MeOH).

Kashiwada, Y. *et al*, *J. Org. Chem.*, 1992, **57**, 6946 (*isol, pmr, cmr*)

Cumingianoside B

C-10146

[144587-03-1]



$C_{38}H_{64}O_{11}$ M 696.917

Constit. of *Dysoxylum cumingianum*. Amorph. powder.

$[\alpha]_D^{22} - 54.6^\circ$ (c, 0.9 in MeOH).

6'-Ac: [144608-17-3]. *Cumingianoside A*

$C_{40}H_{66}O_{12}$ M 738.954

Constit. of *D. cumingianum*. Amorph. powder. $[\alpha]_D - 47.3^\circ$ (c, 1.1 in MeOH).

25-Me ether 6'-Ac: [144587-02-0]. *Cumingianoside C*

$C_{41}H_{68}O_{12}$ M 752.981

Constit. of *D. cumingianum*. Amorph. powder. $[\alpha]_D - 46.7^\circ$ (c, 1.1 in MeOH).

25-Deoxy, 25,26-didehydro, 6'-Ac: [144608-18-4].

Cumingianoside D

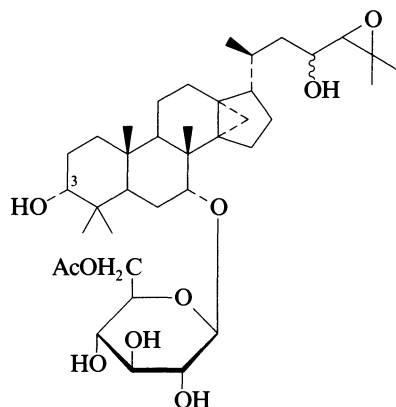
$C_{40}H_{64}O_{11}$ M 720.939

From *D. cumingianum*. Amorph. powder. $[\alpha]_D^{22} - 39.2^\circ$ (c, 1.05 in MeOH).

Kashiwada, Y. *et al*, *J. Org. Chem.*, 1992, **57**, 6946 (*isol, pmr, cmr*)

Cumingianoside F

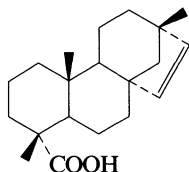
[144587-05-3]

C₃₈H₆₂O₁₀ M 678.902Constit. of *Dysoxylum cumingianum*. Amorph. powder.
[α]_D²¹ – 35.0° (c, 0.62 in MeOH).3-Ac: [144587-04-2]. *Cumingianoside E*C₄₀H₆₄O₁₁ M 720.939Constit. of *D. cumingianum*. Amorph. powder. [α]_D²²
– 39.6° (c, 1.04 in MeOH).Kashiwada, Y. *et al*, *J. Org. Chem.*, 1992, **57**, 6946 (*isol*, *pnr*, *cmr*)

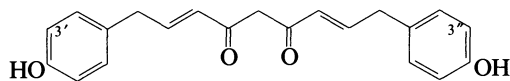
15-Cupressen-19-oic acid

20-Cupressenoic acid (*incorr.*)

[59331-36-1]

C₂₀H₃₀O₂ M 302.456Constit. of *Dimorphotheca pluvialis*. Cryst. (petrol) (as Me ester). Mp 97° (Me ester).Bohlmann, F. *et al*, *Chem. Ber.*, 1976, **109**, 1446 (*isol*, *pnr*)

Curcumin III

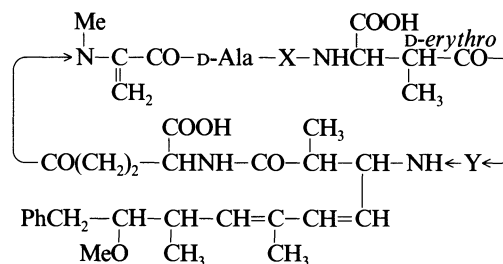
1,9-Bis(4-hydroxyphenyl)-2,7-nonadiene-4,6-dione, 9CI
[91884-88-7]C₂₁H₂₀O₄ M 336.387Isol. from the rhizomes of *Curcuma longa*. Chloretic.
Yellow pigment.3'-Methoxy: [91884-87-6]. *Curcumin II*C₂₂H₂₂O₅ M 366.413Isol. from the rhizomes of *C. longa*. Chloretic. Yellow pigment.3',3''-Dimethoxy: [91884-86-5]. *Curcumin. Curcumin I*C₂₃H₂₄O₆ M 396.439Isol. from the rhizomes of *C. longa*. Chloretic. Yellow pigment.Gorchakova, N.K. *et al*, *Farmatsiya (Moscow)*, 1984, **33**, 12; *CA*,
101, 126880 (*isol*, *props*)Nagabhusan, M. *et al*, *Mutat. Res.*, 1988, **202**, 163 (*props*)

C-10147

Cyanoginosin

Updated Entry replacing C-02194

C-10150



Cyanoginosin	LA	X = L-Leu, Y = L-Ala
	LR	X = L-Leu, Y = L-Arg
	YR	X = L-Tyr, Y = L-Arg
	YA	X = L-Tyr, Y = L-Ala
	YM	X = L-Tyr, Y = L-Met
	RR	X = Y = L-Arg
	LAb	X = L-Leu, Y = L-MeAla
	FR	X = L-Phe, Y = L-Arg
	AR	X = L-Ala, Y = L-Arg

Peptide toxin complex. Prod. by *Microcystis aeruginosa*.
Hepatotoxin; causes death to cattle. Similar to
Nodularin, N-00534.▷ Highly toxic, LD₅₀ 0.056 mg/kg (mice).*Cyanoginosin LA* [96180-79-9]*Aeruginosin. Microcystin LA. Toxin BE 4*C₄₆H₆₇N₇O₁₂ M 910.075

No phys. props. reported.

Cyanoginosin LR [101043-37-2]*Akerstox. Microcystin LR. Toxin BE 2. Toxin T 17.**Toxin I(MA)*C₄₉H₇₄N₁₀O₁₂ M 995.183

No phys. props. reported.

Cyanoginosin YR [101064-48-6]*Microcystin YR. Toxin BE 3*C₅₂H₇₂N₁₀O₁₃ M 1045.200

No phys. props. reported.

Cyanoginosin YA [101043-36-1]*Toxin BE 5. Microcystin YA*C₄₉H₆₅N₇O₁₃ M 960.092

No phys. props. reported.

Cyanoginosin YM [101043-35-0]*Microcystin YM*C₅₁H₆₉N₇O₁₃S M 1020.211

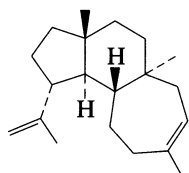
No phys. props. reported.

Cyanoginosin RR [111755-37-4]*Cyanoviridin RR. Microcystin RR*C₄₉H₇₅N₁₃O₁₂ M 1038.211Also isol. from *M. viridis*. Toxin. [α]_D²⁰ – 100° (c, 0.52 in MeOH).*Cyanoginosin LAb* [111982-69-5]*Microcystin LAb*C₄₇H₆₉N₇O₁₂ M 924.102*Cyanoginosin FR* [111982-70-8]*Microcystin FR*C₅₂H₇₂N₁₀O₁₂ M 1029.201[α]_D²⁶ – 67.0° (c, 0.026 in MeOH).*Cyanoginosin AR* [138258-91-0]*Microcystin AR*C₄₆H₆₈N₁₀O₁₂ M 953.103[α]_D²⁶ – 80.0° (c, 0.04 in MeOH).Elleman, T.C. *et al*, *Aust. J. Biol. Sci.*, 1978, **31**, 209 (*isol*, *props*)Runnegar, M.T.C. *et al*, *S. Afr. J. Sci.*, 1982, **78**, 363 (*props*)

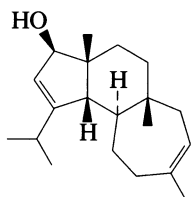
- Botes, D.P. *et al*, *Toxicon*, 1982, **20**, 945, 1037 (*isol*)
 Botes, D.P. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1984, 2311; 1985, 2747 (*struct*, *nmr*, *ms*)
 Kusumi, T. *et al*, *Tetrahedron Lett.*, 1987, **28**, 4695 (*Cyanoviridin RR*)
 Rinehart, K.L. *et al*, *J. Am. Chem. Soc.*, 1988, **110**, 8557.
 Painuly, P. *et al*, *Tetrahedron Lett.*, 1988, **29**, 11 (*Cyanoginosin RR*)
 Tsukuda, T. *et al*, *Tetrahedron Lett.*, 1989, **30**, 4245 (*config*)
 Namikoshi, M. *et al*, *J. Org. Chem.*, 1990, **55**, 6135; 1992, **57**, 866 (*isol*, *ms*, *pmr*)

12,18-Cyathadiene

C-10151

C₂₀H₃₂ M 272.473Constit. of a *Higginsia* sp. Oil. [α]_D²⁰ –28° (c, 0.4 in CHCl₃).Cassidy, M.P. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1190 (*isol*, *pmr*, *cmr*)**2,12-Cyathadien-1-ol**

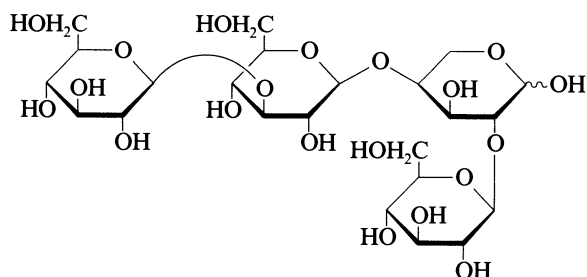
C-10152

C₂₀H₃₂O M 288.472**1β-form** [144967-83-9]Constit. of *Myrmekioderma styx*. [α]_D²² +38.8° (c, 0.05 in CH₂Cl₂).12α,13α-Epoxyde 1-Ac: [144967-85-1]. **1β-Acetoxy-12α,13α-epoxy-2-cyathene**C₂₂H₃₄O₃ M 346.509Constit. of *M. styx*. [α]_D²² +69.4° (c, 0.018 in CH₂Cl₂).Sennett, S.H. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1421 (*isol*, *pmr*, *cmr*)**Cyclamotetraose**

C-10153

β-D-Glucopyranosyl-(1→3)-β-D-glucopyranosyl-(1→4)-[β-D-glucopyranosyl-(1→2)]-L-arabinose

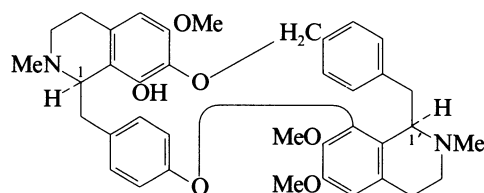
[23643-62-1]



Pyranose-form

C₂₃H₄₀O₂₀ M 636.557Sugar present in Cyclamin (see Cyclamiretin A, C-02212). [α]_D²⁰ +12.2° (c, 0.96 in H₂O).Tschesche, R. *et al*, *Justus Liebigs Ann. Chem.*, 1969, **721**, 194.**Cycleaneonine**

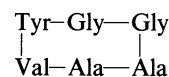
C-10154

(1*R*,1'*R*)-formC₃₈H₄₂N₂O₆ M 622.760**(1*R*,1'*R*)-form**Alkaloid from roots of *Cyclea sutchuenensis* (Menispermaceae). Cytotoxic. Amorph. powder. [α]_D²⁶ –119° (c, 1.28 in CHCl₃).**(1*R*,1'*S*)-form****Isocycleaneonine**Alkaloid from roots of *C. sutchuenensis* (Menispermaceae). Cytotoxic. Amorph. powder. [α]_D²⁶ +5.1° (c, 0.12 in CHCl₃).**(1*S*,1'*S*)-form**Alkaloid from stems of *C. racemosa* (Menispermaceae). Cytotoxic. Amorph. powder. [α]_D²³ +86.8° (CHCl₃).Wang, X.-K. *et al*, *Phytochemistry*, 1993, **33**, 1249 (*isol*, *uv*, *ir*, *pmr*, *ms*, *struct*)**Cyclo(alanylalanylvalyltyrosylglycylglycyl)**

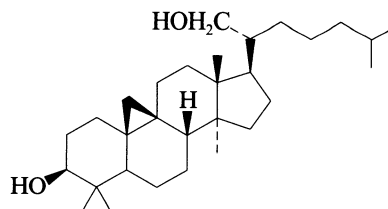
C-10155

Stellaria *Cyclopeptide*

[137476-73-4]

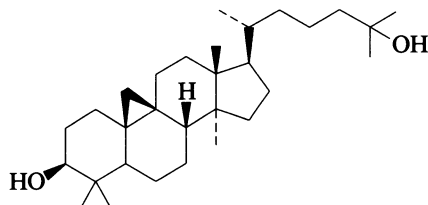
C₂₄H₃₄N₆O₇ M 518.569Isol. from the roots of *Stellaria dichotoma* var. *lanceolata*.Wang, Y. *et al*, *CA*, 1992, **116**, 231870p (*isol*)**Cycloartane-3,21-diol**

C-10156

C₃₀H₅₂O₂ M 444.740**3β-form** [148044-48-8]Constit. of *Guaera trichilioides*. Cryst. Mp 88-91°. [α]_D²⁵ +20.0° (c, 1.06 in CHCl₃).Furlan, N. *et al*, *Phytochemistry*, 1993, **32**, 1519 (*isol*, *pmr*, *cmr*)

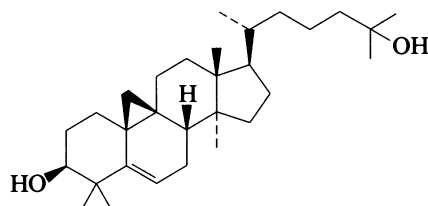
Cycloartane-3,25-diol

C-10157

C₃₀H₅₂O₂ M 444.740**3β-form**Constit. of mature wheat straw (*Triticum aestivum*).Gaspar, E.M.M. *et al*, *Phytochemistry*, 1993, **34**, 523.

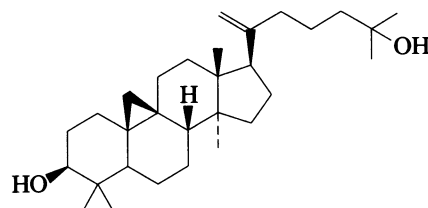
Cycloart-5-ene-3,25-diol

C-10158

C₃₀H₅₀O₂ M 442.724**3β-form**Constit. of mature wheat straw (*Triticum aestivum*).Gaspar, E.M.M. *et al*, *Phytochemistry*, 1993, **34**, 523 (*isol*)

Cycloart-20-ene-3,25-diol

C-10159

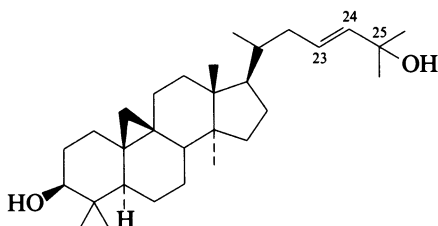
C₃₀H₅₀O₂ M 442.724**3β-form** [146539-98-2]Constit. of *Amberboa ramosa*. Cryst. Mp 169-170°. [α]_D²⁵ -18° (c, 0.03 in CHCl₃).Akhtar, N. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 295 (*isol*, *pmr*, *cmr*, *ms*)

Cycloart-23-ene-3,25-diol

C-10160

Updated Entry replacing C-02238

9,19-Cyclolanost-23-ene-3,25-diol, 9CI

C₃₀H₅₀O₂ M 442.724**(3β,23E)-form** [14599-48-5]Isol. from *Tillandsia usneoides* and *Tricholepsis glaberrima*. Prisms (EtOAc). Mp 200-204°. [α]_D²⁷ +38° (c, 0.85 in CHCl₃).

3-Ac: [26531-71-5].

C₃₂H₅₂O₃ M 484.761Isol. from roots of *Sapium insigne*. Prisms (hexane). Mp 148-150°. [α]_D²² +43° (c, 0.75 in CHCl₃).Di-Ac: Cryst. (Et₂O). Mp 105-108°.

25-Me ether: 25-Methoxycycloart-23-en-3β-ol

C₃₁H₅₂O₂ M 456.751Isol. from *Tillandsia usneoides*. Needles (MeOH/Et₂O) (as acetate). Mp 152-154° (acetate). [α]_D²⁸ +48° (c, 0.75 in CHCl₃) (acetate).

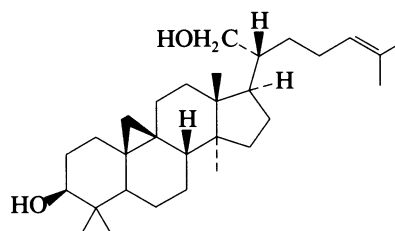
3-Ketone: 25-Hydroxycycloart-23-en-3-one

C₃₀H₄₈O₂ M 440.708Constit. of *Guarea trichiloides*. Cryst. Mp 116-118°. [α]_D²⁵ +15.3° (c, 1.9 in CHCl₃).Djerassi, C. *et al*, *J. Chem. Soc.*, 1962, 4034 (*isol*, *ir*, *pmr*, *struct*)Fourrey, J.L. *et al*, *Tetrahedron*, 1970, **26**, 3839 (*synth*)Chawla, A.S. *et al*, *Planta Med.*, 1978, **34**, 109 (*isol*)Srivastava, S.K. *et al*, *J. Nat. Prod. (Lloydia)*, 1985, **48**, 496 (*acetate*, *isol*, *pmr*)Furlan, M. *et al*, *Phytochemistry*, 1993, **32**, 1519.

Cycloart-24-ene-3,21-diol

C-10161

Updated Entry replacing O-00646

C₃₀H₅₀O₂ M 442.724**3β-form** [125292-57-1]Constit. of *Monocyclanthus vignei*. Cryst. (CHCl₃). Mp 130°. [α]_D²¹ +41° (c, 0.96 in CHCl₃).

21-Aldehyde: [125292-62-8]. 3-Hydroxycycloart-24-en-21-al

C₃₀H₄₈O₂ M 440.708Constit. of *M. vignei*. Cryst. (Me₂CO). Mp 79-81°. [α]_D²¹ +47° (c, 0.28 in CHCl₃).

21-Carboxylic acid: [125302-31-0]. 3-Hydroxycycloart-24-en-21-oic acid

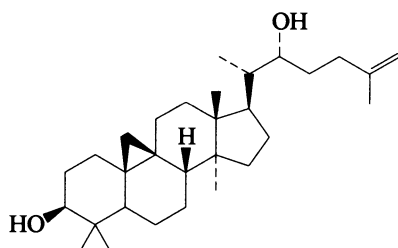
C₃₀H₄₈O₃ M 456.707Constit. of *M. vignei* and *Lansium domesticum*. Skin tumour inhibitor. Cryst. (CHCl₃). Mp 185-186° (181°). [α]_D²¹ +23° (c, 0.48 in CHCl₃) (+18.7°).

21-Aldehyde, 3-ketone: [125292-61-7]. 3-Oxocycloart-24-en-21-al

C₃₀H₄₆O₂ M 438.692Constit. of *M. vignei*. Cryst. (Me₂CO). Mp 80-82°. [α]_D²¹ +20° (c, 0.72 in CHCl₃).Nishizawa, M. *et al*, *Tetrahedron Lett.*, 1989, **30**, 5615 (*cryst struct*)Achenbach, H. *et al*, *Phytochemistry*, 1992, **31**, 4263 (*isol*, *pmr*, *cmr*)

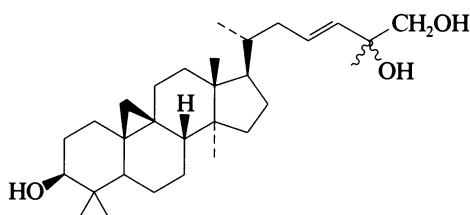
Cycloart-25-ene-3,22-diol

C-10162

C₃₀H₅₀O₂ M 442.724**(3β,22R)-form** [146539-97-1]Constit. of *Amberboa ramosa*. Cryst. Mp 180-181°. [α]_D²⁰ +20.6° (c, 0.87 in CHCl₃).Akhtar, N. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 295 (*isol, pmr, cmr, ms*)

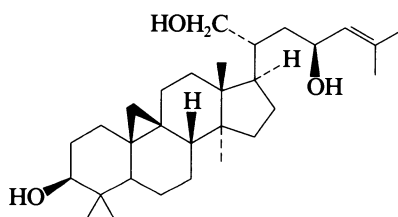
Cycloart-23-ene-3,25,26-triol

C-10163

C₃₀H₅₀O₃ M 458.723**(3β,25ξ)-form***3-Me ether*: [142950-85-4]. *3-Methoxycycloart-23-ene-25,26-diol*C₃₁H₅₂O₃ M 472.750Constit. of *Artemisia argyi*. Cryst. Mp 146-147°. [α]_D²⁰ +87° (c, 0.84 in CHCl₃).Tan, R.X. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 117 (*isol, pmr, cmr*)

Cycloart-24-ene-3,21,23-triol

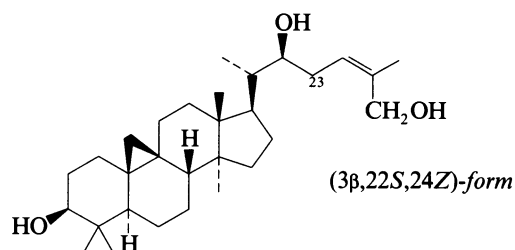
C-10164

C₃₀H₅₀O₃ M 458.723**(3β,23R)-form** [146257-57-0]Constit. of *Monocylanthus vignei*. Cryst. (MeOH). Mp 204-205°. [α]_D²¹ +38° (c, 0.6 in CHCl₃).Achenbach, H. *et al*, *Phytochemistry*, 1992, **31**, 4263 (*isol, pmr, cmr*)

Cycloart-24-ene-3,22,26-triol

C-10165

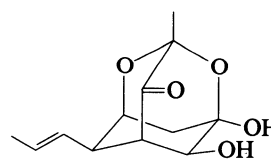
Updated Entry replacing D-01656

**(3β,22S,24Z)-form**C₃₀H₅₀O₃ M 458.723**(3β,22S,24Z)-form** [146453-58-9] *Thalictogenin a*Sapogenin from *Thalicttrum thunbergii*. Needles. Mp 202-204°. [α]_D¹⁹ +30.2° (c, 0.5 in Py).*3-O-[\beta-D-Quinovopyranosyl-(1→6)-\beta-D-glucopyranosyl-(1→4)-\beta-D-fucopyranoside]*: [146445-76-3]. *Thalictoside A*
C₄₈H₈₀O₁₆ M 913.150Constit. of *T. thunbergii*. Amorph. powder. [α]_D²⁵ -1.3° (c, 0.25 in Py).*3-O-[\beta-D-Glucopyranosyl-(1→6)-[\alpha-L-rhamnopyranosyl-(1→2)]-\beta-D-glucopyranosyl-(1→4)-\beta-D-fucopyranoside]*:
[146469-97-8]. *Thalictoside C*C₅₄H₉₀O₂₁ M 1075.292Constit. of *T. thunbergii*. Amorph. powder. [α]_D²⁶ -23.5° (c, 0.48 in Py).**(3α,22ξ,24E)-form***26-Carboxylic acid: 3α,22-Dihydroxycycloart-24-en-26-oic acid*C₃₀H₄₈O₄ M 472.707Constit. of *Mangifera indica*. Cryst. (CHCl₃/MeOH). Mp 218-220°. [α]_D³⁰ +27.5° (c, 0.8 in CHCl₃).**(3β,22ξ,24E)-form***26-Carboxylic acid: 3β,22-Dihydroxycycloart-24-en-26-oic acid*C₃₀H₄₈O₄ M 472.707Constit. of *M. indica*.Anjaneyulu, V. *et al*, *Phytochemistry*, 1989, **28**, 1471.Yoshimitsu, H. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2465.

Cycloarthropsadiol C

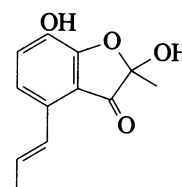
C-10166

[144476-63-1]

C₁₂H₁₆O₅ M 240.255Metab. of *Arthrospis truncata*. Oil. [α]_D²⁵ -38.7° (c, 0.91 in MeOH).Ayer, W.A. *et al*, *Can. J. Chem.*, 1992, **70**, 1338 (*isol, pmr, cmr*)

Cycloarthropsone

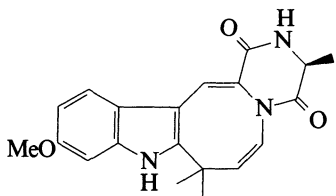
C-10167

C₁₂H₁₂O₄ M 220.224

Metab. of *Arthrospira truncata*. Yellow solid. Mp 168-172°. Ayer, W.A. *et al*, *Can. J. Chem.*, 1992, **70**, 1338, 1348 (*isol*, *pmr*, *cmr*, *biosynth*)

Cycloechinulin**C-10168**

[143086-29-7]

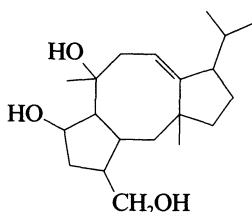
 $C_{20}H_{21}N_3O_3$ M 351.404

Metab. from the sclerotia of *Aspergillus ochraceus*. Shows moderate activity against the lepidopteran crop pest *Helicoverpa zea*. Yellow solid. $[\alpha]_D^{25}$ -23.3° (c, 0.06 in $CHCl_3$).

De Guzman, F.S. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 931 (*isol*, *uv*, *pmr*, *cmr*, *ms*, *struct*)

Cyclooctatin**C-10169**

[139552-97-9]

 $C_{20}H_{34}O_3$ M 322.487

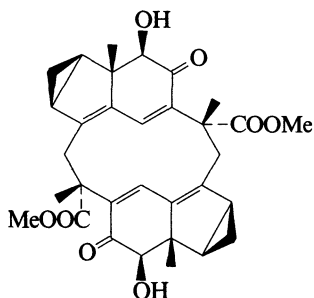
Prod. by *Streptomyces melanosporofaciens*.

Lysophospholipase inhibitor. Powder. Mp 183-185° dec. $[\alpha]_D^{27}$ +90.6° (c, 0.5 in MeOH).

Aoyagi, T. *et al*, *J. Antibiot.*, 1992, **45**, 1587, 1703 (*isol*, *struct*)

Cycloshizukaol A**C-10170**

[150033-85-5]

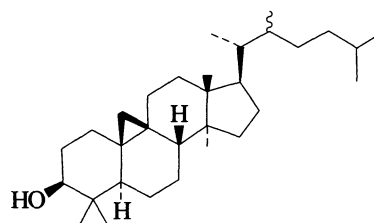
 $C_{32}H_{36}O_8$ M 548.632

Constit. of *Chloranthus serratus*. Pale yellow powder. Mp 88-90°. $[\alpha]_D^{23}$ +310° (c, 0.27 in $CHCl_3$).

Kawabata, J. *et al*, *Phytochemistry*, 1993, **32**, 1347 (*isol*, *pmr*, *cmr*)

Cycloswietenol**C-10171**

Updated Entry replacing C-02426
22-Methylcycloartan-3 β -ol
[62875-16-5]

 $C_{31}H_{54}O$ M 442.767

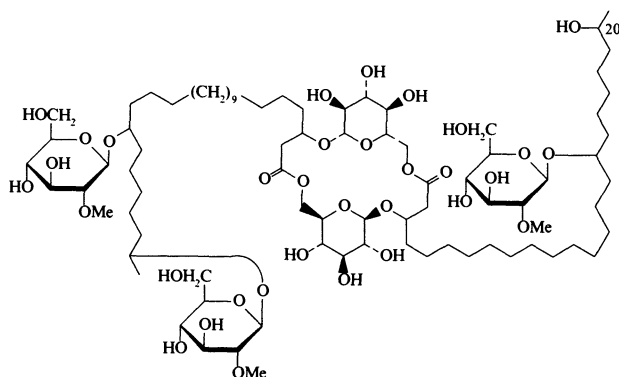
Constit. of *Swietenia mahagoni*. Cryst. (MeOH). Mp 143-145°. $[\alpha]_D^{25}$ +55° (c, 1 in $CHCl_3$).

Anjaneyulu, A.S.R. *et al*, *Indian J. Chem., Sect. B*, 1978, **16**, 650 (*isol*)

Lakshminarayana, V. *et al*, *Org. Magn. Reson.*, 1981, **17**, 77 (*cmr*)

Cycloviracin B₁**C-10172**

BU 4224V-B₁. Antibiotic BU 4224V-B₁
[142382-45-4]

 $C_{83}H_{152}O_{33}$ M 1678.094

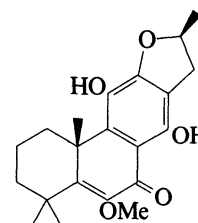
Macrolide-glycolipid antibiotic. Prod by *Kibdelosporangium albatum*. Antiviral agent. Powder + 2H₂O. Mp 84-85°. $[\alpha]_D^{26}$ -15.6° (c, 0.5 in MeOH).

20'-Ketone: [142382-46-5]. **Cycloviracin B₂**. BU 4224V-B₂. Antibiotic BU 4224V-B₂

 $C_{83}H_{150}O_{33}$ M 1676.078

From *K. albatum*. Antiviral agent. Powder + 2H₂O. Mp 82-83°. $[\alpha]_D^{26}$ -16.1° (c, 0.5 in MeOH).

Tsunakawa, M. *et al*, *J. Antibiot.*, 1992, **45**, 1467, 1472 (*isol*, *pmr*, *cmr*, *struct*, *props*)

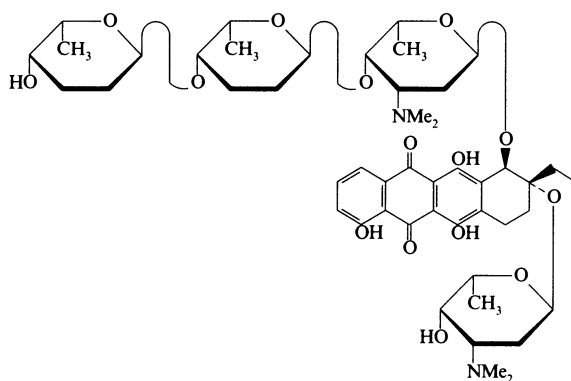
Cyrtophyllone A**C-10173** $C_{21}H_{26}O_5$ M 358.433

Constit. of *Clerodendron cyrtophyllum*. Yellow cryst. ($CHCl_3$). Mp 204-206°.

Tian, X. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 1415 (*isol*, *pmr*, *cmr*, *cryst struct*)

Cytifolioside**C-10174** $C_{27}H_{32}O_{13}$ M 564.542May possess an isoflavonoid struct. Constit. of the leaves and fruit of *Cytisus sessifolius*. Cryst. + $\frac{1}{2}H_2O$. Mp 245°.Paris, R.R. *et al*, *C. R. Hebd. Seances Acad. Sci.*, 1962, **254**, 3031.**Cytorhadin X****C-10175**

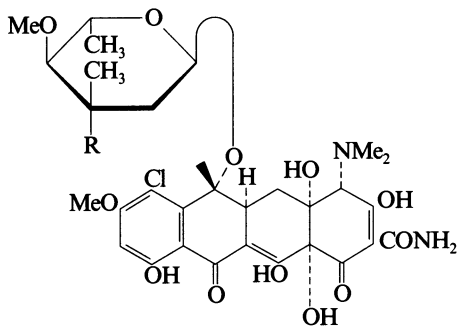
[133914-58-6]

 $C_{48}H_{68}N_2O_{15}$ M 913.070Anthracycline antibiotic. Prod. by *Streptomyces* HPL Y-11472. Cytotoxic. Orange powder.Hedtmann, U. *et al*, *J. Antibiot.*, 1992, **45**, 1373 (*isol, struct, props*)

D

Dactylocycline A

[125622-12-0]



R = NHOH

$C_{31}H_{40}ClN_3O_{13}$ M 698.122

Tetracycline antibiotic. Prod. by *Dactylosporangium* sp.
Active against gram-positive bacteria.

Tymiak, A.A. *et al*, *J. Antibiot.*, 1992, **45**, 1892, 1899, 1907 (*isol*,
pmr, *cmr*, *ms*, *struct*, *props*)

Dactylocycline B

[125622-13-1]

As Dactylocycline A, D-10001 with

R = NO₂

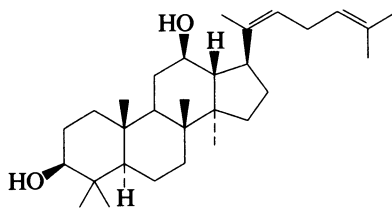
$C_{31}H_{38}ClN_3O_{14}$ M 712.106

Tetracycline antibiotic. Prod. by *Dactylosporangium* sp.
Active against gram-positive bacteria.

Tymiak, A.A. *et al*, *J. Antibiot.*, 1992, **45**, 1892, 1899, 1907 (*isol*,
pmr, *cmr*, *ms*, *struct*, *props*)

Dammara-20(22),24-diene-3,12-diol

D-10003



$C_{30}H_{50}O_2$ M 442.724

(3 β ,12 β ,20Z)-form

3-O- β -D-Glucopyranoside: [105558-26-7]. *Ginsenoside Rh*₃

$C_{36}H_{60}O_7$ M 604.866

Constit. of *Panax ginseng*.

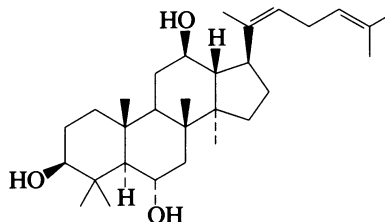
[89951-13-3, 108266-93-9]

Atopkina, L.N. *et al*, *Carbohydr. Res.*, 1988, **177**, 101 (*synth*, *pmr*,
cmr)

Zhang, S. *et al*, *Planta Med.*, 1990, **56**, 298 (*Ginsenoside Rh*₃)

Dammara-20(22),24-diene-3,6,12-triol

D-10004



$C_{30}H_{50}O_3$ M 458.723

(3 β ,6 α ,20Z)-form

6-O-*Neohesperidoside*: [126223-28-7]. *Ginsenoside F*₄.

*Ginsenoside Rg*₄

$C_{42}H_{70}O_{12}$ M 767.008

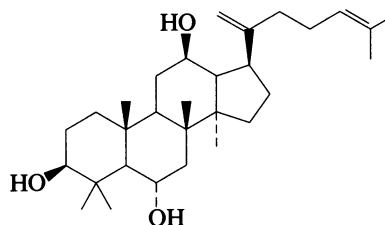
Constit. of *Panax ginseng*. Powder. Mp 177-180°. [α]_D²⁰

-10.8° (c, 0.5 in MeOH).

Zhang, S. *et al*, *Planta Med.*, 1990, **56**, 298.

Dammara-20,24-diene-3,6,12-triol

D-10005



$C_{30}H_{50}O_3$ M 458.723

(3 β ,6 α ,12 β)-form

6-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside]:

[147419-93-0].

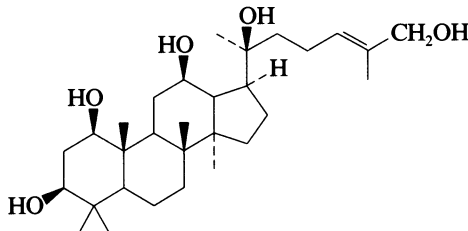
$C_{42}H_{70}O_{12}$ M 767.008

Constit. of *Panax ginseng*. Amorph.

Zhao, Y.Q. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 887.

Dammar-24-ene-1,3,12,20,26-pentol

D-10006



$C_{30}H_{52}O_5$ M 492.738

(1 β ,3 β ,12 β ,20S,24E)-form

20-O-[β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]:

[150626-50-9]. *Gycomoside I*

$C_{42}H_{72}O_{15}$ M 817.022

Constit. of *Gynostemma compressum*. Needles. Mp 196-
197°. [α]_D²² +0.031° (c, 1.67 in MeOH).

Ding, S.L. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 813 (*isol*, *pmr*, *cmr*)

Ding, S. *et al*, *Planta Med.*, 1993, **59**, 373.

Dammar-25-ene-3,6,12,20,24-pentol **D-10007**C₃₀H₅₂O₅ M 492.738**(3β,6α,12β,20S,24ξ)-form**20-O-β-D-Glucopyranoside: [69987-14-0]. *Ginsenoside M_{7cd}*C₃₆H₆₂O₁₀ M 654.880Isol. from *Panax ginseng*. Powder + 1½H₂O. [α]_D²¹ + 29.0° (c, 0.33 in MeOH).Yahara, S. *et al*, *Chem. Pharm. Bull.*, 1979, **27**, 88.**Dammar-23-ene-3,12,20,25-tetrol** **D-10008**

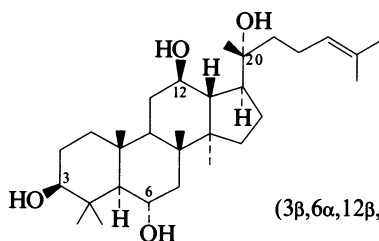
Updated Entry replacing D-00044

C₃₀H₅₂O₄ M 476.738**(3α,12β,20S,23E)-form** [38736-83-3] *Betulafolienetetrol B*Constit. of *Betula platyphylla*. Cryst. (CHCl₃). Mp 130-133°. [α]_D -4.9° (CHCl₃).**3-Malonyl, 12-Ac:**C₃₅H₅₆O₈ M 604.823Constit. of *B. pendula*. Amorph. powder. [α]_D²⁴ -18.0° (c, 0.0074 in CHCl₃).**(3β,12β,20S,23ξ)-form**

3-O-Sophoroside, 20-O-β-D-glucopyranoside: [93376-72-8].

Ginsenoside M_{6a}C₄₈H₈₂O₁₉ M 963.164Isol. from *Panax ginseng*.Ikekawa, N. *et al*, *Phytochemistry*, 1972, **11**, 3037.Rickling, B. *et al*, *Planta Med.*, 1993, **59**, 76 (*isol, pmr, cmr*)**Dammar-24-ene-3,6,12,20-tetrol** **D-10009**

Updated Entry replacing D-00046

**(3β,6α,12β,20R)-form**C₃₀H₅₂O₄ M 476.738**(3β,6α,12β,20R)-form** [1453-93-6] *Protopanaxatriol*Cryst. (CHCl₃). Mp 233-235°. [α]_D¹⁶ -8.2° (CHCl₃).**(3β,6α,12β,20S)-form** [34080-08-5]Noncryst. [α]_D²¹ +42.9° (CHCl₃).6,20-Di-O-β-D-glucopyranoside: [22427-39-0]. *Ginsenoside A₂*, *Panaxoside A*, *Sanchinoside C₁*C₄₂H₇₂O₁₄ M 801.022Constit. of *Panax ginseng*. Powder. Mp 194-196.5°.[α]_D^{19.5} +32° (Py).▷ LD₅₀ (mus, ipr) 405 mg/kg. LY9537200.6-O-[α-L-Rhamnopyranosyl-(1→2)-β-D-glucopyranoside], 20-O-β-D-glucopyranoside: [52286-59-6]. *Ginsenoside B₂*, *Chikusetsusaponin IVe*C₄₈H₈₂O₁₈ M 947.165Constit. of *P. ginseng*. Cryst. (EtOH aq.). Mp 201-203°.[α]_D³⁰ 0° (c, 1 in MeOH).

6-O-[β-D-Glucopyranosyl-(1→2)-β-D-glucopyranoside]:

[52286-58-5]. *Ginsenoside R_f*C₄₂H₇₂O₁₄ M 801.022Constit. of *P. ginseng*. Powder (Me₂CO). Mp 197-198°.[α]_D³⁰ +7° (c, 1 in MeOH).

6-O-[α-L-Rhamnopyranosyl-(1→2)-β-D-glucopyranoside]:

Ginsenoside C, *Chikusetsusaponin I*, *Ginsenoside R_{g2}*C₄₂H₇₂O₁₃ M 785.023Constit. of *P. ginseng*. Cryst. (EtOH). Mp 187-189°. [α]_D³⁰ +5.5° (c, 1 in MeOH).

3-O-[β-D-Glucopyranosyl-(1→2)-β-D-glucopyranoside], 20-O-

[β-D-Xylopyranosyl-(1→6)-β-D-glucopyranoside]: [68406-

26-8]. *Ginsenoside R_{h3}*C₅₃H₉₀O₂₃ M 1095.280Constit. of *P. ginseng*. Powder (propan-2-ol). Mp 193-195°. [α]_D²⁸ +19.4° (c, 1 in MeOH).

6-O-[β-D-Xylopyranosyl-(1→2)-β-D-glucopyranoside], 20-O-

β-D-glucopyranoside: [80418-24-2]. *Notoginsenoside R₁*C₄₇H₈₀O₁₈ M 933.138Constit. of roots of *P. notoginseng*. Needles (H₂O). Mp215-217°. [α]_D²⁵ +15.0° (c, 1.0 in MeOH).

6-O-[β-D-Xylopyranosyl-(1→2)-β-D-glucopyranoside]: [80418-

25-3]. *Notoginsenoside R₂*C₄₁H₇₀O₁₃ M 770.996Constit. of *P. notoginseng*. Powder. [α]_D¹⁵ +10.3° (c, 1.0

in MeOH).

6-O-β-D-Glucopyranoside: [63223-86-9]. *Ginsenoside Rh₁*,*Sanchinoside B₂*C₃₆H₆₂O₉ M 638.880Isol. from *P. spp.* Powder + 1½H₂O. [α]_D²² +20° (c, 0.88

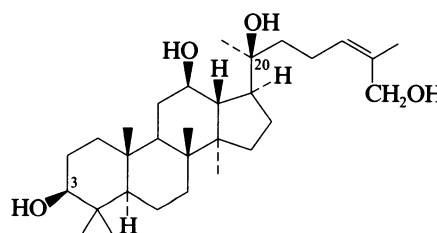
in MeOH).

20-O-β-D-Glucopyranoside: [53963-43-2]. *Ginsenoside F₁*C₃₆H₆₂O₉ M 638.880Isol. from *P. spp.* Powder + 1H₂O. [α]_D²⁵ +36.6° (c, 1.12

in MeOH).

20-O-Vicianoside: [62025-50-7]. *Ginsenoside F₃*C₄₁H₇₀O₁₃ M 770.996Isol. from *P. spp.* Powder + 3H₂O. [α]_D²⁵ +26.5° (c, 0.98

in MeOH).

Nagai, Y. *et al*, *Tetrahedron*, 1971, **27**, 881 (*isol*)Sanada, S. *et al*, *Chem. Pharm. Bull.*, 1974, **22**, 2407; 1978, **26**,1694 (*isol*)Lin, T.D. *et al*, *Chem. Pharm. Bull.*, 1976, **24**, 253 (*isol*)Yahara, S. *et al*, *Chem. Pharm. Bull.*, 1976, **24**, 2204; 1979, **27**, 88(*Ginsenosides*)Zhou, J. *et al*, *Chem. Pharm. Bull.*, 1981, **29**, 2844 (*isol*)**Dammar-24-ene-3,12,20,26-tetrol****D-10010**C₃₀H₅₂O₄ M 476.738**(3β,12β,20S)-form**20-O-Gentiobioside: [80321-71-7]. *Gynosaponin U*C₄₂H₇₂O₁₄ M 801.022Constit. of *Gynostemma pentaphylla*. Mp 151-153°. [α]_D²²

+16.3° (c, 2.0 in MeOH).

3-O-Sophoroside, 20-O-rutinoside: [80321-66-0].

Gynosaponin P, *Gypenoside XIX*C₅₄H₉₂O₂₃ M 1109.307Constit. of *G. pentaphylla*. Mp 206-209°. [α]_D²² +8.27° (c,

2.5 in MeOH).

3-O-[β-D-Glucopyranosyl-(1→2)-α-L-rhamnopyranosyl-

(1→6)-β-D-glucopyranoside], 20-O-rutinoside: [80321-65-

9]. *Gynosaponin O*C₆₀H₁₀₂O₂₇ M 1255.450Constit. of *G. pentaphylla*. Mp 202-205°. [α]_D²² -1.3° (c,

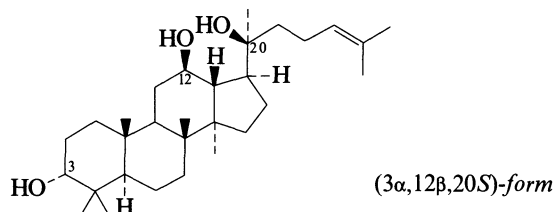
2.5 in MeOH).

3-O- $[\beta$ -D-Glucopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], 20-O-gentiobioside: [80321-70-6]. **Gynosaponin T**
 $C_{60}H_{102}O_{28}$ M 1271.449
 Constit. of *G. pentaphylla*. Mp 177-179°. $[\alpha]_D^{22}$ -2.69° (c, 1.3 in MeOH).

Ger. Pat., 3 042 117, (1981); CA, 96, 24789x (*Gynosaponins*)
 Takemoto, T. et al, *Yakugaku Zasshi*, 1983, 103, 1015
 (*Gyenosides*)

Dammar-24-ene-3,12,20-triol, 9CI**D-10011**

Updated Entry replacing D-00054

 $C_{30}H_{52}O_3$ M 460.739

C(20) configs. in this series are variable and difficult to determine.

(3 α ,12 β ,20S)-form [7755-01-3] Betulafolienetriol

Produced from *Panax ginseng* roots and from *Betula platyphylla*. Cryst. Mp 236-238° (197-198°). $[\alpha]_D$ $+20.5^\circ$ (c, 1 in $CHCl_3$).

3-O- $[\beta$ -D-Xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]: [59252-86-7]. **Chikusetsusaponin Ia**
 $C_{41}H_{70}O_{12}$ M 754.997
 Constit. of *P. japonicum*. Cryst.
 ($CHCl_3$ /MeOH/EtOAc). Mp 194°. $[\alpha]_D^{16}$ -3.5° (c, 1.4 in $CHCl_3$).

3-Malonyl, 12-Ac: [147199-47-1].

 $C_{35}H_{56}O_7$ M 588.823Constit. of *Betula pendula*. Amorph. powder. $[\alpha]_D^{24}$ -18.2° (c, 0.005 in $CHCl_3$).3-Ketone: [51116-90-6]. **12,20-Dihydroxydammar-24-en-3-one** $C_{30}H_{50}O_3$ M 458.723Constit. of *B. platyphylla*. Cryst. Mp 202-202°. $[\alpha]_D^{19}$ $+56.0^\circ$ (c, 0.93 in $CHCl_3$).

3-Ketone, 12-Ac: [127750-93-0].

 $C_{32}H_{54}O_4$ M 502.776Constit. of *B. glandulosa*. Oil. $[\alpha]_D^{25}$ $+48^\circ$ (c, 0.15 in CH_2Cl_2).**(3 β ,12 β ,20S)-form [6892-79-1] Protopanaxadiol**

Sapogenin of Ginsenosides R_{b-1} , R_{b-2} and R_c from *P. ginseng*. Cryst. Mp 199-200°.

3-O- $[\beta$ -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], 20-O- $[\beta$ -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]: [41753-43-9]. **Ginsenoside R_{b1}** , **Sanchinoside E_1** , **Gyenoside III**, **Gynosaponin C**

 $C_{54}H_{92}O_{23}$ M 1109.307Constit. of *P. ginseng*. Powder. Mp 197-198°. $[\alpha]_D^{22}$ $+12.4^\circ$ (c, 0.9 in $CHCl_3$).▷ LD₅₀ (mus, ipr) 1110 mg/kg.

3-O- $[\beta$ -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], 20-O- $[\alpha$ -L-arabinofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]: [11021-14-0]. **Ginsenoside R_c**

 $C_{53}H_{90}O_{22}$ M 1079.281Constit. of *P. ginseng*. Powder. Mp 199-201°. $[\alpha]_D^{22}$ $+1.9^\circ$ (c, 1 in MeOH).

▷ LY9536300.

3-O- $[\beta$ -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], 20-O- β -D-glucopyranoside: [52705-93-8]. **Ginsenoside R_d** , **Gyenoside VIII**

 $C_{48}H_{82}O_{18}$ M 947.165Constit. of *P. ginseng*. Powder. Mp 206-209°. $[\alpha]_D^{22}$ $+19.4^\circ$ (c, 1 in MeOH).

3-O- $[\beta$ -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], 20-O- $[\alpha$ -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]:

[11021-13-9]. **Ginsenoside R_{b2}** $C_{53}H_{90}O_{22}$ M 1079.281Constit. of *P. ginseng*. Powder. Mp 200-203°. $[\alpha]_D^{22}$ $+3^\circ$ (c, 1 in MeOH).

▷ LY9536100.

3-O- $[\beta$ -Xylopyranosyl-(1 \rightarrow 2)- β -glucopyranosyl-(1 \rightarrow 2)- β -glucopyranoside], 20-O- $[\beta$ -glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]: [88100-04-3]. **Notoginsenoside F_a**

 $C_{59}H_{100}O_{27}$ M 1241.423Constit. of leaves of *P. notoginseng*. Needles (MeOH). Mp 235-240°. $[\alpha]_D^{17}$ -2.0° (c, 1.0 in H_2O).

3-O- $[\beta$ -Xylopyranosyl-(1 \rightarrow 2)- β -glucopyranosyl-(1 \rightarrow 2)- β -glucopyranoside], 20-O- $[\beta$ -xylopyranosyl-(1 \rightarrow 6)- β -glucopyranoside]: [88122-52-5]. **Notoginsenoside F_c**

 $C_{58}H_{98}O_{26}$ M 1211.397Constit. of leaves of *P. notoginseng*. Needles (MeOH). Mp 219-223°. $[\alpha]_D^{18}$ -1.4° (c, 0.67 in H_2O).

3-O- β -Glucopyranoside, 20-O- $[\alpha$ -arabinofuranosyl-(1 \rightarrow 6)- β -glucopyranoside]: [88105-29-7]. **Notoginsenoside F_e**

 $C_{47}H_{80}O_{17}$ M 917.139Constit. of leaves of *P. notoginseng*. Needles (MeOH). Mp 179-184°. $[\alpha]_D^{27}$ -0.3° (c, 0.8 in MeOH).

3-O- $[\beta$ -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], 20-O- $[\beta$ -D-xylopyranosyl-(1 \rightarrow 4)- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]: [83459-41-0]. **Ginsenoside R_{a1}**

 $C_{58}H_{98}O_{26}$ M 1211.397From root of *P. ginseng*. Powder. $[\alpha]_D^{25}$ $+12.8^\circ$ (c, 1.0 in MeOH).

3-O- $[\beta$ -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], 20-O- $[\beta$ -D-xylopyranosyl-(1 \rightarrow 2)- α -L-arabinofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]: [83459-42-1]. **Ginsenoside R_{a2}**

 $C_{58}H_{98}O_{26}$ M 1211.397From root of *P. ginseng*. Powder. $[\alpha]_D^{25}$ -2.4° (c, 1.0 in MeOH).

3-O- β -D-Glucopyranoside: [78214-33-2]. **Ginsenoside R_h** , $C_{36}H_{62}O_8$ M 622.881

Isol. from *P. ginseng*.

3,20-Di-O- β -D-glucopyranoside: [62025-49-4]. **Ginsenoside F_2**

 $C_{42}H_{72}O_{13}$ M 785.023Isol. from *P. spp.* Powder + $2\frac{1}{2}H_2O$. $[\alpha]_D^{25}$ $+21.1^\circ$ (c, 1.14 in MeOH).3-O-Sophoroside: [14197-60-5]. **Ginsenoside R_g** $C_{42}H_{72}O_{13}$ M 785.023Isol. from *P. spp.*

20-O- $[\beta$ -D-Xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]:

[80325-22-0]. **Gynosaponin M**, **Gyenoside XIII** $C_{41}H_{70}O_{12}$ M 754.997Constit. of *Gynostemma pentaphylla*.

20-Rutinoside: [80330-77-4]. **Gynosaponin N**, **Gyenoside XIV**

 $C_{42}H_{72}O_{12}$ M 769.024Constit. of *G. pentaphylla*.

3-O- β -D-Glycopyranoside, 20-O-gentiobioside: [80321-69-3].

Gynosaponin S, **Gyenoside XVII** $C_{48}H_{82}O_{18}$ M 947.165Constit. of *G. pentaphylla* and *Panax spp.*

3-O- β -D-Glucopyranoside, 20-O-rutinoside: [80330-76-3].

Gynosaponin J, **Gyenoside X** $C_{48}H_{82}O_{17}$ M 931.166Constit. of *G. pentaphylla*.

- 3-O-Rutinoside, 20-O- β -D-glucopyranoside: [80321-64-8].
Gynosaponin K. Gypenoside XI
 $C_{48}H_{82}O_{17}$ M 931.166
Constit. of *G. pentaphylla*.
- 3-O-(6"-O-Acetylsophoroside), 20-O-vicianoside: [87733-67-3]. **Ginsenoside Rs₁**
 $C_{55}H_{92}O_{23}$ M 1121.318
Isol. from *P. ginseng*. Powder + 2H₂O. $[\alpha]_D^{16} + 19.0^\circ$ (c, 1 in MeOH).
- 3,20-Di-O-rutinoside: [80321-62-6]. **Gynosaponin G**.
Gypenoside VII
 $C_{54}H_{92}O_{21}$ M 1077.308
Constit. of *G. pentaphylla*.
- 3-O- β -D-Glucopyranoside, 20-O-[β -D-xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]: [80321-63-7]. **Gynosaponin I**.
Gypenoside IX. Notoginsenoside F_a
 $C_{47}H_{80}O_{17}$ M 917.139
Constit. of *G. pentaphylla* and *Panax notoginseng*.
Powder. $[\alpha]_D^{27} + 1.0^\circ$ (c, 3 in MeOH).
- 3-O-Sambubioside, 20-O-rutinoside: [80321-68-2].
Gynosaponin R
 $C_{53}H_{90}O_{21}$ M 1063.281
Constit. of *G. pentaphylla*.
- 3-O-Sophoroside, 20-O-rutinoside: [80321-60-4].
Gynosaponin E. Gypenoside V
 $C_{54}H_{92}O_{22}$ M 1093.308
Constit. of *G. pentaphylla* and *Gymnema sylvestre*.
- 3-O-Sambubioside, 20-O-[β -D-xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]: [80321-67-1]. **Gynosaponin Q**
 $C_{52}H_{88}O_{21}$ M 1049.255
Constit. of *Gynostemma pentaphylla*.
- 3-O-Sophorotrioside, 20-O-gentiobioside: [112722-00-6].
Ginsenoside RA₀
 $C_{60}H_{102}O_{28}$ M 1271.449
Isol. from *P. quinquefolius*.
- 3-O-Sophoroside, 20-O-[β -D-xylopyranosyl-(1 \rightarrow 3)- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]:
[90985-77-6]. **Ginsenoside Ra₃**
 $C_{59}H_{100}O_{27}$ M 1241.423
Isol. from *P. ginseng*. Powder + 4H₂O. $[\alpha]_D^{17} + 9.8^\circ$ (c, 0.43 in MeOH).
- 3-O-(6-O-Acetylsophoroside), 20-O-[α -L-arabinofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]: [87733-66-2]. **Ginsenoside Rs₂**
 $C_{55}H_{92}O_{23}$ M 1121.318
Isol. from *P. ginseng*. Powder + 2H₂O. $[\alpha]_D^{16} + 2.5^\circ$ (c, 1 in MeOH).
- 3-O-[β -D-Glucopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], 20-O- β -D-glucopyranoside:
[80321-61-5]. **Gynosaponin F**
 $C_{54}H_{92}O_{22}$ M 1093.308
Constit. of *G. pentaphylla*.
- 3-O-[β -D-Glucopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], 20-O-gentiobioside: [80325-21-9]. **Gynosaponin A**
 $C_{60}H_{102}O_{27}$ M 1255.450
Constit. of *G. pentaphylla*.
- 3-O-[β -D-Glucopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], 20-O-rutinoside: [80321-59-1]. **Gynosaponin B**
 $C_{60}H_{102}O_{26}$ M 1239.450
Constit. of *G. pentaphylla*.
- 3-Malonyl, 12-Ac: **Pendulic acid**
 $C_{35}H_{56}O_7$ M 588.823
Constit. of *Betula pendula*. Amorph.
- (3 β ,12 β ,20R)-form
- 3-O- β -D-Glucopyranoside: [112246-15-8]. (20R)-**Ginsenoside Rh₂**
 $C_{36}H_{62}O_8$ M 622.881

Isol. from *P. ginseng*. Antineoplastic. Cryst. Mp 278-280°.

- 3-O-Sophoroside: [38243-03-7]. (20R)-**Ginsenoside Rg₃**
 $C_{42}H_{72}O_{13}$ M 785.023
Isol. from *P. ginseng*.

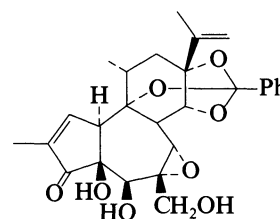
Nagai, M. *et al*, *Tetrahedron Lett.*, 1967, 3579 (isol)
Tanaka, O. *et al*, *Chem. Pharm. Bull.*, 1972, **20**, 1204; 1985, **33**, 2323, 3852 (struct, Gynosaponin S)
Sanada, S. *et al*, *Chem. Pharm. Bull.*, 1974, **22**, 421, 2407 (isol, struct)
Lin, T.D. *et al*, *Chem. Pharm. Bull.*, 1976, **24**, 253 (isol)
Kasai, R. *et al*, *Chem. Pharm. Bull.*, 1976, **24**, 400; 1983, **31**, 2120 (synth, Ginsenoside Rs₁, Ginsenoside Rs)
Yahara, S. *et al*, *Chem. Pharm. Bull.*, 1976, **24**, 2204 (Ginsenoside F₂)
Asakawa, J. *et al*, *Tetrahedron*, 1977, **33**, 1935 (cmr)
Besso, H. *et al*, *Chem. Pharm. Bull.*, 1982, **30**, 2380 (isol)
Koizumi, H. *et al*, *Chem. Pharm. Bull.*, 1982, **30**, 2393 (isol)
Yang, T.R. *et al*, *Phytochemistry*, 1983, **22**, 1473 (Notoginsenosides)
Takemoto, T. *et al*, *Yakugaku Zasshi*, 1983, **103**, 173, 1015 (Gypenosides)
Matsuura, H. *et al*, *Chem. Pharm. Bull.*, 1984, **32**, 1188 (Ginsenoside Ra₃)
Xu, S. *et al*, *Yaouxue Xuebao*, 1987, **22**, 750; *CA*, **108**, 72123 (Ginsenoside RA₀)
Atopkina, L.N. *et al*, *Khim. Prir. Soedin.*, 1989, 813 (synth, Ginsenoside Rh₂)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, London, 1993, 1372.
Taipale, H.T. *et al*, *Phytochemistry*, 1993, **34**, 755 (Pendulic acid)
Rickling, B. *et al*, *Planta Med.*, 1993, **59**, 76 (isol, pmr, cmr, ms, ir)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, PAF450.

Daphnetoxin

D-10012

Updated Entry replacing D-00070

[28164-88-7]

 $C_{27}H_{30}O_8$ M 482.529Toxic principle from *Daphne* spp. Cryst. Mp 194-196°. $[\alpha]_D + 63^\circ$.▷ Severe skin irritant. LD₅₀ (mus, ipr) 1.1 mg/kg. Exp. reprod. effects.

21-Dephenyl, 21-(1,3-heptadienyl): [101391-09-7].

Excoecaria factor O₂ $C_{28}H_{36}O_8$ M 500.588Constit. of *Excoecaria oppositifolia*.Stout, G.H. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 1070.Wiryachitra, P. *et al*, *Planta Med.*, 1985, 368 (*Excoecaria factor O₂*)*Naturally Occurring Phorbol Esters*, (ed., Evans, F.J.), CRC Press, 1986, 217 (rev)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, DAB850.

Daturametelin C

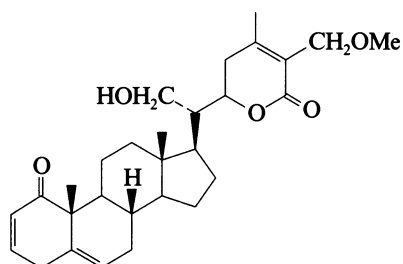
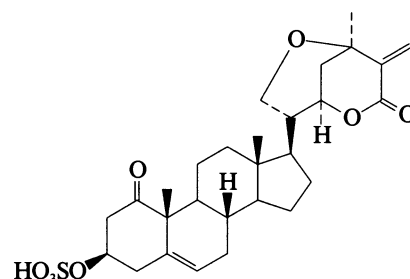
[123297-25-6]

D-10013

Daturametelin F

[124853-98-1]

D-10016

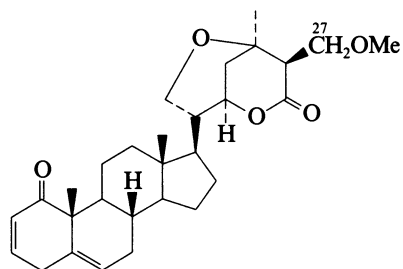
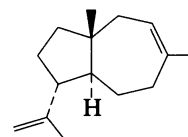
 $C_{29}H_{40}O_5$ M 468.632Constit. of *Datura metel*. Needles. Mp 199-202°. $[\alpha]_D^{25} + 68.7^\circ$ (c, 0.49 in $CHCl_3$).Shingu, K. *et al*, *Chem. Pharm. Bull.*, 1989, 37, 2132 (*isol*, *pmr*, *cmr*) $C_{28}H_{38}O_8S$ M 534.669Constit. of *Datura metel*. Amorph. powder. $[\alpha]_D^{20} + 5.0^\circ$ (c, 0.42 in Py).Shingu, K. *et al*, *Chem. Pharm. Bull.*, 1989, 37, 2132 (*isol*, *pmr*, *cmr*)

Daturametelin D

D-10014

8,11-Daucadiene

D-10017

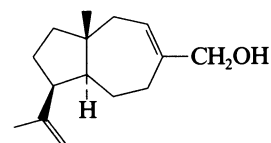
 $C_{29}H_{40}O_5$ M 468.632Constit. of *Datura metel*. Needles ($CHCl_3$ /MeOH). Mp 199.5-201.5°. $[\alpha]_D^{26} - 90.6^\circ$ (c, 0.68 in $CHCl_3$). CA incorrectly gives Daturametelin D the same reg. no. as Withametelin, W-10004. O^{27} -De-Me, 27-O- β -D-glucopyranoside: **Daturametelin G** $C_{34}H_{48}O_{10}$ M 616.747Constit. of *D. metel*.Shingu, K. *et al*, *Chem. Pharm. Bull.*, 1989, 37, 2132 (*isol*, *pmr*, *cmr*) $C_{15}H_{24}$ M 204.355Constit. of a *Higginsia* sp. Oil. $[\alpha]_D - 7^\circ$ (c, 1.1 in $CHCl_3$).Cassidy, M.P. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, 56, 1190 (*isol*, *pmr*, *cmr*)

8,11-Daucadien-14-ol

D-10018

Isodaucenol

[147029-02-5]

 $C_{15}H_{24}O$ M 220.354Constit. of *Rosa rugosa*. Syrup.Hashidoko, Y. *et al*, *Phytochemistry*, 1993, 32, 387 (*isol*, *pmr*, *cmr*)

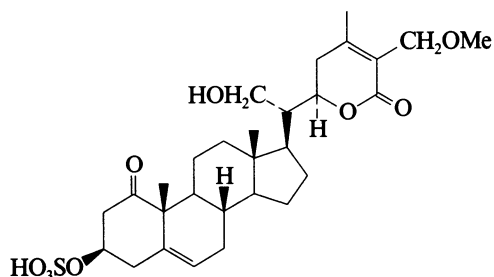
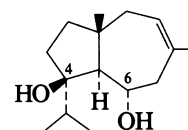
Daturametelin E

D-10015

8-Daucene-4,6-diol

D-10019

Updated Entry replacing D-00113

 $C_{29}H_{42}O_9S$ M 566.711Constit. of *Datura metel*. Amorph. powder. $[\alpha]_D^{28} + 25.8^\circ$ (c, 0.69 in MeOH).Shingu, K. *et al*, *Chem. Pharm. Bull.*, 1989, 37, 2132 (*isol*, *pmr*, *cmr*) $C_{15}H_{26}O_2$ M 238.369 $(4\beta,6\alpha)$ -form [41690-67-9] **Jaeschkeanadiol**. *Ferutinol*.*Chimganidol*. *Tchimganidol*. *Jeschkeanadiol*Constit. of *Ferula jaeschkeana*. Cryst. (pet. ether). Mp 91-92°. $[\alpha]_D + 38.8^\circ$ ($CHCl_3$).6-Benzoyl: [60033-08-1]. **Teferidine** $C_{22}H_{30}O_3$ M 342.477Constit. of *F. tenuisecta* and *F. jaeschkeana*. Oil. $[\alpha]_D + 37.5^\circ$.6-(3,4-Dihydroxybenzoyl): [70284-22-9]. **Akiferidin** $C_{22}H_{30}O_5$ M 374.476

Constit. of *F. akitschkensis*. Cryst. (EtOAc/hexane). Mp 52-54°. $[\alpha]_D^{25} + 28.5^\circ$ (c, 1.4 in CHCl_3).

6-(4-Hydroxy-3-methoxybenzoyl): [54526-95-3]. **Teferin**

$\text{C}_{23}\text{H}_{32}\text{O}_5$ M 388.503

Constit. of *F. tenuisecta*. Cryst. Mp 78-80°. $[\alpha]_D + 86.5^\circ$ (CHCl_3).

6-(2-Hydroxybenzoyl): **Jaeschkeanadiol salicylate**

$\text{C}_{22}\text{H}_{30}\text{O}_4$ M 358.477

Constit. of *F. jaeschkeana*. Cryst. Mp 210-213°.

6-Angeloyl: **Jaeschkeanadiol angelate**

$\text{C}_{20}\text{H}_{32}\text{O}_3$ M 320.471

Constit. of *F. jaeschkeana*. Oil.

6-(4-Hydroxybenzoyl): [41743-44-6]. **Ferutin**

$\text{C}_{22}\text{H}_{30}\text{O}_4$ M 358.477

Constit. of *F. jaeschkeana* and other *F. spp.* Mp 121-122°. $[\alpha]_D^{22} + 66^\circ$ (c, 1.36 in EtOH).

6-(3,4-Methylenedioxybenzoyl): [126585-80-6]. **Jaeskeanidin**

$\text{C}_{23}\text{H}_{30}\text{O}_5$ M 386.487

Constit. of *F. jaeschkeana*. Cryst. Mp 123-124°.

6-(3-Hydroxy-4-methoxybenzoyl): [41744-35-8]. **Ferutin**

$\text{C}_{23}\text{H}_{32}\text{O}_5$ M 388.503

Isol. from *F. spp.* Cryst. (pet. ether). Mp 130-131°. $[\alpha]_D^{25} + 101.8^\circ$ (c, 1.08 in MeOH).

6-(2-Methylbutanoyl):

$\text{C}_{20}\text{H}_{34}\text{O}_3$ M 322.487

Constit. of *F. linkii*.

6-(3-Methylbutanoyl):

$\text{C}_{20}\text{H}_{34}\text{O}_3$ M 322.487

Constit. of *F. linkii*. Oil.

Sriraman, M.C. *et al.* *Tetrahedron*, 1973, **29**, 985 (*Jaeschkeanadiol*)

Saidhodzhaev, A.I. *et al.* *Khim. Prir. Soedin.*, 1974, **10**, 166; 1976, **12**, 105; *Chem. Nat. Compd. (Engl. Transl.)*, 166 (*derivis*)

Khasanov, T.Kh. *et al.* *Khim. Prir. Soedin.*, 1974, **10**, 528; *Chem. Nat. Compd. (Engl. Transl.)*, 542 (*Teferin*)

Kushmuradov, A.Yu. *et al.* *Khim. Prir. Soedin.*, 1978, **14**, 725; *Chem. Nat. Compd. (Engl. Transl.)*, 617 (*Ferutinol*, *Akiferidin*)

Razdan, T.K. *et al.* *Phytochemistry*, 1989, **28**, 3389.

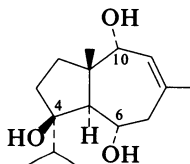
González, A.G. *et al.* *Phytochemistry*, 1993, **33**, 863 (*derivis*)

8-Daucene-4,6,10-triol

D-10020

Updated Entry replacing D-00118

8-Carotene-4,6,10-triol



$\text{C}_{15}\text{H}_{26}\text{O}_3$ M 254.369

(4 β ,6 α ,10 α)-form [103654-31-5]

Pallinol. 1-Hydroxyferulinkiol

Oil. $[\alpha]_D^{20} + 37.3^\circ$ (c, 0.1 in CHCl_3).

6-(2-Methylbutanoyl):

$\text{C}_{20}\text{H}_{34}\text{O}_4$ M 338.486

Constit. of *Ferula linkii*. Cryst. (EtOAc/hexane). Mp 77-79°.

6,10-Diangeloyl: [90695-04-8]. **Pallinin**

$\text{C}_{25}\text{H}_{38}\text{O}_5$ M 418.572

Constit. of *F. pallida*. Cryst. (EtOAc/pet. ether). Mp 79-80°. $[\alpha]_D^{20} - 148.5^\circ$ (c, 0.1 in CHCl_3).

10-Ketone: see 4,6-Dihydroxy-8-daucen-10-one, D-10132

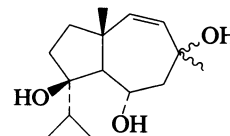
Kushmuradov, A.Yu. *et al.* *Khim. Prir. Soedin.*, 1986, **22**, 53;

Chem. Nat. Compd. (Engl. Transl.), 48 (*Pallinin*)

González, A.G. *et al.* *Phytochemistry*, 1993, **33**, 863 (*deriv. pmr, cmr*)

9-Daucene-4,6,8-triol

D-10021



$\text{C}_{15}\text{H}_{26}\text{O}_3$ M 254.369

(4 β ,6 α ,8 ξ)-form [103701-24-2] **Ferutriol**
Gum.

6-(3-Methylbutanoyl): [103701-22-0].

$\text{C}_{20}\text{H}_{34}\text{O}_4$ M 338.486

Constit. of *Ferula linkii*. Cryst. (pet. ether). Mp 54-56°.

Díaz, J.G. *et al.* *Phytochemistry*, 1986, **25**, 1161 (*isol, pmr, cmr*)

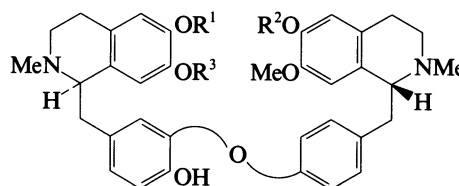
Dauricine

D-10022

Updated Entry replacing D-00127

6,6'-Di-O-methylauricoline

[524-17-4]



$\text{R}^1 = \text{R}^2 = \text{R}^3 = \text{Me}$

$\text{C}_{38}\text{H}_{44}\text{N}_2\text{O}_6$ M 624.775

Alkaloid from the rhizomes of *Menispermum dauricum*, the subterranean parts of *M. canadense*, and from *Polyalthia nitidissima* (Menispermaceae, Annonaceae). Shows antiinflammatory and anaesthetic props. Weak curarising agent. Mp 115°. $[\alpha]_D - 139^\circ$ (MeOH).

▷ Toxic, LD₅₀ 6 mg/kg (i.p., mice).

B,2MeI: Needles (MeOH). Mp 201°. $[\alpha]_D^{20} - 114^\circ$ (c, 0.348 in H_2O).

Me ether: [2202-17-7]. **O-Methylauricine**

$\text{C}_{39}\text{H}_{46}\text{N}_2\text{O}_6$ M 638.802

Alkaloid from the bark of *Colubrina asiatica* and *Popowia cf. cyanocarpa* (Rhamnaceae, Annonaceae). Shows activity against Walker 256 carcinosarcoma. Brittle foam. $[\alpha]_D - 128^\circ$ (c, 0.06 in MeOH).

Me ether, 2-N-Oxide: [107882-03-1]. **O-Methylauricine 2-N-oxide**

$\text{C}_{39}\text{H}_{46}\text{N}_2\text{O}_7$ M 654.802

Alkaloid from the bark and leaves of *P. pisocarpa* (Annonaceae). Amorph. $[\alpha]_D - 138^\circ$ (c, 0.5 in MeOH). Isol. as an inseparable mixt. with the 2'-N-oxide (ratio 10:7 or 7:10).

Me ether, 2'-N-Oxide: [107882-02-0]. **O-Methylauricine 2'-N-oxide**

$\text{C}_{39}\text{H}_{46}\text{N}_2\text{O}_7$ M 654.802

Alkaloid from the bark and leaves of *P. pisocarpa* (Annonaceae). Amorph.

N-De-Me: **N-Demethylauricine. 2-Demethylauricine**

$\text{C}_{37}\text{H}_{42}\text{N}_2\text{O}_6$ M 610.749

Alkaloid from rhizomes of *M. dauricum* (Menispermaceae).

N'-De-Me: [34302-34-6]. **N'-Demethylauricine. 2'-Demethylauricine**

$\text{C}_{37}\text{H}_{42}\text{N}_2\text{O}_6$ M 610.749

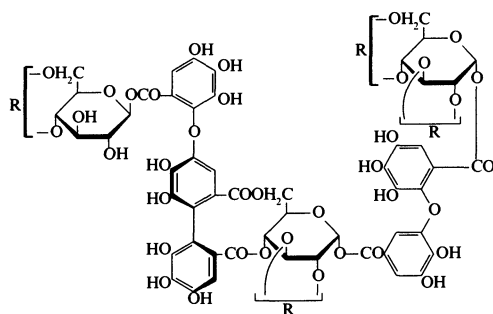
Alkaloid from the rhizomes of *M. canadense* (Menispermaceae). Unstable oil. $[\alpha]_D^{27} - 98^\circ$ (MeOH).

Manske, R.H.F., *Can. J. Res., Sect. B*, 1943, **21**, 17 (*isol*)

Inubushi, Y. *et al*, *Yakugaku Zasshi*, 1952, **72**, 762; *CA*, **47**, 6430d (struct)
 Tomita, M. *et al*, *Chem. Pharm. Bull.*, 1955, **3**, 449 (synth, *O*-Methylauricine)
 Manske, R.H.F. *et al*, *Chem. Pharm. Bull.*, 1965, **13**, 1476 (pmr)
 Johns, S.R. *et al*, *Aust. J. Chem.*, 1970, **23**, 363 (isol, pmr, ms, config, *O*-Methylauricine)
 Tschesche, R. *et al*, *Phytochemistry*, 1970, **9**, 1683 (isol, uv, ir, pmr, ms, *O*-Methylauricine)
 Doshkotch, R.W. *et al*, *J. Nat. Prod. (Lloydia)*, 1971, **34**, 292 (Demethylauricine)
 Baldas, J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1972, 592 (ms)
 Jossang, A. *et al*, *Planta Med.*, 1983, **49**, 20 (isol)
 Jossang, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1986, **49**, 1018 (oxides)
 Pan, X.P., *Yaouxue Xuebao*, 1992, **27**, 788; *CA*, **118**, 165183e (*N*-Demethylauricine)

Davuriciin T₁
 [137371-86-9]

D-10023



R = Hexahydroxydiphenoyl,
 C₁₄H₈O₈

C₁₀₉H₇₄O₇₀ M 2503.742

Ellagitannin isol. from the root of *Rosa davurica*. Light brown amorph. powder + 17H₂O. [α]_D²⁰ +68° (c, 1.0 in MeOH).

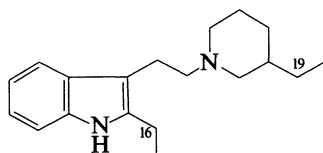
Yoshida, T. *et al*, *Phytochemistry*, 1991, **30**, 2747 (struct, uv, cd, pmr, cmr)

Decarbomethoxytetrahydrosecodine

D-10024

Updated Entry replacing D-00193

2-Ethyl-3-[2-(3-ethylpiperidino)ethyl]indole, 9CI, 8CI
 [20785-62-0]



C₁₉H₂₈N₂ M 284.444

Alkaloid from the leaves of *Tabernaemontana cumminsii* and whole plants of *Haplophyton crooksii* (Apocynaceae). Exhibits antiacetylcholinesterase activity. Oil or amorph. powder.

Picrate: Mp 137-138°.

19-Oxo: **19-Oxodecarbomethoxytetrahydrosecodine**

C₁₉H₂₆N₂O M 298.427

Alkaloid from *Aspidosperma marcgravianum* (Apocynaceae).

16-Oxo: **Crooksidine**

C₁₉H₂₆N₂O M 298.427

Alkaloid from whole plants of *H. crooksii* (Apocynaceae). Exhibits antiacetylcholinesterase activity. Glass. [α]_D +27.6° (c, 0.205 in CHCl₃).

Crooks, P.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1968, 1210 (isol, uv, ms, synth, struct)

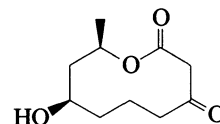
Robert, G.M.T. *et al*, *J. Nat. Prod. (Lloydia)*, 1983, **46**, 694 (deriv)

Mroue, M.A. *et al*, *Phytochemistry*, 1993, **33**, 217 (Crooksidine)

Decarestrictine J

D-10025

[144161-44-4]



C₁₀H₁₆O₄ M 200.234

From *Penicillium simplicissimum*. Cholesterol inhibitor.

Grabley, S. *et al*, *J. Antibiot.*, 1992, **45**, 1176 (isol, pmr, cmr)

4-Decenedioic acid

D-10026

[67494-01-3]

HOOC(CH₂)₄CH=CHCH₂CH₂COOH

C₁₀H₁₆O₄ M 200.234

Z-form [41221-65-2]

Isol. from urine of patients with Jamaican vomit disease. Solid (hexane/Et₂O). Mp 52-53°.

E-form [128823-57-4]

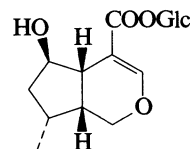
Solid (hexane/Et₂O). Mp 136-137.5°.

Tanaka, K., *J. Biol. Chem.*, 1972, **247**, 7465 (isol)

Kaydos, J.A. *et al*, *J. Org. Chem.*, 1993, **58**, 3463 (synth, ir, pmr, cmr)

1-Deglucosylpenstemonosidic acid glucoside

D-10027



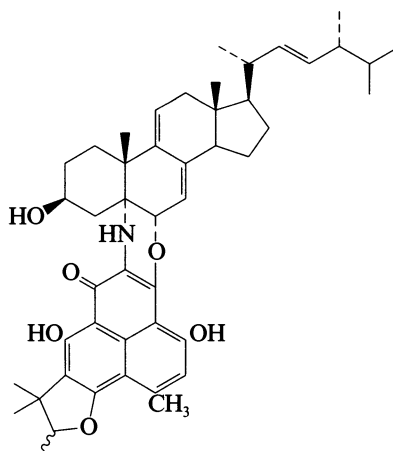
C₁₆H₂₄O₉ M 360.360

Constit. of *Penstemon* spp. Cryst. Mp 184-185°. [α]_D²⁵ -54° (c, 0.8 in MeOH).

Abdel-Kader, M.S. *et al*, *Phytochemistry*, 1993, **34**, 1367 (isol, pmr, cmr)

Dehydroazasirosterol

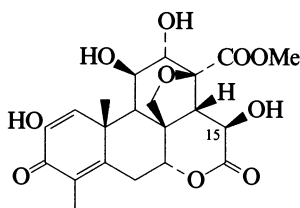
D-10028

C₄₇H₅₉NO₆ M 733.986Metab. of a *Sirococcus* sp. Amorph. powder.Ayer, W.A. *et al*, *Can. J. Chem.*, 1992, **70**, 1905 (*isol, pmr, cmr*)

Dehydrobruceolide

D-10029

Updated Entry replacing D-00285

C₂₇H₂₄O₁₀ M 436.41515-Ac: [53730-90-8]. **Dehydrobrucein B**C₂₃H₂₆O₁₁ M 478.452Constit. of *Brucea antidysenterica* and *B. javanica*. Oil.[α]_D²⁴ +40.5° (c, 0.2 in CHCl₃).15-Benzoyl: [53663-00-6]. **Dehydrobruceantarin**C₂₈H₂₈O₁₁ M 540.523Constit. *B. antidysenterica*. Oil. [α]_D²⁴ +68° (c, 0.15 in Py).

15-O-(3,4-Dimethyl-2E-pentenyl): [53662-98-9].

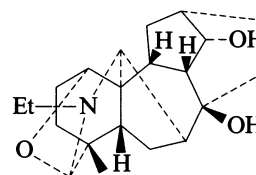
DehydrobruceantinC₂₈H₃₄O₁₁ M 546.570Constit. of *B. antidysenterica*. Oil. [α]_D²⁵ +79° (c, 0.62 in Py).

15-(3-Hydroxy-2-isopropylidenebutanoyl): [53663-02-8].

DehydrobruceantolC₂₈H₃₄O₁₂ M 562.569Constit. of *B. antidysenterica*. Oil. [α]_D²³ +30° (c, 0.11 in CHCl₃).15-(3-Methylbutanoyl): [73435-47-9]. **Dehydrobrucein A**C₂₆H₃₂O₁₁ M 520.532Constit. of *B. javanica*.Kupchan, S.M. *et al*, *J. Org. Chem.*, 1975, **40**, 648.Philipson, J.D. *et al*, *Planta Med.*, 1981, **41**, 209 (*Dehydrobrucein A*)

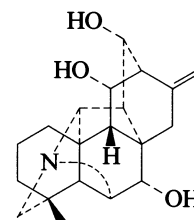
Dehydrocardiopetaline

D-10030

C₂₁H₃₁NO₃ M 345.481Alkaloid from above-ground parts of *Delphinium cossonianum* (Ranunculaceae). Amorph. [α]_D +17.8° (c, 0.80 in CHCl₃).de la Fuente, G. *et al*, *Phytochemistry*, 1993, **34**, 553 (*isol, ir, pmr, cmr, ms, struct*)

Delfissinol

D-10031

C₂₀H₂₇NO₃ M 329.438Alkaloid from aerial parts of *Delphinium fissum* ssp. *anatolicum* (Ranunculaceae). Amorph. [α]_D²⁰ -39.1° (c, 0.2 in MeOH).Ulubelen, A. *et al*, *Phytochemistry*, 1993, **34**, 1165 (*isol, ir, pmr, cmr, ms, struct*)

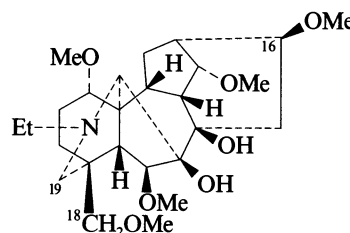
Delphatine

D-10032

Updated Entry replacing D-00368

18-O-Methyllycoctonine. *Delsonine*

[25488-62-4]

C₂₆H₄₃NO₇ M 481.628Identity of Delsonine (From *D. consolida*) with Delphatine is not conclusively establ. Alkaloid from the roots, seeds and aerial parts of *Delphinium biternatum*, from *D. consolida* and from the seeds of *Consolida ambigua*, (formerly *D. ajacis*) (Ranunculaceae). Amorph. solid. [α]_D²⁹ +38.2° (c, 2.95 in CHCl₃).*B, HClO₄*: Mp 212-214° (205-207°). [α]_D³² +23° (c, 0.412 in MeOH).O¹⁶-De-Me: [66891-14-3]. **Delbiterine. 16-Demethyldelphatine**C₂₅H₄₁NO₇ M 467.601Alkaloid from the roots of *D. biternatum* (Ranunculaceae). Mp 137-138°.19-Oxo: [25488-63-5]. **19-Oxodelphatine**C₂₆H₄₁NO₈ M 495.612Alkaloid from the stems and leaves of *D. ajacis* (Ranunculaceae). [α]_D +32.8° (c, 0.31 in CHCl₃).O⁶-De-Me: **6-Demethyldelphatine**C₂₅H₄₁NO₇ M 467.601

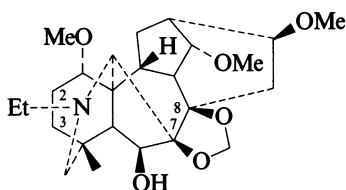
Alkaloid from roots of *Aconitum septentrionale* (Ranunculaceae). Amorph. $[\alpha]_D^{20} + 19.3^\circ$ (c, 0.295 in CHCl_3).

- Marion, L. et al, *J. Am. Chem. Soc.*, 1947, **69**, 2010 (*Delsonine*)
 Abubakirov, N.K. et al, *CA*, 1955, **49**, 5495.
 Yunusov, M.S. et al, *Dokl. Akad. Nauk SSSR*, 1969, **188**, 1077;
 1970, **6**, 334; *CA*, **72**, 32091h; **73**, 77443m (*struct*)
 Pelletier, S.W. et al, *Heterocycles*, 1977, **7**, 327 (*cmr*)
 Salimov, B.T. et al, *Khim. Prir. Soedin.*, 1978, 106; *Chem. Nat. Compd. (Engl. Transl.)*, 84 (*Delbiterine*)
 Pelletier, S.W. et al, *J. Nat. Prod. (Lloydia)*, 1980, **43**, 395 (*isol*)
 Pelletier, S.W. et al, *J. Am. Chem. Soc.*, 1981, **103**, 6536 (*config*)
 Edwards, O.E. et al, *Can. J. Chem.*, 1982, **60**, 2661 (*config*)
 Liang, X. et al, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 1283 (*19-Oxodelphatine*)
 Sayed, H.M. et al, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1595 (*6-Demethyldephatine*)

Delpheline

D-10033

Updated Entry replacing D-00369
 [509-28-4]



$\text{C}_{25}\text{H}_{39}\text{NO}_6$ M 449.586

Alkaloid from the seeds of *Delphinium elatum* and from the roots and aerial parts of *D. ternatum* (Ranunculaceae) also from *D. occidentale*. Prisms (EtOH aq.). Mp 227° (210-212°, 216-219°). $[\alpha]_D^{15} - 25.8^\circ$ (c, 2 in CHCl_3).

B, HCl: Prisms + $1\text{H}_2\text{O}$ (Me_2CO aq.). Mp 219° (frothing). $[\alpha]_D^{20} - 42.8^\circ$ (c, 2 in H_2O).

B, HI: Cryst. (MeOH/EtOAc). Mp 213-214° dec.

B, HNO₃: Prisms (Me_2CO aq.). Mp 191-193°. $[\alpha]_D^{22} - 41.2^\circ$ (c, 2 in H_2O).

Ac: [42907-15-3]. **6-Acetyldepheline**

$\text{C}_{27}\text{H}_{41}\text{NO}_7$ M 491.623

Alkaloid from *D. barbeyi* and aerial parts of *D. occidentale* (Ranunculaceae). Prisms (EtOH aq.). Mp 125° (120-122°). $[\alpha]_D^{20} - 34.5^\circ$ (c, 2 in EtOH).

O^{16} -*De-Me*: [123064-69-7]. **Eladine**

$\text{C}_{24}\text{H}_{37}\text{NO}_6$ M 435.559

Alkaloid from the seeds of *D. elatum* (Ranunculaceae). Amorph. $[\alpha]_D^{23} - 57.5^\circ$ (c, 0.89 in CHCl_3).

O^6 -*Me*: [122384-95-6]. **Paciline**. 6-O-Methyldepheline

$\text{C}_{26}\text{H}_{41}\text{NO}_6$ M 463.613

Alkaloid from seeds of the *D.* hybrid 'pacific giant' (Ranunculaceae). Amorph. $[\alpha]_D - 7.2^\circ$ (c, 1.0 in CHCl_3).

6-*Ketone*: [60223-97-4]. **Pacinine**. 6-Dehydrodepheline

$\text{C}_{25}\text{H}_{37}\text{NO}_6$ M 447.570

Alkaloid from seeds of the *D.* hybrid 'pacific giant' (Ranunculaceae). Mp 133-135.5°. $[\alpha]_D - 58^\circ$ (c, 1.0 in MeOH).

6-*Deoxy*: [113707-10-1]. **6-Deoxydepheline**. *Occidentaline*

$\text{C}_{25}\text{H}_{39}\text{NO}_5$ M 433.587

Alkaloid from *D. barbeyi* and *D. occidentale* (Ranunculaceae). Mp 119.5-120.5° (112-115°).

2,3-*Didehydro*: [86695-19-4]. **Deacetylatsiensine**

Plates (EtOH). Mp 236-238°. $[\alpha]_D^{25} + 28.8^\circ$ (c, 0.34 in EtOH).

2,3-*Didehydro*, *Ac*: [86695-18-3]. **Tatsiensine**

$\text{C}_{27}\text{H}_{39}\text{NO}_7$ M 489.608

Alkaloid from the roots of *D. kamaonense* and *D. tatsienense* (Ranunculaceae). Amorph. $[\alpha]_D^{25} + 17.4^\circ$ (c, 0.3 in EtOH).

O^{14} -*De-Me*: [119371-58-3]. **Delelatine**

$\text{C}_{24}\text{H}_{37}\text{NO}_6$ M 435.559

Alkaloid from seeds of *D. elatum* and from *D. tatsienense* (Ranunculaceae). Cryst. (Et₂O). Mp 84.5-86.5°.

O^{14} -*De-Me*, *di-Ac*: $[\alpha]_D^{23} - 62.4^\circ$ (c, 0.62 in CHCl_3).

O^{14} -*De-Me*, 6-*ketone*: [90718-33-5]. **Yunnadelphinine**

$\text{C}_{24}\text{H}_{35}\text{NO}_6$ M 433.544

Alkaloid from *D. yunnanense* (Ranunculaceae).

O^{14} -*De-Me*, 6-*ketone*, O^{14} -*Ac*: [123519-72-2]. **Barbinidine**

$\text{C}_{26}\text{H}_{37}\text{NO}_7$ M 475.581

Alkaloid from aerial parts of *D. barbeyi* (Ranunculaceae). Cryst. (Me_2CO /hexane). Mp 215-216°.

O^{14} -*De-Me*, O^6 -*Me*: [123064-67-5]. **Isodelpheline**

$\text{C}_{25}\text{H}_{39}\text{NO}_6$ M 449.586

Alkaloid from the seeds of *D. elatum* (Ranunculaceae). $[\alpha]_D^{26} - 1.2^\circ$ (c, 1 in CHCl_3).

O^{14} -*De-Me*, O^6 -*Me*, *Ac*: Cryst. (pet. ether). Mp 116-118°.

$[\alpha]_D^{26} + 13.5^\circ$ (c, 0.17 in CHCl_3).

$\text{O}^1, \text{O}^{14}$ -*Di-de-Me*: **Delmenzine**

$\text{C}_{23}\text{H}_{35}\text{NO}_6$ M 421.533

Alkaloid from *D. menziesii* (Ranunculaceae). Amorph.

O^1 -*De-Me*: **Pacidine**

$\text{C}_{24}\text{H}_{37}\text{NO}_6$ M 435.559

Alkaloid from seeds of *D. elatum* cv. 'Pacific Giant' (Ranunculaceae). Amorph. solid. $[\alpha]_D^{20} - 14.3^\circ$ (c, 0.49 in CHCl_3).

Goodson, J.A., *J. Chem. Soc.*, 1943, 139; 1944, 665 (*isol, struct*)
 Cookson, R.C. et al, *J. Chem. Soc.*, 1956, 2689, 3121 (*isol, w, struct*)

Edwards, O.E. et al, *Can. J. Chem.*, 1958, **36**, 1097 (*struct*)

Carmack, M. et al, *J. Am. Chem. Soc.*, 1958, **80**, 497 (*struct*)

Pelletier, S.W. et al, *J. Am. Chem. Soc.*, 1981, **103**, 6536 (*config*)

Pelletier, S.W. et al, *Heterocycles*, 1983, **20**, 1347 (*synth, pmr, cmr, deriv*)

Matveev, V.M. et al, *Khim. Prir. Soedin.*, 1983, **19**, 657; *Chem. Nat. Compd. (Engl. Transl.)*, 627 (*isol*)

Luo, S. et al, *CA*, 1984, **101**, 35860m (*Yunnadelphinine*)

Jiang, Q.P. et al, *Heterocycles*, 1984, **22**, 2429 (*cmr*)

Kulanthaivel, P. et al, *Heterocycles*, 1988, **27**, 339 (*Occidentaline*)

Ross, S.A. et al, *Phytochemistry*, 1988, **27**, 3719 (*isol, ir, pmr, cmr, ms, struct*)

Joshi, B.S. et al, *Tetrahedron Lett.*, 1988, **29**, 2397 (*Occidentaline, 6-Deoxydepheline*)

Bando, H. et al, *Heterocycles*, 1989, **29**, 1293 (*Paciline, Pacinine*)

Pelletier, S.W. et al, *Phytochemistry*, 1989, **28**, 1521 (*Barbinidine*)

Pelletier, S.W. et al, *Tetrahedron*, 1989, **45**, 1887 (*isol, ir, pmr, cmr, ms, struct, Isodelpheline, Eladine*)

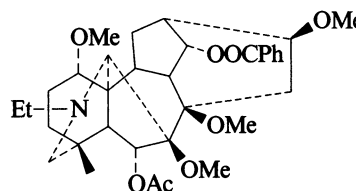
Sun, F. et al, *Heterocycles*, 1991, **32**, 1963 (*Delmenzine*)

Wada, K. et al, *Phytochemistry*, 1992, **31**, 2135 (*Pacidine*)

Delphipergrine

D-10034

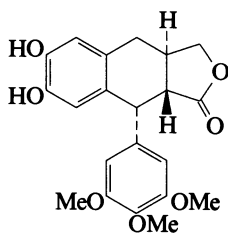
[142609-22-1]



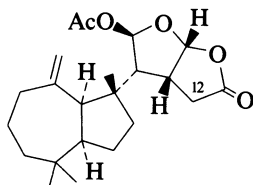
$\text{C}_{34}\text{H}_{47}\text{NO}_8$ M 597.747

Alkaloid from aerial parts of *Delphinium peregrinum* (Ranunculaceae). $[\alpha]_D^{22} + 5.6^\circ$ (c, 0.2 in MeOH).

Ulubelen, A. et al, *Phytochemistry*, 1992, **31**, 1019 (*isol, ir, pmr, cmr, ms, struct*)

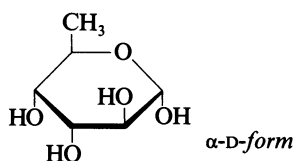
4,5-Demethylene-7-deoxypodophyllotoxin **D-10035**
[1173-42-8]

$C_{21}H_{22}O_7$ M 386.401
Isol. from seeds of *Hernandia ovigera*. Needles (EtOH).
Mp 238-241°. $[\alpha]_D -113^\circ$ (c, 0.086 in $CHCl_3$).
Ito, C. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 1319.

Dendrillolide A **D-10036**
Updated Entry replacing D-00424
[91158-68-8]

$C_{22}H_{32}O_5$ M 376.492
Constit. of a *Dendrilla* sp. and *Chelonaphysilla violacea*.
Oil. $[\alpha]_D^{20} +83.51^\circ$ (c, 3.8 in $CHCl_3$). Formerly this
struct. was assigned to Dendrillolide B. The struct. of
Dendrillolide B has not been reassigned.
12β-Acetoxy: [104311-71-9]. *Macfarlandin E*. *Aplyviolacene*
 $C_{24}H_{34}O_7$ M 434.528
Constit. of *Chromodoris macfarlandi*, *C. norrisi*,
Chelonaphysilla violacea and *Dysidea* sp. Glass. $[\alpha]_D$
 -34° (c, 0.05 in $CHCl_3$).

Sullivan, B. *et al*, *J. Org. Chem.*, 1984, **49**, 3204 (*isol*)
Molinski, T.F. *et al*, *J. Org. Chem.*, 1986, **51**, 4564 (*struct*)
Hambley, T.W. *et al*, *Tetrahedron Lett.*, 1986, **27**, 3281 (*isol*)
Carmely, S. *et al*, *J. Org. Chem.*, 1988, **53**, 4801 (*isol*, *pmr*, *cmr*)
Bobzin, S.C. *et al*, *J. Org. Chem.*, 1989, **54**, 5727 (*struct*)
Bergquist, P.R. *et al*, *Aust. J. Chem.*, 1993, **46**, 623 (*isol*, *pmr*, *cmr*)

6-Deoxyaltrose **D-10037**
Altromethylose

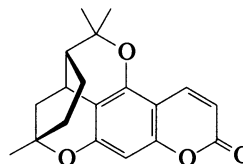
$C_6H_{12}O_5$ M 164.158
Found in polysialoglycoprotein of *Salvelinus leucomaemis*
eggs. Only 6-deoxyhexose other than fucose found in
glycoproteins.

D-form [18546-02-6]
Syrup. $[\alpha]_D +16.2^\circ$ (H_2O).

p-Bromophenylosazone: Mp 177-178°. $[\alpha]_D +8^\circ$ ($CHCl_3$).

L-form [32738-74-2]
Syrup. $[\alpha]_D -17.3^\circ$.

p-Bromophenylosazone: Mp 132°. $[\alpha]_D -1^\circ$ ($CHCl_3$).
Freudenberg, K. *et al*, *Ber.*, 1929, **62**, 373.
Iwasaki, M. *et al*, *Eur. J. Biochem.*, 1987, **168**, 185 (*isol*)

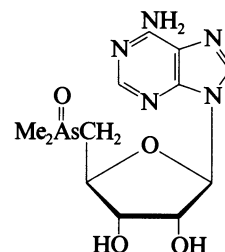
Deoxybruceol **D-10038**
[31750-71-7]

$C_{19}H_{20}O_4$ M 312.365
Not the deoxy deriv. of Bruceol, B-00969. Constit. of
Eriostemon brucei. Mp 117-123°.

Begley, M.J. *et al*, *J. Chem. Soc., Chem. Commun.*, 1976, 140
(*synth*)

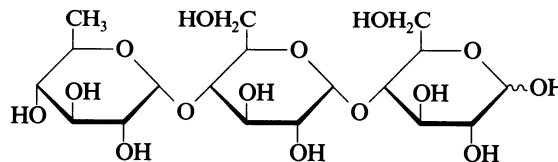
Ghisalberti, E.L. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1981, 583
(*config*)

Gray, A.I. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 681 (*pmr*, *cmr*)

5'-Deoxy-5'-(dimethylarsinyl)adenosine **D-10039**
9CI
[137138-03-5]

$C_{12}H_{18}AsN_5O_4$ M 371.227
Isol. from the kidney of the giant clam, *Tridacna maxima*.
 $[\alpha]_D +54.2^\circ$ (c, 3 in MeOH).

Francesconi, K.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1991, 928
(*isol*)

6-Deoxy-α-D-glucopyranosyl-(1→4)-α-D-glucopyranosyl-(1→4)-D-glucose **D-10040**
[61637-54-5]

Pyranose-form

$C_{18}H_{32}O_{15}$ M 488.442
Prod. formed by the action of bacterial amylase on
deoxyamylose. $[\alpha]_D^{25} +143^\circ$ (c, 0.9 in H_2O).

Takeo, K. *et al*, *Carbohydr. Res.*, 1976, **51**, 73.

Weill, C.E. *et al*, *Carbohydr. Res.*, 1979, **73**, 337.

Deoxyribonucleic acid, 9CI, 8CI **D-10041**
DNA. Thymus nucleic acid

A polynucleotide constructed from chains of 2-deoxy-D-
ribose purine and pyrimidine units linked by phosphate
diester bonds between the 3'- and 5'-hydroxyls of

adjacent sugars. DNA from viruses have molecular weights ca. $1-130 \times 10^6$ whereas bacterial and animal DNA has much higher molecular weights with chains easily severed during isoln. The adenine and thymine contents are equal and the guanine and cytosine contents also equal, regardless of source. In the secondary structure two polymer chains form right-handed helices about a common axis, with the sequence of atoms running in opposite directions in each strand. The bases are inside the helix and the adenine of one chain is hydrogen bonded to the thymine of the other and similarly with the guanine and cytosine. Present in all life forms except some viruses. An essential component of chromosomes in cell nuclei which carries genetic information by containing a chemical code in its structure, which is exactly reproducible. The linear sequence of bases in one strand determines the sequence in the other. Thus each strand can serve as a template for replication of the original DNA molecule. DNA also serves as a template for the formation of ribonucleic acids.

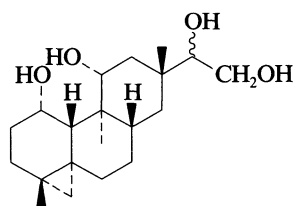
- Watson, J.D. *et al*, *Nature (London)*, 1953, **171**, 737, 964 (*struct*)
 Chargaff, E. *et al*, *The Nucleic Acids*, Academic Press, Vol. 1, 1955 (*rev*)
 Brown, D.M. *et al*, *Compr. Biochem.*, (Florin, M. *et al*, Ed.), 1963, **8**, 157 (*rev*)
 Crick, F., *Nature (London)*, 1970, **227**, 561.
 Davidson, J.N., *The Biochemistry of Nucleic Acids*, Academic Press, 7th Ed., 1972.
 Narang, S.A., *Tetrahedron*, 1983, **39**, 3 (*rev*)
 Jankowski, K. *et al*, *Adv. Heterocycl. Chem.*, 1986, **39**, 79 (*rev, ms*)
 Taillandier, E. *et al*, *J. Mol. Struct.*, 1989, **214**, 185 (*rev, ir, raman*)
 Wemmer, D.E., *Biol. Magn. Reson.*, 1992, **10**, 195 (*rev, nmr*)

Dethymicin**D-10042**

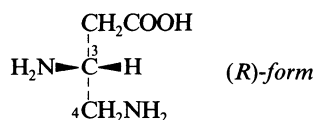
[146259-43-0]

 $C_{71}H_{126}N_2O_{21}$ M 1343.777

Struct. unknown. Prod. by *Amycolatopsis mediterranei*.
 Immunosuppressant. Powder + $4H_2O$. Mp 137-139°.
 $[\alpha]_D^{26} - 33.3^\circ$ (c, 0.733 in MeOH).

Ueno, M. *et al*, *J. Antibiot.*, 1992, **45**, 1819 (*isol, props*)**1,11,15,16-Devadaranetetrol****D-10043** $C_{20}H_{34}O_4$ M 338.486**(ent-1 β ,11 β ,15 ξ)-form** [150036-24-1]*1 β ,11 β -Dihydroxyerythroxydiol X*

Constit. of *Erythroxylum australe*. $[\alpha]_D - 20^\circ$ (CH_2Cl_2)
 (as di-Ac).

Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 937 (*isol, cmr*)**3,4-Diaminobutanoic acid****D-10044** $C_4H_{10}N_2O_2$ M 118.135**(R)-form**

B,2HCl: Cryst. (EtOH aq.). Mp 222-223°. $[\alpha]_D + 7.9^\circ$ (c, 1 in H_2O).

N⁴-Tri-Me: [98063-21-9]. *2-Amino-3-carboxy-N,N,N-trimethyl-1-propanaminium, 9Cl. Emeriamine*
 $C_7H_{16}N_2O_2$ M 160.216

Isol. from *Emericella quadrilineata*. Antidiabetic. Zwitterionic.

N⁴-Tri-Me, B,2HCl: [96201-14-8].

Mp 219-220° dec. $[\alpha]_D + 7.6^\circ$ (c, 1 in H_2O).

N⁴-Tri-Me, Me ester: Yellow needles (MeOH) (as dipicrate). Mp 139-140° (as dipicrate). $[\alpha]_D - 0.7^\circ$ (c, 1 in DMF).

N³-Ac, N⁴-tri-Me: [96186-68-4]. *2-(Acetylamino)-3-carboxy-N,N,N-trimethyl-1-propanaminium hydroxide inner salt, 9Cl. Emericedin A. FA 5859. Antibiotic FA 5859*
 $C_9H_{18}N_2O_3$ M 202.253

Isol. from *E. quadrilineata* and *Aspergillus* sp. 3704.

Inhibitor of fatty acid degradn. Diuretic. Prisms (EtOH/Et₂O). Mp 174-175°. $[\alpha]_D - 16.3^\circ$ (c, 1 in H_2O).

N³-Propanoyl, N⁴-tri-Me: [101396-05-8]. ***Emericedin B***
 $C_{10}H_{20}N_2O_3$ M 216.280

Isol. from *E. quadrilineata*. Yellow needles (as monopicrate). Mp 191-193° (as monopicrate). $[\alpha]_D - 6.4^\circ$ (c, 0.39 in MeOH).

N³-Butanoyl, N⁴-tri-Me: [96186-43-5]. ***Emericedin C***
 $C_{11}H_{22}N_2O_3$ M 230.306

Isol. from *E. quadrilineata*. Yellow needles (as monopicrate). Mp 176-177° (as monopicrate). $[\alpha]_D - 5.1^\circ$ (c, 0.39 in MeOH).

(S)-form

B,2HCl: [141318-80-1].

Cryst. (EtOH aq.). Mp 221-222°. $[\alpha]_D - 7.2^\circ$ (c, 1 in H_2O).

N⁴-Tri-Me: [125377-87-9].

Cryst. (MeOH/Et₂O) (as dihydrochloride). Mp 214-216° dec. (as dihydrochloride). $[\alpha]_D - 8.2^\circ$ (c, 0.58 in H_2O).

N³-Ac, N⁴-tri-Me: Cryst. (MeOH/Et₂O) (as dihydrochloride). Mp 218-220° dec. (as dihydrochloride). $[\alpha]_D + 20.5^\circ$ (c, 0.92 in H_2O).

(±)-form [131530-16-0]

B,2HCl: [109754-82-7].

Cryst.

Pat. Coop. Treaty (WIPO), 83 01 952, (1983); *CA*, **99**, 120691.
 Shinagawa, S. *et al*, *J. Med. Chem.*, 1987, **30**, 1458 (*Emeriamine, Emericedins*)

Cardillo, G. *et al*, *Synlett*, 1990, 543 (*synth*)

Misiti, D. *et al*, *Synth. Commun.*, 1992, **22**, 883 (*synth*)

4,4'-Diaminodibutylamine, 8Cl**D-10045**

Updated Entry replacing D-00626

N-(4-Aminobutyl)-1,4-butanediamine, 9Cl. sym-Homospermidine. 1,9-Diamino-5-azonanane
 [4427-76-3]

 $C_8H_{21}N_3$ M 159.274

Constit. of *Santalum album* (sandalwood) and present in legume root nodules. Also isol. from organs of the Japanese newt and from roots of water hyacinth *Eichhornia crassipes*.

B,2HCl: Mp 283-285° dec.

N¹-(3-Aminopropyl): [86812-44-4]. *N¹-(3-Aminopropyl) homospermidine*

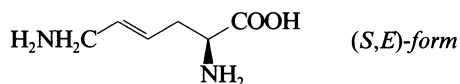
$C_{11}H_{28}N_4$ M 216.369

Constit. of the seeds of *Vicia sativa*. Also prod. by various bacteria incl. *Acidothermus* sp. and *Agrobacterium* sp. Residue present in Glysperin A, G-00606.

[138656-54-9]

Kuttan, R. *et al*, *Biochemistry*, 1971, **10**, 361 (*isol, synth*)
 Yamamoto, S. *et al*, *Chem. Pharm. Bull.*, 1983, **31**, 3315 (*isol*)
 Samejima, K. *et al*, *Chem. Pharm. Bull.*, 1984, **32**, 3428
 (Aminopropylhomospermidine)
 Hamana, K. *et al*, *Can. J. Microbiol.*, 1990, **36**, 567; 1991, **37**, 350
 (Aminopropyl homospermidine)
 Ramaswamy, S. *et al*, *CA*, 1992, **116**, 55605v (*cryst struct*)

2,6-Diamino-4-hexenoic acid, 9CI **D-10046**
 4,5-Didehydrolysine

C₆H₁₂N₂O₂ M 144.173

(S)-(E)-form [13004-62-1]

Prod. by *Nocardioopsis* sp.

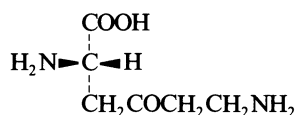
(±)-(E)-form [39871-25-5]

B,HCl: Mp 238-239°.

B,2HCl: Cryst. (EtOH). Mp 201-205°.

Davis, A.L. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6800 (*synth, struct*)
Japan. Pat., 92 88 993, (1992); *CA*, **117**, 149454 (*isol*)

2,6-Diamino-4-oxohexanoic acid **D-10047**
 4-Oxolysine

C₆H₁₂N₂O₃ M 160.172

(S)-form [118021-34-4]

L-form

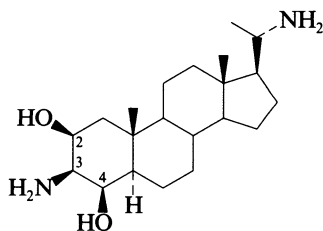
Prod. by *Streptomyces* sp.

B,2HCl: [37637-24-4].

Hygroscopic solid. Mp 160-180°.

John, D.I. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1972, 1825 (*synth*)
Japan. Pat., 92 288 992, (1992); *CA*, **117**, 149453 (*isol*)

3,20-Diaminopregnane-2,4-diol **D-10048**

C₂₁H₃₈N₂O₂ M 350.543

CA gives incorrect names for Axillarines C-F.

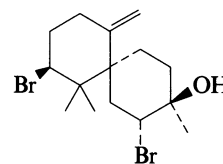
(2β,3β,4β,20S)-form

N²⁰,N²⁰-Di-Me, N³-benzoyl: [128255-09-4]. *Axillarine E*C₃₀H₄₆N₂O₃ M 482.705Alkaloid from *Pachysandra axillaris* (Buxaceae). Cryst.
 Mp 285-290°.N²⁰,N²⁰-Di-Me, N³-benzoyl, 4-Ac: [128255-10-7]. *Axillarine C*C₃₂H₄₈N₂O₄ M 524.742Alkaloid from *P. axillaris* (Buxaceae). Cryst. Mp 272-
 274°. [α]_D²² + 22.4° (c, 0.981 in CHCl₃).N²⁰,N²⁰-Di-Me, N³-benzoyl, 2,4-di-Ac: [128255-11-8].*Axillarine D*C₃₄H₅₀N₂O₅ M 566.779Alkaloid from *P. axillaris* (Buxaceae). Cryst. Mp 223-
 225°. [α]_D²² + 11.6° (c, 0.433 in CHCl₃).
 N²⁰,N²⁰-Di-Me, N³-tigloyl, 4-Ac: [128255-12-9]. *Axillarine F*C₃₀H₅₀N₂O₄ M 502.736Alkaloid from *P. axillaris* (Buxaceae). Cryst. Mp 241-
 244°. [α]_D²² + 29.5° (c, 0.398 in CHCl₃).Chiu, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 25 (*isol, ir, pmr, cmr, ms, struct*)

Diapause hormone **D-10049**
 [137534-96-4]

H-Thr-Asp-Met-Lys-Asp-Glu-Ser-Asp-Arg-Gly-Ala-His-
 Ser-Glu-Arg-Gly-Ala-Leu-Cys-Phe-Gly-Pro-Arg-Leu-NH₂Secreted from the suboesophageal ganglion of the
 silkworm *Bombyx mori*. Neuropeptide hormone which
 induces the embryonic diapause.Imai, K. *et al*, *Proc. Jpn. Acad., Ser. B*, 1991, **67**, 98 (*isol, synth*)

2,11-Dibromo-7(14)-chamigren-3-ol **D-10050**
 2,8-Dibromo-5(14)-chamigren-9-ol

C₁₅H₂₄Br₂O M 380.162Constit. of *Laurencia flexilis*. Oil.de Nys, R. *et al*, *Phytochemistry*, 1993, **34**, 725 (*isol, pmr, cmr*)

1,1-Dibromo-1-chloro-2-propanone, 9CI **D-10051**
 1,1-Dibromo-1-chloroacetone

H₃CCOCClBr₂C₃H₃Br₂ClO M 250.317Minor component of the essential oil of the edible
 Hawaii red alga, *Asparagopsis taxiformis*.Burreson, B.J. *et al*, *J. Agric. Food Chem.*, 1976, **24**, 856 (*synth, pmr, ms, gc-ms*)

1,1-Dibromo-3-chloro-2-propanone, 9CI **D-10052**
 1,1-Dibromo-3-chloroacetone

[1578-18-3]

Br₂CHCOCH₂ClC₃H₃Br₂ClO M 250.317Minor component of the red algae, *Asparagopsis taxiformis* and *Falkenbergia rufolanosa*.Rappe, C. *et al*, *Ark. Kemi*, 1965, **24**, 105 (*synth*)Fenical, W., *Tetrahedron Lett.*, 1974, 4463 (*isol, gc-ms, synth*)Codomier, L. *et al*, *C. R. Hebd. Seances Acad. Sci. Ser. D*, 1977, **284**, 1163 (*isol, glc*)

1,3-Dibromo-1-chloro-2-propanone, 9CI **D-10053**
 1,3-Dibromo-1-chloroacetone

[55716-00-2]

BrCH₂COCHBrClC₃H₃Br₂ClO M 250.317

(±)-form

Component of the red algae, *Asparagopsis taxiformis*, *A. armata* and tetrasporophyte *Falkenbergia rufolanosa*.
Bp₁₀ 95-97°. n_D^{25} 1.5632.

- Rappe, C. *et al*, *Ark. Kemi*, 1965, **24**, 105 (*synth*)
Codomier, L. *et al*, *C. R. Hebd. Seances Acad. Sci. Ser. D*, 1977, **284**, 1163 (*isol*)
Bruneau, Y. *et al*, *C. R. Hebd. Seances Acad. Sci. Ser. D*, 1978, **286**, 603 (*isol*)
Combaut, G. *et al*, *Phytochemistry*, 1978, **17**, 1661 (*isol, glc*)

1,1-Dibromo-3,3-dichloro-2-propanone, 9CI D-10054

1,1-Dibromo-3,3-dichloroacetone
[62874-83-3]



$\text{C}_3\text{H}_2\text{Br}_2\text{Cl}_2\text{O}$ M 284.762

Component of the red alga, *Asparagopsis armata* and tetrasporophyte, *Falkenbergia rufolanosa*.

- McConnell, O. *et al*, *Phytochemistry*, 1977, **16**, 367 (*isol, gc-ms*)
Bruneau, Y. *et al*, *C. R. Hebd. Seances Acad. Sci. Ser. D*, 1978, **286**, 603 (*isol, glc*)
Combaut, G. *et al*, *Phytochemistry*, 1978, **17**, 1661 (*isol, glc*)

1,3-Dibromo-1,3-dichloro-2-propanone, 9CI D-10055

1,3-Dibromo-1,3-dichloroacetone
[62874-84-4]



$\text{C}_3\text{H}_2\text{Br}_2\text{Cl}_2\text{O}$ M 284.762

Component of the red alga, *Asparagopsis armata* and tetrasporophyte, *Falkenbergia rufolanosa*.

- McConnell, O. *et al*, *Phytochemistry*, 1977, **16**, 367 (*isol, glc*)
Bruneau, Y. *et al*, *C. R. Hebd. Seances Acad. Sci. Ser. D*, 1978, **286**, 603 (*isol, glc*)
Combaut, G. *et al*, *Phytochemistry*, 1978, **17**, 1661 (*isol, glc*)

1,1-Dibromo-3-iodo-2-propanone, 9CI D-10056

1,1-Dibromo-3-iodoacetone
[59227-99-5]



$\text{C}_3\text{H}_3\text{Br}_2\text{IO}$ M 341.769

Minor component of the essential oil of the edible Hawaii red alga, *Asparagopsis taxiformis*, and *A. armata*.

- Burreson, B.J. *et al*, *J. Agric. Food Chem.*, 1976, **24**, 856 (*isol, gc-ms*)
McConnell, O. *et al*, *Phytochemistry*, 1977, **16**, 367 (*isol, gc-ms*)

1,1-Dibromo-2-propanone, 9CI D-10057

1,1-Dibromoacetone
[867-54-9]



$\text{C}_3\text{H}_4\text{Br}_2\text{O}$ M 215.872

Minor component of the essential oil of the edible Hawaii red alga *Asparagopsis taxiformis*, and of *Falkenbergia rufolanosa*. Liq. Bp₁₃ 55-57°. pK_a 11.9 (H_2O , 25°). n_D^{25} 1.5237.

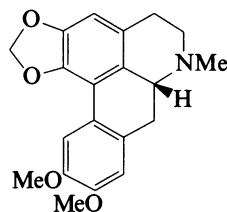
- Hughes, E.D. *et al*, *J. Chem. Soc.*, 1931, 3318 (*synth*)
Rappe, C., *Ark. Kemi*, 1964, **21**, 503 (*synth, pmr, ir*)
Takahashi, K., *Bull. Chem. Soc. Jpn.*, 1964, **37**, 963 (*pmr*)
Burreson, B.J. *et al*, *J. Agric. Food Chem.*, 1976, **24**, 856 (*isol, glc*)
Combaut, G. *et al*, *Phytochemistry*, 1978, **17**, 1661 (*isol, glc*)

- Geigert, J. *et al*, *J. Biol. Chem.*, 1983, **258**, 2273 (*gc-ms*)
Guthrie, J.P. *et al*, *J. Am. Chem. Soc.*, 1984, **106**, 1351 (*pKa*)
Bostroem, G.O. *et al*, *J. Mol. Struct.*, 1987, **158**, 23 (*conformn*)

Dicentrine**D-10058**

Updated Entry replacing D-00796

9,10-Dimethoxy-1,2-methylenedioxyaporphine. N,O-Dimethylactinodaphnine. Eximine†

**(R)-form**

$\text{C}_{20}\text{H}_{21}\text{NO}_4$ M 339.390

(R)-form [28832-07-7]

Alkaloid from a Brazilian *Duguetia* sp. (Annonaceae).
Mp 169°. $[\alpha]_D -53^\circ$ (c, 1 in CHCl_3).

N-De-Me: (–)-*Nordicentrine*

$\text{C}_{19}\text{H}_{19}\text{NO}_4$ M 325.363

Alkaloid from tubers of *Stephania pierrei* (Menispermaceae). Mp 248° dec. $[\alpha]_D^{20} -34^\circ$ (c, 0.2 in MeOH).

(S)-form [517-66-8]

Alkaloid from a variety of genera in the Lauraceae (*Cassytha*, *Laurus*, *Lindera*, *Ocotea*, *Litsea*), Menispermaceae (*Cocculus*, *Cissampelos*, *Stephania*), Fumariaceae (*Dicentra*) and Papaveraceae (*Glaucium*).
Mp 168-169°. $[\alpha]_D +57^\circ$ (c, 1 in EtOH).

B,HCl: Mp 169°.

B,MeI: Mp 224°.

N-De-Me: [25394-59-6]. (+)-*Nordicentrine*. *9,10-*

Dimethoxy-1,2-methylenedioxyaporphine

$\text{C}_{19}\text{H}_{19}\text{NO}_4$ M 325.363

Alkaloid from the trunk and leaves of *Lindera oldhamii*, the leaves of *Litsea salicifolia*, and the stem bark of *Guatteria scandens* (Lauraceae, Annonaceae). Mp 254-255° dec. $[\alpha]_D^{31} +31^\circ$ (c, 0.65 in MeOH).

4S-Hydroxy: [72170-12-8]. **4-Hydroxydicentrine**

$\text{C}_{20}\text{H}_{21}\text{NO}_5$ M 355.390

Alkaloid from leaves of *Ocotea minarum* (Lauraceae).
Mp 210°. $[\alpha]_D +60^\circ$ (c, 0.5 in CHCl_3).

6a,7-Didehydro: see *Dehydrodicentrine*, D-00295

(±)-form [26110-43-0]

Has bactericidal activity. Mp 178-179°.

B,HCl: Mp 263-265° dec.

B,MeI: Mp 228-229°.

Asahina, Y. *et al*, *Arch. Pharm. (Weinheim, Ger.)*, 1909, **247**, 201 (*isol*)

Haworth, R.D. *et al*, *J. Chem. Soc.*, 1925, **127**, 2018; 1926, **128**, 29 (*synth*)

Craig, J.C. *et al*, *Tetrahedron*, 1965, **21**, 395 (*ord, uv*)

Casagrande, C. *et al*, *Farmaco, Ed. Sci.*, 1970, **25**, 442 (*isol*)

Lu, S.T. *et al*, *Yakugaku Zasshi*, 1972, **92**, 910 (*isol, pmr, ir*)

Cava, M.P. *et al*, *Tetrahedron*, 1973, **29**, 2245 (*synth*)

Chen, I.S., *J. Chin. Chem. Soc. (Taipei)*, 1977, **24**, 41; *CA*, **87**, 35908a ((+)-*Nordicentrine*)

O'Brien, J.P. *et al*, *Heterocycles*, 1978, **11**, 347 (*synth*)

Vecchietti, V. *et al*, *Farmaco, Ed. Sci.*, 1979, **34**, 829 (*4-Hydroxydicentrine*)

Ricca, G.S. *et al*, *Gazz. Chim. Ital.*, 1979, **109**, 1 (*cmr*)

Marsaioli, A.J. *et al*, *Phytochemistry*, 1979, **18**, 165 (*cmr*)

Rastogi, R.C. *et al*, *Phytochemistry*, 1980, **19**, 998 ((+)-*Nordicentrine*)

Ringdahl, B. *et al*, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 80 (*cd*)

Hocquemiller, R. *et al*, *J. Nat. Prod. (Lloydia)*, 1983, **46**, 335 ((+)-*Nordicentrine*)

Hara, H. *et al*, *Chem. Pharm. Bull.*, 1986, **34**, 1946 (*synth, pmr*)
Likhitwitayawuid, K. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1468
(-)-Nordicentrine

2,4-Dichloro-1,3,6-trihydroxy-8-methylxanthone

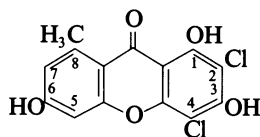
D-10059

Updated Entry replacing D-00821

2,4-Dichloro-1,3,6-trihydroxy-8-methyl-9H-xanthen-9-one.

2,4-Dichloronorlichexanthone

[22105-31-3]

C₁₄H₈Cl₂O₅ M 327.120Isol. from lichen *Lecanora straminea*. Prisms (EtOAc). Mp 285-287°.

6-Me ether: [22105-96-0]. 2,4-Dichloro-1,3-dihydroxy-6-methoxy-8-methylxanthone. **Thiophaninic acid**
Isol. from lichens incl. *L.* and *Pertusaria* spp. Yellow needles (DMSO aq.). Mp 278-279° (276°).

3,6-Di-Me ether: [22105-97-1]. 2,4-Dichloro-1-hydroxy-3,6-dimethoxy-8-methylxanthone. 2,4-Dichloro-3,6-di-O-methylnorlichexanthone

C₁₆H₁₂Cl₂O₅ M 355.173Isol. from *P.* spp. Yellow needles (DMSO aq.). Yellow needles (EtOH). Mp 278-279° (276°), Mp 184-186°.

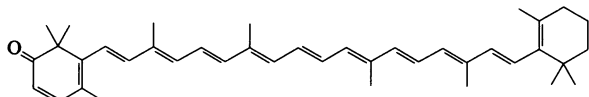
Tri-Me ether: [22105-98-2]. 2,4-Dichloro-1,3,6-trimethoxy-8-methylxanthone

C₁₇H₁₄Cl₂O₅ M 369.200Needles (CHCl₃/MeOH). Mp 193-194°.Santesson, J., *Ark. Kemi*, 1969, **30**, 427, 461 (*isol*)Huneck, S. *et al*, *Z. Naturforsch., B*, 1969, **24**, 750 (*isol*)Elix, J.A. *et al*, *Aust. J. Chem.*, 1978, **31**, 145 (*isol*)Huneck, S. *et al*, *Tetrahedron*, 1978, **34**, 2491 (*isol, synth, cmr*)

3,4-Didehydro-β,β-caroten-2-one

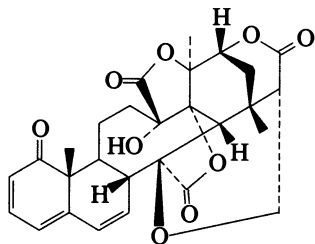
D-10060

[130177-40-1]

C₄₀H₅₂O M 548.850Constit. of the eggs of the stick insect *Anisomorpha buprestoides* and *Neophirasea japonica*.Matsuno, T. *et al*, *Comp. Biochem. Physiol., B: Comp. Biochem.*, 1990, **95**, 583 (*isol*)Davidson, B.S. *et al*, *Tetrahedron Lett.*, 1991, **32**, 5651 (*isol, pmr*)

4,7-Didehydroneophysalin B

D-10061

C₂₈H₂₈O₉ M 508.524

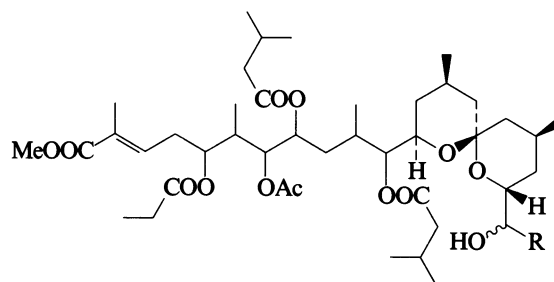
Constit. of *Physalis alkekengi*. Amorph. solid. [α]_D +21°
(c, 0.26 in MeOH).

Sunayama, R. *et al*, *Phytochemistry*, 1993, **34**, 529 (*isol, pmr, cmr*)

Didemnaketal A

D-10062

[135257-49-7]

R = —COCH₃C₄₄H₇₂O₁₄ M 825.044Isol. from the ascidian *Didemnum* sp. HIV-1 protease inhibitor. Oil. [α]_D -11.0° (c, 0.8 in CHCl₃).Potts, B.C.M. *et al*, *J. Am. Chem. Soc.*, 1991, **113**, 6321 (*isol, struct*)

Didemnaketal B

D-10063

[135257-48-6]

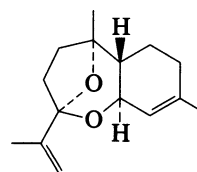
As Didemnaketal A, D-10062 with

R = —C(CH₃)=CHCH₂CH₂CH(CH₃)CH₂COOMeC₅₂H₈₆O₁₅ M 951.242Isol. from the ascidian *Didemnum* sp. HIV-1 protease inhibitor. Oil.Potts, B.C.M. *et al*, *J. Am. Chem. Soc.*, 1991, **113**, 6321 (*isol, struct*)

1,10:7,10-Diepoxy-2,11-bisaboladiene

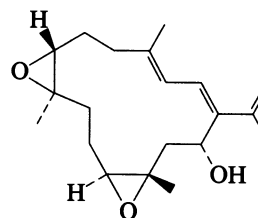
D-10064

[149067-97-0]

C₁₅H₂₂O₂ M 234.338Constit. of *Artemisia sieberi*. Oil.Weyerstahl, P. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 111 (*isol, pmr, cmr*)

7,8:11,12-Diepoxy-1,3,15-cembratrien-14-ol

D-10065

C₂₀H₃₀O₃ M 318.455

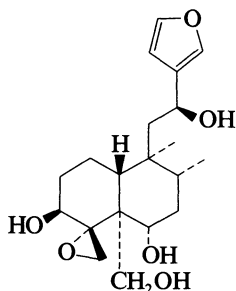
(1E,3E,7R*,8R*,11S*,12S*,14R*)-form

Ac: [149182-65-0].

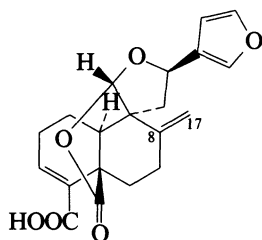
 $C_{22}H_{32}O_4$ M 360.492Constit. of *Sarcophyton tortuosum*. Oil. $[\alpha]_D^{25} + 110^\circ$ (c, 1 in CCl_4).Leone, P.A. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 521 (isol, pmr, cmr)8,17-Dihydro, Me ester: [76475-18-8]. *Dihydrocroverin* $C_{21}H_{24}O_6$ M 372.417Isol. from *C. verreauxii*. Mp 205-206°. $[\alpha]_D^{25} - 66^\circ$ ($CHCl_3$).Fujita, E. et al, *J. Chem. Soc., Chem. Commun.*, 1980, 920 (isol, struct)**4,18:15,16-Diepoxy-13(16),14-clerodadiene-3,6,12,19-tetrol**

D-10066

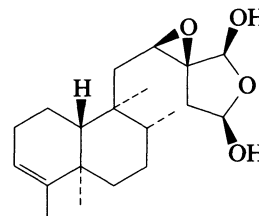
Updated Entry replacing D-00944

 $C_{20}H_{30}O_6$ M 366.453**(ent-3 α ,4 β ,6 β ,12R)-form**6-Ac: [103827-25-4]. *Teupyryn B* $C_{22}H_{32}O_7$ M 408.491Constit. of *Teucrium pyrenaicum*. Cryst. (EtOAc/hexane). Mp 213-215°. $[\alpha]_D^{26} + 7.1^\circ$ (c, 0.126 in MeOH).12,19-Di-Ac: *Teugracilin C* $C_{24}H_{34}O_8$ M 450.528Constit. of *T. gracile*. Amorph. solid. Mp 55-65°. $[\alpha]_D^{19} + 1.7^\circ$ (c, 0.241 in $CHCl_3$).**(ent-3 β ,4 β ,6 β ,12 ξ)-form**3,19-Di-Ac: *Teucrolin B* $C_{24}H_{34}O_8$ M 450.528Constit. of *T. olivarianum*. Needles (EtOAc/hexane). Mp 173-174°. $[\alpha]_D - 48.5^\circ$ (c, 0.07 in C_6H_6).12-Ketone, 3,6,19-tri-Ac: *Teucrolin C* $C_{26}H_{34}O_9$ M 490.549Constit. of *T. olivarianum*. Plates (EtOAc/hexane). Mp 152-153°. $[\alpha]_D - 72.8^\circ$ (c, 0.11 in C_6H_6).Fernández, P. et al, *Phytochemistry*, 1986, **25**, 1405.Bruno, M. et al, *Phytochemistry*, 1991, **30**, 3693 (*Teugracilin C*)Al-Yahya, M.A. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 830 (*Teucrolins*)Jiménez-Barbero, J., *Tetrahedron*, 1993, **49**, 6921 (struct)**12,20:15,16-Diepoxy-3,8(17),13(16),14-clerodatetraen-19,20-olid-18-oic acid**

D-10067

 $C_{20}H_{20}O_6$ M 356.374**(ent-12S,20R)-form**Me ester: [76475-17-7]. *Croverin* $C_{21}H_{22}O_6$ M 370.401Isol. from *Croton verreauxii*. Mp 151-153°. $[\alpha]_D^{25} - 26^\circ$ ($CHCl_3$).**12,13:15,16-Diepoxy-3-clerodene-15,16-diol**

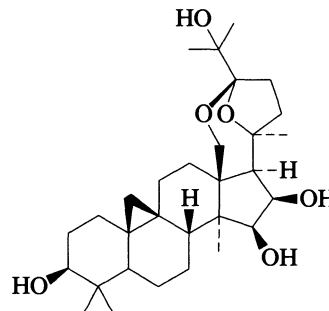
D-10068

 $C_{20}H_{32}O_4$ M 336.470**(ent-12S,13R,15S,16R)-form**

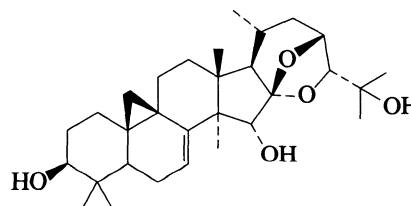
Di-Ac: [150065-53-5].

 $C_{24}H_{36}O_6$ M 420.545Constit. of *Linaria saxatilis*. Oil. $[\alpha]_D^{23} - 27.8^\circ$ (c, 0.9 in $CHCl_3$).San Feliciano, A. et al, *Phytochemistry*, 1993, **33**, 631 (isol, pmr, cmr)**18,24:20,24-Diepoxy-cycloartane-3,15,16,25-tetrol**

D-10069

 $C_{30}H_{48}O_6$ M 504.706**(3 β ,15 β ,16 β ,20S,24R)-form**Cryst. ($CHCl_3$). Mp 159-160°.3-O- β -D-Xylopyranoside, 15,16-di-Ac: *Beesioside I* $C_{39}H_{60}O_{12}$ M 720.896Constit. of *Beesia calthaeifolia*. Cryst. ($CHCl_3$ /MeOH). Mp 264-266°. $[\alpha]_D - 10.7^\circ$ (c, 0.52 in $CHCl_3$ /MeOH).Sakurai, N. et al, *Chem. Pharm. Bull.*, 1993, **41**, 272 (isol, pmr, cmr)**16,23:16,24-Diepoxy-cycloart-7-ene-3,15,25-triol**

D-10070

 $C_{30}H_{46}O_5$ M 486.690

(3β,15α,23R,24R)-form [150972-71-7]

Constit. of *Cimicifuga heracleifolia*. Needles. Mp 222-223°. $[\alpha]_D^{25} + 6.36^\circ$ (c, 0.47 in CHCl₃).

3-O-β-D-Xylopyranoside: [150972-77-3].

C₃₅H₅₄O₉ M 618.806

Constit. of *C. heracleifolia*. Powder. $[\alpha]_D^{25} - 9.6^\circ$ (c, 0.35 in CHCl₃/MeOH).

3-O-(3-Acetyl-β-D-xylopyranoside): [150972-76-2].

C₃₇H₅₆O₁₀ M 660.843

Constit. of *C. heracleifolia*. Powder. $[\alpha]_D^{25} - 13.2^\circ$ (c, 0.53 in CHCl₃/MeOH).

3-O-(2,4-Diacetyl-β-D-xylopyranoside): [150972-75-1].

C₃₉H₅₈O₁₁ M 702.881

Constit. of *C. heracleifolia*. Powder. $[\alpha]_D^{25} - 15.5^\circ$ (c, 0.53 in CHCl₃).

3-Ketone: [150972-74-0]. **16,23:16,24-Diepoxy-15,25-dihydroxycycloart-7-en-3-one**

C₃₀H₄₄O₅ M 484.675

Constit. of *C. heracleifolia*. Cryst. Mp 225-226°. $[\alpha]_D^{25} - 12.4^\circ$ (c, 0.37 in CHCl₃).

(3β,15α,23R,24S)-form [150972-72-8] **7,8-Didehydrocimigenol**

Constit. of *C. heracleifolia*. Powder.

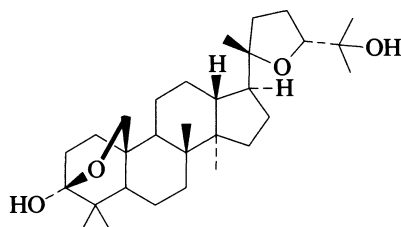
25-Ac: [150972-73-9].

C₃₂H₄₈O₆ M 528.728

Constit. of *C. heracleifolia*. Powder.

Li, J.X. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 832 (*isol, pmr, cmr, cryst struct*)

3,19:20,24-Diepoxydammarane-3,25-diol D-10071



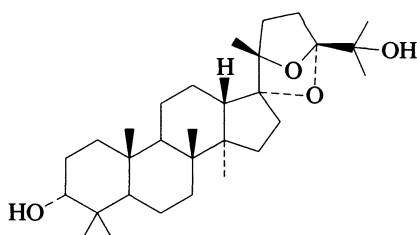
C₃₀H₅₀O₄ M 456.707

(3αOH,20S,24R)-form

Constit. of *Cleome africana*. Cryst. (EtOH). Mp 100°.

Tsichritzis, F. *et al*, *Phytochemistry*, 1993, **33**, 423 (*isol, pmr, cmr*)

17,24:20,24-Diepoxydammarane-3,25-diol D-10072



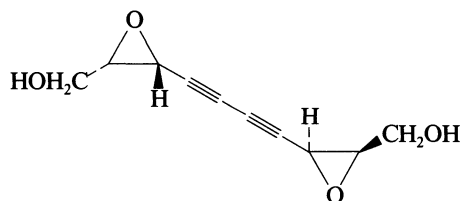
C₃₀H₅₀O₄ M 474.723

(3α,17α,20S,24S)-form

Constit. of *Cleome africana*. Cryst. (EtOH). Mp 251°.

Tsichritzis, F. *et al*, *Phytochemistry*, 1993, **33**, 423 (*isol, pmr, cmr*)

2,3,8,9-Diepoxy-4,6-decadiyne-1,10-diol D-10073



C₁₀H₁₀O₄ M 194.187

(2R,3R,8R,9R)-form [147921-90-2] **Repandiol**

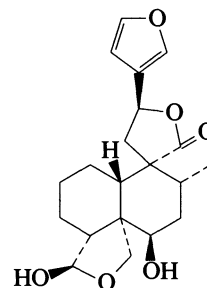
Constit. of the mushrooms *Hydnum repandum* and *H. repandum* var. *album*. Cytotoxic. Leaflets (MeOH). Mp 168-169°. $[\alpha]_D^{19} + 40.0^\circ$ (c, 0.12 in MeOH).

Di-Ac: Amorph. powder. $[\alpha]_D^{26} + 63.4^\circ$ (c, 0.12 in CHCl₃).

Takahashi, A. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 3181 (*isol, pmr, cmr, synth, struct*)

15,16:18,19-Diepoxy-6,18-dihydroxy-13(16),14-clerodadien-20,12-olide D-10074

Updated Entry replacing D-00961



C₂₀H₂₆O₆ M 362.422

(ent-4αH,6α,12βH,18α)-form [125137-21-5] **Teukotschyn**

Constit. of *Teucrium kotschyannum*. Amorph. solid. Mp 95-105°. $[\alpha]_D^{22} - 5.7^\circ$ (c, 0.317 in CHCl₃).

6-Ketone: [87376-65-6]. **ent-15,16:18,19-Diepoxy-18-hydroxy-6-oxo-13(16),14-clerodadien-20,12-olide.**

Teuscorodin

Isol. from *T. scorodonia*. Cryst. (Me₂CO/hexane). Mp 152-153°. $[\alpha]_D^{22} + 2.9^\circ$ (c, 0.24 in CHCl₃).

18-O-β-D-Glucopyranoside, 16-Ac: Teulamioside

C₂₈H₃₈O₁₂ M 566.601

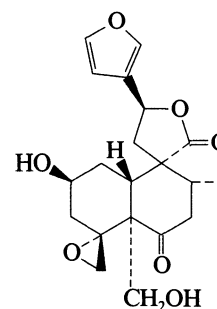
Constit. of *T. lamifolium*. Amorph. solid. Mp 125-135°. $[\alpha]_D^{18} - 92.8^\circ$ (c, 0.626 in CHCl₃).

Marco, J.L. *et al*, *Phytochemistry*, 1983, **22**, 727 (*Teuscorodin*)

Simoes, F. *et al*, *Phytochemistry*, 1989, **28**, 2763 (*Teukotschyn*)

Malakov, P.Y. *et al*, *Phytochemistry*, 1993, **34**, 1095 (*Teulamioside*)

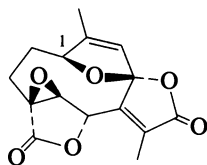
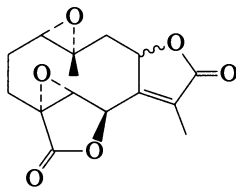
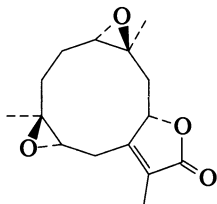
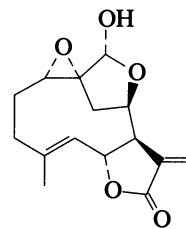
4,18:15,16-Diepoxy-2,19-dihydroxy-6-oxo-13(16),14-clerodadien-20,12-olide D-10075



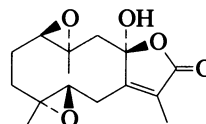
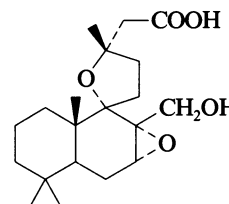
C₂₀H₂₄O₇ M 376.405

(ent-2 α ,4 β ,12 β H)-form19-Ac: [146428-63-9]. *Teuassin*C₂₂H₂₆O₈ M 418.443Constit. of *Teucrium massiliense*. Amorph. solid. [α]_D²⁰
+42.5° (c, 0.047 in CHCl₃).Bruno, M. *et al*, *Phytochemistry*, 1992, 31, 4366 (*isol*, *pmr*)**1,8:4,5-Diepoxy-7(11),9-germacradiene-12,8:14,6-diolide** **D-10076**

Updated Entry replacing D-00988

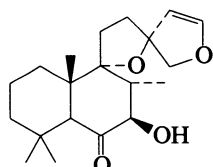
(1S,4 β ,5 β ,6 α ,8 α)-formC₁₅H₁₄O₆ M 290.272(1S,4 β ,5 β ,6 α ,8 α)-form [88653-68-3] *Neoliacine*Constit. of *Neolitsea aciculata*. Cryst. Mp 283° dec. [α]_D
+7.3° (c, 5.4 in Py).(1R,4 β ,5 β ,6 α ,8 β)-form*Pseudoneolicine*Constit. of *N. villosa*. Cryst. (CHCl₃). Mp 272-274°. [α]_D
-6.9° (c, 0.3 in Me₂CO).Nozaki, H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1983, 1107 (*isol*,
cryst struct)Li, W.-S. *et al*, *Phytochemistry*, 1993, 32, 1503 (*isol*, *pmr*, *cmr*)**1,10:4,5-Diepoxy-7(11)-germacrene-12,8:15,6-diolide** **D-10077**C₁₅H₁₆O₆ M 292.288(1 α ,4 α ,5 α ,6 β ,8 ξ ,10 α)-form [145940-31-4] *Acutotrine*Constit. of *Neolitsea acutotrinervia*. Plates
(Me₂CO/hexane). Mp 240-242°.Li, W.-S., *J. Nat. Prod. (Lloydia)*, 1992, 55, 1614 (*isol*, *pmr*, *cmr*)**1,10:4,5-Diepoxy-7(11)-germacren-12,8-olide** **D-10078**C₁₅H₂₀O₄ M 264.321(1 α ,4 β ,5 α ,8 α ,10 β)-form*Litseacassifolide*Constit. of *Litsea cassiaefolia*. Cryst. (Et₂O). Mp 203-
205°. [α]_D -137° (c, 0.3 in CHCl₃).Hakim, E.H. *et al*, *Aust. J. Chem.*, 1993, 46, 1355 (*isol*, *pmr*, *cmr*,
cryst struct)**1,10:8,14-Diepoxy-14-hydroxy-4,11(13)-germacradien-12,6-olide** **D-10079**C₁₅H₁₈O₅ M 278.304(1 α ,4E,6 α ,8 β ,10 α ,14 α)-form [146564-55-8]Constit. of *Blainvillea gayana*. Gum.Kijjoo, A. *et al*, *Phytochemistry*, 1993, 32, 383 (*isol*, *pmr*, *cmr*)**1,10:4,5-Diepoxy-8-hydroxy-7(11)-germacren-12,8-olide** **D-10080**

Updated Entry replacing D-01008

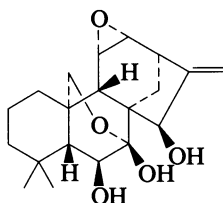
(1 β ,4 α ,5 β ,8 α OH,10 β)-formC₁₅H₂₀O₅ M 280.320(1 β ,4 α ,5 β ,8 α OH,10 α)-form8-(2-Methylpropyl): 1 β ,10 α :4 α ,5 β -Diepoxy-8 α -
*isobutoxyglechomanolide*C₁₉H₂₈O₅ M 336.427Constit. of *Smyrniium perfoliatum*. Amorph.(1 β ,4 α ,5 β ,8 β OH,10 α)-form8-(2-Methylpropyl): 1 β ,10 α :4 α ,5 β -Diepoxy-8 β -
*isobutoxyglechomanolide*C₁₉H₂₈O₅ M 336.427From *S. perfoliatum*. Cryst. Mp 155°.(1 α ,4 α ,5 α ,6 β ,8 ξ ,10 α)-form*Villosine*Constit. of *Neolitsea villosa*. Needles (CHCl₃). Mp 224-
226°.Gören, N. *et al*, *Phytochemistry*, 1987, 26, 2585.Li, W.-S. *et al*, *Phytochemistry*, 1993, 32, 1503 (*Villosine*)**7,8:9,13-Diepoxy-17-hydroxy-15-labdanoic acid** **D-10081**C₂₀H₃₂O₅ M 352.470(7 α ,8 α ,9 α ,13S)-formConstit. of *Chrysoma pauciflosculosa*. Gum.Menelaou, M.A. *et al*, *Phytochemistry*, 1993, 34, 97 (*isol*, *pmr*,
cmr)

9,13:15,16-Diepoxy-7-hydroxy-14-labden-6-one

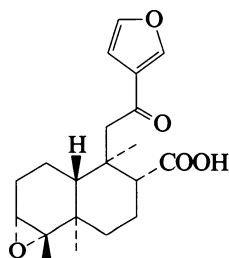
D-10082

C₂₀H₃₀O₄ M 334.455**(7β,8βH,9α,13R)-form** [151178-05-1] **Preleoheterin**Constit. of *Leonurus heterophyllus*. Syrup. [α]_D²⁵ – 15.99° (c, 0.5 in EtOH).Hon, P.M. *et al*, *Phytochemistry*, 1993, **33**, 639 (*isol, pmr, cmr*)**7,20:11,12-Diepoxy-16-kaurene-6,7,15-triol**

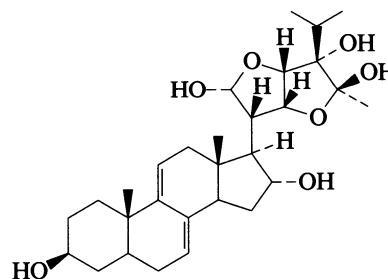
D-10083

C₂₀H₂₈O₅ M 348.438**(ent-6α,11β,12β,15α)-form****Wikstroemioidin A**Constit. of *Isodon wikstroemioides*. Needles (MeOH). Mp 196-197°. [α]_D²⁵ – 204.3° (c, 0.23 in Py).Shun-Hua, W. *et al*, *Phytochemistry*, 1993, **34**, 1099 (*isol, pmr, cmr*)**3,4:15,16-Diepoxy-12-oxo-13(16),14-clerodadien-17-oic acid**

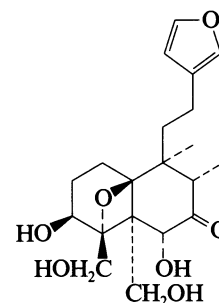
D-10084

C₂₀H₂₆O₅ M 346.422**(ent-3β,4β)-form** [143183-67-9] **Epoxychiromodine**Constit. of *Croton megalocarpus*. Cryst. Mp 166-168°.[α]_D²¹ – 31° (c, 0.8 in CHCl₃). Epoxychiromodine is strictly speaking a misnomer.Addae-Mensah, I. *et al*, *Phytochemistry*, 1992, **31**, 2055 (*isol, pmr, cmr*)**21,23:22,28-Diepoxystigmasta-7,9(11)-diene-3,16,21,24,28-pentol**

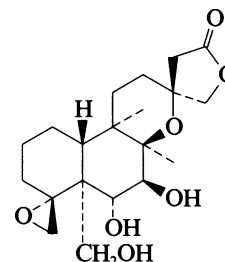
D-10085

C₂₉H₄₄O₇ M 504.662**(3β,16α,21R,22R,23R,24R,28S)-form**28-Me ether, 3-O-β-D-glucopyranoside: **Vernonioside B₂**C₃₆H₅₆O₁₂ M 680.831Constit. of *Vernonia amygdalina*. Cryst. (MeOH). Mp 260-261°. [α]_D²⁴ + 65.3° (c, 0.453 in MeOH).Jisaka, M. *et al*, *Phytochemistry*, 1993, **34**, 409 (*isol, pmr, cmr*)**4,10:15,16-Diepoxy-3,6,18,19-tetrahydroxy-13(16),14-clerodadien-7-one**

D-10086

C₂₀H₂₈O₇ M 380.437**(ent-3α,4β,6β,10α)-form**19-Ac: **Teucrolin E**C₂₂H₃₀O₈ M 422.474Constit. of *Teucrium olivarianum*. Plates. Mp 78-79°.[α]_D – 35.4° (c, 0.05 in C₆H₆).Al-Yahya, M.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 830 (*isol, pmr, cmr*)**4,18:8,13-Diepoxy-6,7,19-trihydroxy-15,16-clerodanolide**

D-10087

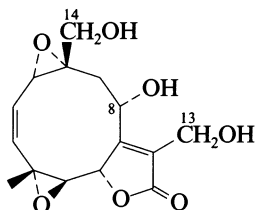
C₂₀H₃₀O₇ M 382.453**(ent-4β,6β,7α,8α,13R)-form**6-(2S-Methylbutanoyl), 7,19-di-Ac: **Scutalpin A**C₂₉H₄₂O₁₀ M 550.645

Constit. of *Scutellaria alpina*. Cryst. (MeOH). Mp 218–220°. $[\alpha]_D^{24} -24.7^\circ$ (c, 0.382 in CHCl_3).

Bozov, P.I. et al, *Phytochemistry*, 1993, **34**, 453 (isol, pmr, cmr, cryst struct)

1,10:4,5-Diepoxy-8,13,14-trihydroxy-2,7(11)-germacradien-12,6-olide

D-10088



$\text{C}_{15}\text{H}_{18}\text{O}_7$ M 310.303

(1 α ,2E,4 α ,5 β ,6 α ,8 α ,10 α)-form

8-(2-Methylpropanoyl), 13-Ac:

$\text{C}_{21}\text{H}_{26}\text{O}_9$ M 422.431

Constit. of *V. galamensis*.

8-(2-Methylpropanoyl), 13,14-di-Ac:

$\text{C}_{23}\text{H}_{28}\text{O}_{10}$ M 464.468

Constit. of *V. galamensis*.

8-(2-Methylpropenyl), 13-Ac: [94450-25-6].

$\text{C}_{21}\text{H}_{24}\text{O}_9$ M 420.415

Constit. of *Vernonia adoensis*. Oil.

8-(2-Methylbutanoyl), 13-Ac: [94450-29-0].

$\text{C}_{22}\text{H}_{28}\text{O}_9$ M 436.458

Constit. of *V. adoensis*. Oil.

8-(3-Methyl-2-butenoyl), 13-Ac: **Prevernocistifolide-8-O-senecioate**

$\text{C}_{22}\text{H}_{26}\text{O}_9$ M 434.442

Constit. of *V. galamensis*.

8-(3-Methyl-2-butenoyl), 13,14-di-Ac:

$\text{C}_{24}\text{H}_{28}\text{O}_{10}$ M 476.479

Constit. of *V. galamensis*.

2 α ,3 α -Epoxide, 8-(3-methyl-2-butenoyl), 13-Ac:

$\text{C}_{22}\text{H}_{26}\text{O}_{10}$ M 450.441

Constit. of *V. galamensis*.

2,3-Dihydro, 8-(2,3-epoxy-2-methylpropanoyl), 13-Ac, 14-deoxy: **17,18-Epoxyvernatonolide**

$\text{C}_{21}\text{H}_{26}\text{O}_9$ M 422.431

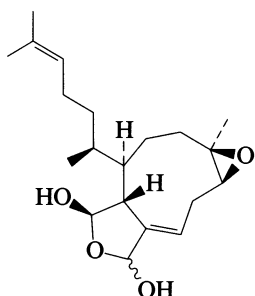
Constit. of *V. adoensis*. Oil.

Bohlmann, F. et al, *Phytochemistry*, 1984, **23**, 1795 (isol, pmr)

Perdue, R.E. et al, *Phytochemistry*, 1993, **34**, 1075 (isol, pmr, cmr)

6,7:18,19-Diepoxy-1(9),13-xenicadiene-18,19-diol

D-10089



$\text{C}_{20}\text{H}_{32}\text{O}_4$ M 336.470

Di-Me ether: **Dictyoepoxide**

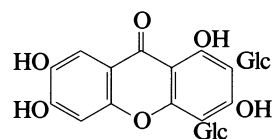
$\text{C}_{22}\text{H}_{36}\text{O}_4$ M 364.524

Constit. of a *Dictyota* sp. Oil.

Patil, A.D. et al, *Phytochemistry*, 1993, **33**, 1061 (isol, pmr, cmr)

2,4-Diglucosyl-1,3,6,7-tetrahydroxyxanthone

D-10090



$\text{C}_{25}\text{H}_{28}\text{O}_{16}$ M 584.487

3,6,7-Tri-Me ether: [140388-69-8]. 2,4-Diglucosyl-1-hydroxy-3,6,7-trimethoxyxanthone

$\text{C}_{28}\text{H}_{34}\text{O}_{16}$ M 626.567

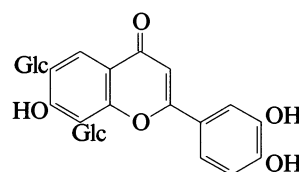
Constit. of the aerial parts of *Asplenium adiatum-nigrum*.

Imperato, F., *Phytochemistry*, 1991, **30**, 3839.

6,8-Diglucosyl-3',4',7-trihydroxyflavone

D-10091

2-(3,4-Dihydroxyphenyl)-6,8-di- β -D-glucopyranosyl-7-hydroxy-4H-1-benzopyran-4-one



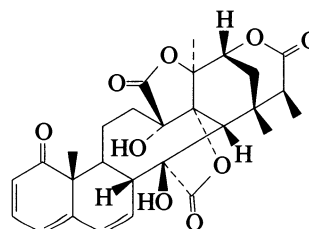
$\text{C}_{27}\text{H}_{30}\text{O}_{15}$ M 594.525

Constit. of the leaves of *Sophora prostrata*. Tentative identification.

Markham, K.R. et al, *Phytochemistry*, 1973, **12**, 1091.

25,27-Dihydro-4,7-didehydro-7-deoxyphysalin A

D-10092



$\text{C}_{28}\text{H}_{30}\text{O}_9$ M 510.540

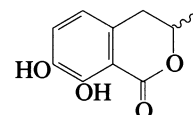
Constit. of *Physalis alkekengi*. Amorph. solid. $[\alpha]_D -67^\circ$ (c, 0.24 in MeOH).

Sunayama, R. et al, *Phytochemistry*, 1993, **34**, 529 (isol, pmr, cmr)

3,4-Dihydro-7,8-dihydroxy-3-methyl-1H-2-benzopyran-1-one, 9CI

D-10093

3,4-Dihydro-7,8-dihydroxy-3-methylisocoumarin [118853-80-8]



$\text{C}_{10}\text{H}_{10}\text{O}_4$ M 194.187

Constit. of *Azadirachta indica*. Cryst (Et₂O/hexane). Mp 212°.

Di-Me ether: [118918-23-3]. 3,4-Dihydro-7,8-dimethoxy-3-methylisocoumarin. **Margocetin**

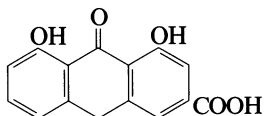
$\text{C}_{12}\text{H}_{14}\text{O}_4$ M 222.240

Constit. of *A.indica*. Plates (CH₂Cl₂) or cryst. (Et₂O/hexane). Mp 85°, Mp 250-251°. Large discrepancy in reported Mp's.

Siddiqui, S. *et al*, *Planta Med.*, 1988, **54**, 457 (*isol*)
Bhide, B.H. *et al*, *Indian J. Chem., Sect. B*, 1992, **31**, 116 (*synth*)

9,10-Dihydro-4,5-dihydroxy-10-oxo-2-anthracenecarboxylic acid **D-10094**

9,10-Dihydro-4,5-dihydroxy-10-oxo-2-anthroic acid, 8CI.
Rheinanthrone
[480-09-1]



C₁₅H₁₀O₅ M 270.241
Prod. from *Cassia* spp. and *Rheum* spp. Purgative agent.
Mp 250-280° dec.

O-Glucoside: [54003-18-8].

C₂₁H₂₀O₁₀ M 432.383
Constit. of *C. angustifolia*.

O-Diglucoside: [57077-57-3].

C₂₇H₃₀O₁₅ M 594.525
Constit. of *C. angustifolia*.

[30201-14-0, 57077-55-1, 117639-10-8]

Lemli, J. *et al*, *Phytochemistry*, 1975, **14**, 1397 (*glucoside*)
Evans, F.J. *et al*, *Biomed. Mass Spectrom.*, 1979, **6**, 374 (*ms*)
De Witte, P. *et al*, *Pharmacology*, suppl. 1, 1988, **36**, 152 (*metab*)

2,5-Dihydrofuran, 9CI **D-10095**

[1708-29-8]

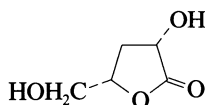


C₄H₆O M 70.091
Constit. of the leaves of *Ledum palustre*. Liq. with sharp disagreeable odour. Bp 66.5-67.5°. Forms azeotrope, Bp 64-5° containing 6.1% H₂O.

Brace, N.O. *et al*, *J. Am. Chem. Soc.*, 1955, **77**, 4157 (*synth*)
Reppe, W. *et al*, *Justus Liebigs Ann. Chem.*, 1955, **596**, 80 (*synth*)
Lozoc'h, R. *et al*, *J. Magn. Reson.*, 1973, **12**, 244 (*pmr*)
Fortunato, B. *et al*, *Gazz. Chim. Ital.*, 1976, **106**, 799 (*ir*)
Terlouw, J.K. *et al*, *Org. Mass Spectrom.*, 1979, **14**, 387 (*ms*)
Kintzinger, J.P. *et al*, *Tetrahedron*, 1980, **36**, 3431 (*nmr*)
Ylipahkala, T.M. *et al*, *Chromatographia*, 1992, **34**, 159 (*isol*)

4,5-Dihydro-3-hydroxy-5-(hydroxymethyl)-2(3H)-furanone **D-10096**

Updated Entry replacing D-01251
3-Deoxypentonic acid γ-lactone, 9CI. *2-Hydroxy-4-hydroxymethyl-4-butanolide*



C₅H₈O₄ M 132.116
(*3S,5S*)-form [19473-20-2]

D-threo-form

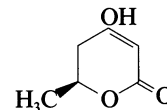
Isol. from human and rat blood serum. Shows appetite-stimulant props. Oil. [α]_D²⁰ +23.2° (c, 3.61 in MeOH).
Other stereoisomers also prepd.

[19473-19-9]

Uchikawa, O. *et al*, *Bull. Chem. Soc. Jpn.*, 1988, **61**, 2025 (*synth, ir, pmr, cmr, bibl*)
Matsumoto, K. *et al*, *Heterocycles*, 1992, **34**, 363 (*synth*)

5,6-Dihydro-4-hydroxy-6-methyl-2H-pyran-2-one, 9CI **D-10097**

[33177-29-6]



C₆H₈O₃ M 128.127

(*S*)-form

Me ether: *5,6-Dihydro-4-methoxy-6-methyl-2H-pyran-2-one*

C₇H₁₀O₃ M 142.154
Mp 59-60°. [α]_D¹⁷ +256° (c, 0.5 in MeOH).

O-β-D-Glucopyranoside: [125445-59-2]. *Gerberin*

C₁₂H₁₈O₈ M 290.269
Constit. of *Gerbera jamesonii hybrida*. Amorph. powder.
[α]_D¹⁹ -11.2° (c, 1.2 in MeOH).

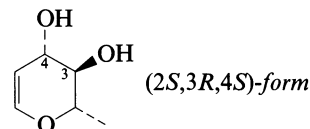
(±)-form [74259-30-6]

Cryst. Mp 123-125° (121-122°).

Izawa, T. *et al*, *Chem. Lett.*, 1975, 161 (*synth*)
Svensden, A. *et al*, *J. Org. Chem.*, 1975, **40**, 1927 (*synth*)
Nedjar, B. *et al*, *J. Heterocycl. Chem.*, 1978, **15**, 1153 (*synth*)
Haeusler, J., *Monatsh. Chem.*, 1982, **113**, 1213 (*synth*)
Nagumo, S. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2621 (*Gerberin*)

3,4-Dihydro-2-methyl-2H-pyran-3,4-diol **D-10098**

3,4-Dihydro-3,4-dihydroxy-2-methyl-2H-pyran



(*2S,3R,4S*)-form

C₆H₁₀O₃ M 130.143

(*2S,3R,4S*)-form

4-O-β-D-Glucopyranoside, 3-Ac: [81793-76-2]. *Sapopyroside*

C₁₄H₂₂O₉ M 334.322
Isol. from *Saponaria officinalis* and *Dianthus superbus*.
Prisms or needles (EtOH/EtOAc). Mp 179°. [α]_D -64°
(c, 1.0 in H₂O).

(*2S,3S,4S*)-form

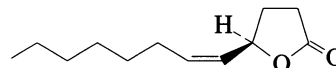
4-O-β-D-Glucopyranoside, 3-Ac: [94323-77-0]. *Barbapoyroside*

C₁₄H₂₂O₉ M 334.322
Isol. from *D. barbatus* and *D. deltoides*. Prisms or needles. Mp 215°. [α]_D -24° (c, 1.0 in H₂O).

Shimizu, M. *et al*, *Phytochemistry*, 1982, **21**, 245.
Plouvier, G. *et al*, *Phytochemistry*, 1986, **25**, 546.

Dihydro-5-(1-octenyl)-2(3H)-furanone **D-10099**

5-Dodecen-4-olide



C₁₂H₂₀O₂ M 196.289

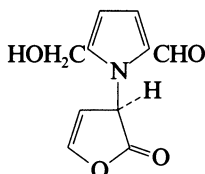
(*R,Z*)-form [139477-52-4]

Isol. from the beetle *Anomala cuprea*. Sex pheromone.
Bp_{0.2} 115°. [α]_D²⁴ -80.9° (c, 0.99 in CHCl₃), [α]_D²⁴ -61.8°
(c, 1 in hexane).

[139477-53-5]

Leal, W.S., *Naturwissenschaften*, 1991, **78**, 521 (*isol, struct*)
 Fukusaki, E. *et al*, *Biosci., Biotechnol., Biochem.*, 1992, **56**, 1160
 (*synth*)

1-(2,3-Dihydro-2-oxo-3-furanyl)-5-(hydroxymethyl)-1H-pyrrole-2-carboxaldehyde, 9CI **D-10100**
 [112663-86-2]

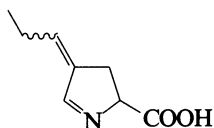


$C_{10}H_9NO_4$ M 207.185

Constit. of the roots of *Pisum satum* seedlings. Cell cycle regulator.

Lynn, D.G. *et al*, *J. Am. Chem. Soc.*, 1987, **109**, 5858 (*isol, props*)
 Evans, L.S. *et al*, *Phytochemistry*, 1987, **26**, 2891 (*isol, props*)

3,4-Dihydro-4-propylidene-2H-pyrrole-2-carboxylic acid, 9CI **D-10101**
 3-Propylidene- Δ^1 -pyrroline-5-carboxylic acid. *LBI*
 [146790-55-8]

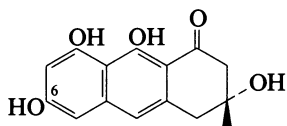


$C_8H_{11}NO_2$ M 153.180

Prod. by *Streptomyces lincolnensis*. Biosynth. precursor of Lincomycin, L-00590.

Kuo, M.S. *et al*, *J. Antibiot.*, 1992, **45**, 1773.

3,4-Dihydro-3,6,8,9-tetrahydroxy-3-methyl-1(2H)-anthracenone **D-10102**
 Updated Entry replacing D-01420
Atrochryson
 [124903-85-1]



(*R*)-form

$C_{15}H_{14}O_5$ M 274.273

Constit. of *Cortinarius atrovirens* and *C. odoratus*. Green-yellow needles (MeOH). Mp 234-238°.

(*R*)-form

Constit. of *Araliorhannus vaginata*. Yellow pigment. Mp 182-183°.

(*S*)-form

6-*Me ether*: [61419-07-6]. 3,4-Dihydro-3,8,9-trihydroxy-6-methoxy-3-methyl-1(2H)-anthracenone. *Torosachryson*
 $C_{16}H_{16}O_5$ M 288.299
 Isol. from seeds of *Cassia torosa* and *C. singueana*. Citrine needles (MeOH). Mp 191-194°. $[\alpha]_D^{34} + 7.2^\circ$ (c, 1.7 in dioxan).

6-*Me ether*, 8-O- β -*D*-gentiobioside: [94356-13-5].

$C_{28}H_{36}O_{15}$ M 612.583

Constit. of seeds of *C. torosa*. Yellow powder (MeOH). Mp 166-168°. $[\alpha]_D^{22} - 43.6^\circ$ (c, 0.25 in MeOH).

6-O-(3,7-Dimethyl-2,6-octadienyl): [87605-72-9]. *Vismione D*
 $C_{25}H_{30}O_5$ M 410.509
 Prod. by *Psorospermum febrifugum*. Red-brown cryst. (MeOH). Mp 142-145° dec.

6-O-(3,7-Dimethyl-2,6-octadienyl), 3-Ac: *Acetylvismione D*
 $C_{27}H_{32}O_6$ M 452.546
 From *P. febrifugum*. Cryst. (hexane). Mp 65-66°. $[\alpha]_D^{22} + 6^\circ$ (c, 0.3 in $CHCl_3$).

(ξ)-form

6-O-(3-Methyl-2-butenyl), 3-Ac: [103451-03-2]. *Vismione H*
 $C_{22}H_{24}O_6$ M 384.428
 Isol. from *Vismia guineensis*. Red solid (Et₂O/hexane). Mp 110-114° dec.

[93798-36-8]

Takahashi, S. *et al*, *Phytochemistry*, 1976, **15**, 1295
 (*Torosachryson*)

Takido, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1977, **40**, 191
 (*Torosachryson*)

Botta, B. *et al*, *Phytochemistry*, 1983, **22**, 539; 1986, **25**, 766, 1217
 (*Vismiones*)

Kitanaka, S. *et al*, *Chem. Pharm. Bull.*, 1984, **32**, 3436
 (*Torosachryson gentiobioside*)

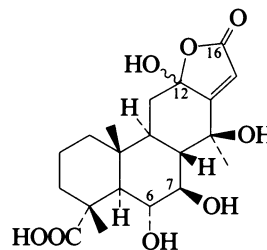
Gill, M. *et al*, *Phytochemistry*, 1989, **28**, 2647 (*isol, biosynth, pmr, cmr*)

Gill, M. *et al*, *Tetrahedron: Asymmetry*, 1990, **1**, 621.

Gill, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 372 (*biosynth*)

Mammo, W. *et al*, *Phytochemistry*, 1992, **31**, 3577 (*isol*)

12,16-Dihydro-6,7,12,14-tetrahydroxy-16-oxovinhatocic acid **D-10103**



$C_{20}H_{28}O_8$ M 396.436

(6 α ,7 β ,12 ξ ,14 β)-form

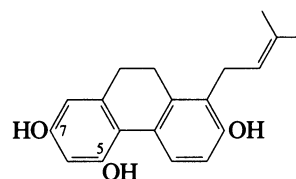
6,7-Di-Ac, Me ester: [41370-37-0].

$C_{25}H_{34}O_{10}$ M 494.538

Isol. from the fruit of *Pterodon pubescens*. Cryst. (1-propanol). Mp 184-186°.

Fascio, M. *et al*, *Phytochemistry*, 1976, **15**, 201 (*isol*)

9,10-Dihydro-2,5,7-trihydroxy-1-prenylphenanthrene **D-10104**
 9,10-Dihydro-1-(3-methyl-2-butenyl)-2,5,7-phenanthrenetriol



$C_{19}H_{20}O_3$ M 296.365

7-*Me ether*: [126192-35-6]. 9,10-Dihydro-2,5-dihydroxy-7-methoxy-1-prenylphenanthrene. *Spiranthol A*

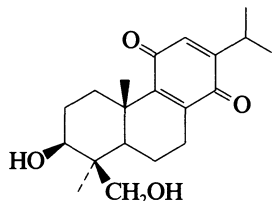
$C_{20}H_{22}O_3$ M 310.392

Constit. of *Spiranthes sinensis* var. *amoena*. Sl. coloured amorph. powder.

5,7-Di-*Me ether*: [126192-36-7]. 9,10-Dihydro-2-hydroxy-5,7-dimethoxy-1-prenylphenanthrene. *Spiranthol B*

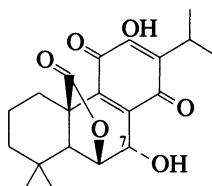
C₂₁H₂₄O₃ M 324.419Constit. of *S. sinensis* var. *amoena*. Sl. coloured amorph. solid.Tezuka, Y. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 3195.**3,19-Dihydroxy-8,12-abietadiene-11,14-dione**

D-10105

C₂₀H₂₈O₄ M 332.439**3β-form** [142937-49-3] *Triptoquinondiol*Constit. of *Tripterygium regelii*. Golden needles. Mp 183-184°. [α]_D¹⁵ -49.3° (c, 0.31 in CHCl₃).**3-Ketone:** [142937-50-6]. *19-Hydroxy-8,12-abietadiene-3,11,14-trione. Triptoquinone B. 3-Oxotriptoquinonol*C₂₀H₂₆O₄ M 330.423Constit. of *T. regelii* and *T. wilfordii*. Golden needles. Mp 135-136°. [α]_D¹⁵ +158.8° (c, 0.86 in CHCl₃), [α]_D²⁰ +336° (c, 0.21 in CHCl₃). Triptoquinone B and 3-Oxotriptoquinonol not compared.Shen, J.H. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 113 (*isol*, *pmr*, *cmr*)Takaishi, Y. *et al*, *Tetrahedron Lett.*, 1992, **33**, 7177 (*Triptoquinone B*)**7,12-Dihydroxy-8,12-abietadiene-12,6-olide**

D-10106

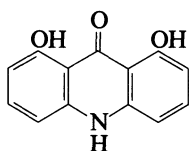
Updated Entry replacing C-00213

C₂₀H₂₄O₆ M 360.406**(6β,7α)-form****Atuntzensin A**Constit. of *Isodon grandifolia* var. *atuntzensis*. Yellow needles (Me₂CO/petrol). Mp 219-220°. [α]_D²⁶ +48.9° (c, 0.27 in Py).**7-Et ether:** [121927-69-3]. *7-Ethoxy-12-hydroxy-8,12-abietadiene-20,6-olide. Canariquinone*C₂₂H₂₈O₆ M 388.460Constit. of *Salvia canariensis*. Amorph. yellow solid.Gonzalez, A.G. *et al*, *Can. J. Chem.*, 1989, **67**, 208 (*Canariquinone*)Shun-Hua, W. *et al*, *Phytochemistry*, 1993, **34**, 1176 (*Atuntzensin A*)**1,8-Dihydroxyacridone**

D-10107

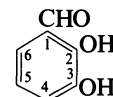
1,8-Dihydroxy-9(10H)-acridinone, 9CI

[151077-55-3]

C₁₃H₉NO₃ M 227.219Alkaloid from aerial parts of *Boronia lanceolata* (Rutaceae). Yellow needles (CHCl₃/MeOH). Mp 250°.**N-Me:** [130897-51-7]. *1,8-Dihydroxy-10-methylacridone*C₁₄H₁₁NO₃ M 241.246Alkaloid from aerial parts of *B. lanceolata* (Rutaceae). Yellow needles (CHCl₃/MeOH). Mp 235-237°.Ahsan, M. *et al*, *Phytochemistry*, 1993, **33**, 1507 (*isol*, *uv*, *ir*, *pmr*, *cmr*, *ms*, *struct*)**2,3-Dihydroxybenzaldehyde, 9CI, 8CI**

D-10108

[24677-78-9]

C₇H₆O₃ M 138.123Yellow needles. Mp 108°. Bp₁₆ 119-120°. pK_{a1} 7.73; pK_{a2} 10.91 (20°, 0.15M NaClO₄, 4% EtOH).**Phenylhydrazone:** Yellow needles (EtOH). Mp 167°.**2-Me ether:** *3-Hydroxy-2-methoxybenzaldehyde*C₈H₈O₃ M 152.149Needles (C₆H₆/hexane). Mp 113-115° (108-110°).**3-Me ether:** [148-53-8]. *2-Hydroxy-3-methoxybenzaldehyde.**o-Vanillin. 3-Formylguaiacol*C₈H₈O₃ M 152.149Yellow needles (H₂O). Mp 44-45°. Bp₁₀ 128°. pK_{a1} 7.91 (25°).

▷ CU6530000.

Di-Me ether: *2,3-Dimethoxybenzaldehyde. o-Veratraldehyde*Isol. from trunkwood of *Machaerium kuhlmannii*.Needles (EtOH, Et₂O or pet. ether). Mp 54°. Bp₇₄₅ 256°, Bp₁₂ 137°.**Di-Me ether, oxime:** [5470-95-1].C₉H₁₁NO₃ M 181.191

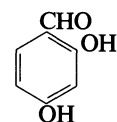
Needles (EtOH aq.). Mp 98-99°.

Pauly, H. *et al*, *Justus Liebigs Ann. Chem.*, 1911, **383**, 312 (*synth*)*U.S. Pat.*, 1 345 649, (1920); *CA*, **14**, 2644 (*synth*)Kratzl, K. *et al*, *Monatsh. Chem.*, 1960, **91**, 219.Santavy, F. *et al*, *Collect. Czech. Chem. Commun.*, 1972, **37**, 1825 (*uv*, *derivs*)Neville, G.A., *Org. Magn. Reson.*, 1972, **4**, 633 (*pmr*, *derivs*)Huneck, S., *Tetrahedron*, 1976, **32**, 109 (*synth*, *deriv*)Ollis, W.D. *et al*, *Phytochemistry*, 1978, **17**, 1383 (*isol*, *2,3-dimethoxybenzaldehyde*)Smidrkal, J., *Collect. Czech. Chem. Commun.*, 1982, **47**, 2140 (*synth*)Akashi, T. *et al*, *Chem. Pharm. Bull.*, 1986, **34**, 2024 (*deriv*)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, VF0000.**2,4-Dihydroxybenzaldehyde, 9CI**

D-10109

β-Resorcylaldehyde, 8CI

[95-01-2]

C₇H₆O₃ M 138.123

Used for photometric detn. of Fe(III). Needles

(Et₂O/ligroin). Sol. H₂O, EtOH, CHCl₃, Et₂O. Mp 135-136°, Mp 201-202°. Bp₂₂ 220-228°. pK_{a1} 7.10; pK_{a2} 9.42(20°, 0.15M NaClO₄, 4% EtOH).**Di-Ac:** [41777-08-6].C₁₁H₁₀O₅ M 222.197

Mp 69°.

Oxime: [5399-68-8]. *Resorcyldoxime*C₇H₇NO₃ M 153.137Used as 0.2-1% EtOH soln. as a metallochromic indicator for titrimetric detn. of Fe(III) (purple colour). Cryst. (H₂O). Sol. EtOH, Et₂O, H₂O. Mp 192°, Mp 198-199°.*Semicarbazone*: [3030-93-1].C₈H₉N₃O₃ M 195.177Used as 0.1% DMF or EtOH soln. for fluorimetric detn. of Sc (λ_{max} 455 nm, pH 6) and Ga (λ_{max} 425 nm, pH 2.4-2.5), Zr. Cryst. (EtOH). Sol. DMF, EtOH.*Thiosemicarbazone*:C₈H₉N₃O₂S M 211.244Used as a 1mM EtOH soln. for photometric detn. of Cu (λ_{max} 374 nm, ε 12400). Cryst. Sol. MeOH, EtOH.*Formylhydrazone*:C₈H₈N₂O₃ M 180.163Used as EtOH soln. for fluorimetric detn. of Sc and Ga. Pale yellow cryst. Sol. EtOH, AcOH; sl. sol. H₂O. Mp 200-240° dec. p*K*_{a1} 8.8; p*K*_{a2} 10.4 (20°, 50% EtOH).*2-Me ether*: [18278-34-7]. *4-Hydroxy-2-methoxybenzaldehyde*C₈H₈O₃ M 152.149Leaflets (C₆H₆). Mp 153°.*4-Me ether*: [673-22-3]. *2-Hydroxy-4-methoxybenzaldehyde*.*2-Hydroxyanisaldehyde. 4-Methoxysalicylaldehyde*C₈H₈O₃ M 152.149Mp 40-42°. p*K*_{a1} 8.89 (25°).*4-Me ether, 2-O-β-D-xylopyranosyl-(1→6)-β-D-glucopyranoside*: [140484-68-0].C₁₉H₂₆O₁₂ M 446.407Constit. of *Mondia whytei*. Incorrect MF in CA.*Di-Me ether*: [613-45-6]. *2,4-Dimethoxybenzaldehyde. 2-Methoxyanisaldehyde*C₉H₁₀O₃ M 166.176Needles (pet. ether). Mp 71°. Bp₁₀ 165°.*Di-Me ether, oxime*: [31874-34-7].C₉H₁₁NO₃ M 181.191Needles (H₂O). Mp 106°.Shoesmith, J.B. *et al*, *J. Chem. Soc.*, 1923, 2704 (*synth*)Hinkel, L.E. *et al*, *J. Chem. Soc.*, 1932, 2793; 1936, 184 (*synth*)Welcher, F.J., *Organic Analytical Reagents*, Van Nostrand, N.Y., 1947, 3, 258 (*synth, use, oxime*)Raju, N., *Nature (London)*, 1955, 175, 167 (*use*)Holzbecher, Z. *et al*, *Collect. Czech. Chem. Commun.*, 1961, 20, 1204 (*use*)Gross, H. *et al*, *Chem. Ber.*, 1963, 96, 308 (*synth*)Holzbecher, Z., *Microchem. J.*, 1965, 9, 288 (*use*)de Ropp, R.S. *et al*, *Arch. Int. Pharmacodyn. Ther.*, 1969, 181, 127 (*pharmacol*)Stankoviansky, S. *et al*, *Chem. Zvesti*, 1971, 25, 123(*thiosemicarbazone, use*)Santavy, F. *et al*, *Collect. Czech. Chem. Commun.*, 1972, 37, 1825 (*uv*)Desai, M. *et al*, *Fresenius' Z. Anal. Chem.*, 1972, 259, 367 (*detn, Fe*)Desai, M. *et al*, *Indian J. Appl. Chem.*, 1972, 35, 142 (*use*)Steinogger, E. *et al*, *Pharm. Acta Helv.*, 1972, 47, 133 (*tlc*)de Kowalewski, D.G. *et al*, *J. Mol. Struct.*, 1973, 16, 451 (*nmr*)Morishige, K., *Anal. Chim. Acta*, 1974, 73, 245 (*synth, detn, Sc*)Kiyotoshi, M. *et al*, *Bunseki Kagaku (Jpn. Anal.)*, 1975, 24, 321 (*detn, Sc*)Deguchi, M. *et al*, *Bunseki Kagaku (Jpn. Anal.)*, 1983, 32, 507; *CA*, 99, 186547p (*synth, detn, Ga*)Karl, J. *et al*, *J. Med. Chem.*, 1988, 31, 72 (*Di-Me ether*)Constit. of *Arachis hypogaea* and *Cicer arietinum* seeds.Also present in *Pterocarpus santalinus*. Used as 1% soln. in EtOH as metallochromic indicator in titrimetric detn. of Fe(III). Cryst. + 1½ H₂O (H₂O). Sol. H₂O. Mp 232-233° (anhyd.). p*K*_a 4.04.

▷ VH3708000.

Me ester: [2150-44-9].C₈H₈O₄ M 168.149Leaflets. Mp 168-170° (163-165°). p*K*_{a1} 8.71; p*K*_{a2} 10.66 (20°).*Et ester*: [4142-98-7].C₉H₁₀O₄ M 182.176

Cryst. (EtOH aq.). Mp 128-129°.

Ph ester: [133551-50-5].C₁₃H₁₀O₄ M 230.220

Cryst. (MeOH aq.). Mp 174-176°.

Amide: [3147-62-4].C₇H₇NO₃ M 153.137

Tan solid (EtOH). Mp 285-287° dec.

Di-Ac: [35354-29-1].C₁₁H₁₀O₆ M 238.196

Mp 161-162°.

Mono-Me ether: [19520-75-3]. *3-Hydroxy-5-methoxybenzoic acid*C₈H₈O₄ M 168.149Cryst. (CHCl₃/pet. ether). Mp 202°.*Mono-Me ether, Me ester*: [19520-74-2].C₉H₁₀O₄ M 182.176Needles (CHCl₃/MeOH). Mp 99°.*Dibenzyl ether*: [28917-43-3]. *3,5-Dibenzoyloxybenzoic acid*C₂₁H₁₈O₄ M 334.371

Cryst. (EtOH or EtOAc). Mp 214-216° (210-211°).

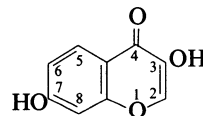
Dibenzyl ether, Me ester: [58605-10-0].C₂₂H₂₀O₄ M 348.398

Mp 65-66°.

[3147-62-4, 41696-97-3]

Suter, C.M. *et al*, *J. Am. Chem. Soc.*, 1939, 61, 232 (*synth*)Birkenshaw, J.H. *et al*, *J. Chem. Soc.*, 1942, 368 (*synth*)Curtis, R.F. *et al*, *J. Chem. Soc. C*, 1968, 1807 (*deriv*)Coward, R.F. *et al*, *J. Chromatogr.*, 1969, 45, 311 (*glc*)Scott, K.N., *J. Magn. Reson.*, 1970, 2, 361 (*pmr*)Desai, M.N. *et al*, *Mikrochim. Acta*, 1970, 190 (*detn, Fe*)Scott, K.N., *J. Am. Chem. Soc.*, 1972, 92, 8564 (*cmr*)*Belg. Pat.*, 833 181, (1975); *CA*, 86, 72210 (*manuf*)Kamath, B.V. *et al*, *J. Appl. Chem. Biotechnol.*, 1975, 25, 743 (*uv*)Reddy, S.B. *et al*, *Curr. Sci.*, 1977, 46, 236 (*occur*)Kumar, N.R. *et al*, *Indian J. Exp. Biol.*, 1979, 17, 114; *CA*, 90, 11813a.Settine, R.L. *et al*, *Org. Prep. Proced. Int.*, 1979, 11, 87 (*amide*)*Aldrich Library of FT-IR Spectra*, 1st edn., 1985, 2, 227A (*ir*)de Koster, C.G. *et al*, *Fresenius' Z. Anal. Chem.*, 1986, 323, 321 (*ms*)Hawker, C.J. *et al*, *J. Am. Chem. Soc.*, 1991, 113, 4583 (*Ph ester, dibenzyl ether, synth, ir, pmr, cmr, ms*)Chakraborty, T.K. *et al*, *J. Org. Chem.*, 1992, 57, 5462 (*Me esters*)**3,7-Dihydroxy-4*H*-1-benzopyran-4-one,****D-10111****9CI***3,7-Dihydroxychromone*

[75885-75-5]

C₉H₆O₄ M 178.144

Oxidn. prod. of Brazilin, B-00783. Pale-brown leaflets (MeOH aq.), needles (EtOH). Mp 271°.

3,5-Dihydroxybenzoic acid, 9CI**D-10110***α-Resorcylic acid, 8CI. Resorcinol-5-carboxylic acid*

[99-10-5]

C₇H₆O₄ M 154.122

*Di-Ac:*C₁₃H₁₀O₆ M 262.218

Needles (AcOH aq.). Mp 148-149°.

Di-O-β-D-glucopyranoside: [121707-70-8].C₂₁H₂₆O₁₄ M 502.428Constit. of the flowers of *Anthemis tinctoria*.*7-Me ether:* 3-Hydroxy-7-methoxy-4H-1-benzopyran-4-oneC₁₀H₈O₄ M 192.171

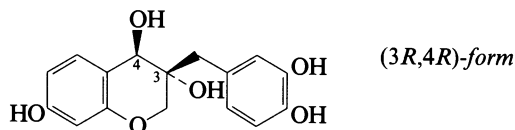
Microneedles (MeOH aq.). Mp 171-172°.

Di-Me ether: [67029-83-8]. 3,7-Dimethoxy-4H-1-benzopyran-4-oneC₁₁H₁₀O₄ M 206.198

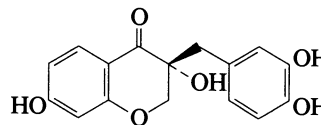
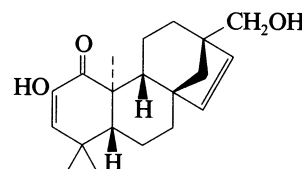
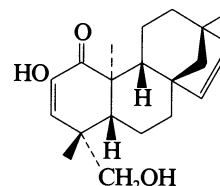
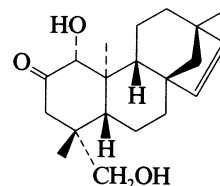
Leaflets (MeOH). Mp 169-170°.

Pfeiffer, P. *et al*, *Ber.*, 1924, **57**, 208; 1925, **58**, 1953 (*synth*)Nagy, M. *et al*, *Česk. Farm.*, 1989, **38**, 308 (*isol, deriv*)**3-(3,4-Dihydroxybenzyl)-3,4,7-chromantriol****D-10112**

3-[(3,4-Dihydroxyphenyl)methyl]-3,4-dihydro-2H-1-benzopyran-3,4,7-triol, 9CI

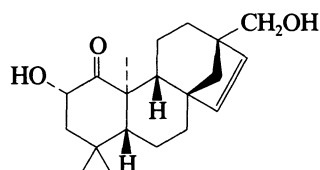
C₁₆H₁₆O₆ M 304.299**(3R,4R)-form** [111254-18-3](–)-trans-form. *Episappanol*Isol. from *Caesalpinia japonica* and *C. sappan*. Obt. as a 1:1 mixt. with its C-4 epimer.*3'-Me ether:* [111254-22-9]. 3'-O-MethylepisappanolC₁₇H₁₈O₆ M 318.326Constit. of *C. sappan*. Obt. as a mixt. with its C-4 epimer.*4-Me ether:* [112529-37-0]. 4-O-MethylepisappanolC₁₇H₁₈O₆ M 318.326Constit. of *C. japonica* and *C. sappan*. [α]_D²⁵ –36.2° (c, 0.58 in MeOH). Obt. as a mixt. with its C-4 epimer.**(3R,4S)-form** [111254-19-4](+)cis-form. *Sappanol*Isol. from *C. japonica* and *C. sappan*. Needles. Mp 157-160°. [α]_D²⁹ +3.7° (c, 0.50 in MeOH). Obt. as a 1:1 mixt. with its C-4 epimer.*3'-Me ether:* [111254-21-8]. 3'-O-MethylsappanolC₁₇H₁₈O₆ M 318.326Constit. of *C. sappan*. Obt. as a mixt. with its C-4 epimer.*4-Me ether:* [104778-16-7]. 4-O-Methylsappanol. 3-(3,4-Dihydroxybenzyl)-4-methoxy-3,7-chromantriolC₁₇H₁₈O₆ M 318.326Isol. from *C. japonica* and *C. sappan*. Powder. [α]_D²⁵ +54.4° (c, 0.62 in MeOH).

[104778-15-6, 111321-29-0, 111321-30-3, 111321-31-4, 111321-32-5]

Saitoh, T. *et al*, *Chem. Pharm. Bull.*, 1986, **34**, 2506 (*derivs*)Namikoshi, M. *et al*, *Chem. Pharm. Bull.*, 1987, **35**, 2761, 3548, 3579 (*isol, pmr, cmr, abs config*)**3-(3,4-Dihydroxybenzyl)-3,7-dihydroxy-4-chromanone****D-10113**3-[(3,4-Dihydroxyphenyl)methyl]-2,3-dihydro-3,7-dihydroxy-4H-1-benzopyran-4-one, 9CI. *Sappanone B*
[102067-85-6]C₁₆H₁₄O₆ M 302.283**(R)-form** [104778-15-6]Constit. of *Caesalpinia japonica* and *C. sappan*. Needles. Mp 157-160°. [α]_D²⁹ +53.7° (c, 0.41 in MeOH).Saitoh, T. *et al*, *Chem. Pharm. Bull.*, 1986, **34**, 2506 (*isol*)Namikoshi, M. *et al*, *Chem. Pharm. Bull.*, 1987, **35**, 3568, 3597 (*isol, pmr, cmr, abs config*)**2,17-Dihydroxy-2,15-beyeradien-1-one****D-10114**C₂₀H₂₈O₃ M 316.439**ent-form** [150036-78-5]Constit. of *Erythroxylum australe*. Gum. [α]_D –3° (CH₂Cl₂).Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 937 (*isol, pmr, cmr*)**2,19-Dihydroxy-2,15-beyeradien-1-one****D-10115**C₂₀H₂₈O₃ M 316.439**ent-form** [150036-81-0]Constit. of *Erythroxylum australe*. Cryst. (hexane). Mp 145-150°. [α]_D –46° (CH₂Cl₂).Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 937 (*isol, pmr, cmr*)**1,19-Dihydroxy-15-beyeren-2-one****D-10116**C₂₀H₃₀O₃ M 318.455**(ent-1β)-form** [150036-15-0]Constit. of *Erythroxylum australe*. Needles (hexane). Mp 165-169°. [α]_D +16° (CH₂Cl₂).Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 937 (*isol, pmr, cmr*)

2,17-Dihydroxy-15-beyeren-1-one

D-10117



$C_{20}H_{30}O_3$ M 318.455
(*ent*-2 β)-form [150036-12-7]

Constit. of *Erythroxylum australe*. Gum.

2-Ketone, 1 α -alcohol: [150036-13-8]. 1,17-Dihydroxy-15-beyeren-2-one

$C_{20}H_{30}O_3$ M 318.455

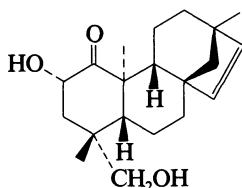
Constit. of *E. australe*. Cryst. (hexane). Mp 138-141°.

$[\alpha]_D^{25} +43^\circ$ (CH₂Cl₂).

Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 937 (*isol*, *pmr*, *cmr*)

2,19-Dihydroxy-15-beyeren-1-one

D-10118



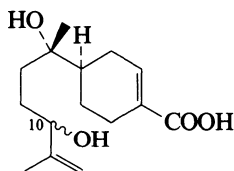
$C_{20}H_{30}O_3$ M 318.455
(*ent*-2 β)-form [150036-79-6]

Constit. of *Erythroxylum australe*. Needles (hexane). Mp 133-135°. $[\alpha]_D^{25} +143^\circ$ (EtOH).

Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 937 (*isol*, *pmr*, *cmr*)

7,10-Dihydroxy-2,11-bisaboladien-15-oic acid

D-10119



$C_{15}H_{24}O_4$ M 268.352

Me ester: [147029-04-7]. *Bisaborosaol E*

$C_{16}H_{26}O_4$ M 282.379

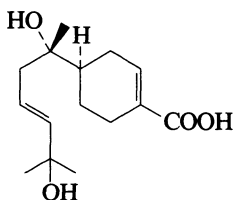
Constit. of *Rosa rugosa*. Syrup. Isol. as a mixt. of 10-epimers (E1 and E2).

[147126-86-1]

Hashidoko, Y. *et al*, *Phytochemistry*, 1993, **32**, 387 (*isol*, *pmr*)

7,11-Dihydroxy-2,9-bisaboladien-15-oic acid

D-10120



$C_{15}H_{24}O_4$ M 268.352

Me ester: [147029-03-6]. *Bisaborosaol F*

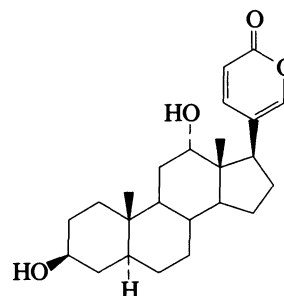
$C_{16}H_{26}O_4$ M 282.379

Constit. of *Rosa rugosa*. Syrup.

Hashidoko, Y. *et al*, *Phytochemistry*, 1993, **32**, 387 (*isol*, *pmr*, *cmr*)

3,12-Dihydroxy-20,22-bufadienolide

D-10121



$C_{24}H_{34}O_4$ M 386.530

(3 β ,5 α ,12 α)-form

3-O-[β -D-Xylopranosyl-(1 \rightarrow 4)- α -L-rhamnopyranoside], 12-Ac: [122074-68-4]. *Physodin C*

$C_{37}H_{54}O_{13}$ M 706.826

Isol. from *Urginea physodes*.

3-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)-4-O-acetyl- α -L-rhamnopyranoside], 12-Ac: [122051-36-9]. *Physodin D*

$C_{40}H_{58}O_{15}$ M 778.889

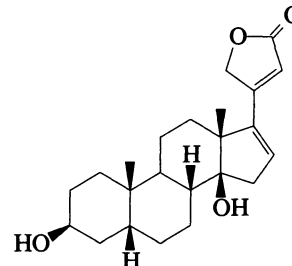
Isol. from *U. physodes*.

Van Heerden, F.R. *et al*, *S. Afr. J. Chem.*, 1988, **41**, 145.

3,14-Dihydroxycarda-16,20(22)-dienolide

D-10122

Updated Entry replacing D-01595



$C_{23}H_{32}O_4$ M 372.503

(3 β ,5 β ,14 β)-form [2763-20-4] *16-Anhydrogitoxigenin*

Present in *Nerium oleander*, *Cryptostegia grandiflora* and

C. madagascariensis. Platelets (MeOH/Et₂O). Mp 227°.

$[\alpha]_D^{25} +92.7^\circ$ (MeOH).

3-Ac: Mp 207°. $[\alpha]_D^{25} +83^\circ$ (CHCl₃).

3-O-D-Digitaloside: *16-Anhydrostrosipeside*

$C_{30}H_{44}O_8$ M 532.673

Isol. from seeds of *Strophanthus boivinii*, *Nerium*

oleander and *Digitalis* spp. Plates (MeOH aq.). Mp 242-

246°. $[\alpha]_D^{18} +69.4^\circ$ (MeOH).

3-O-L-Acofrioside: [20819-47-0]. *16-Desacetyl-16-anhydroacoschimperoside P*

$C_{30}H_{44}O_8$ M 532.673

Isol. from seeds of *Vallis solanacea*. Mp 251-254°. $[\alpha]_D^{25}$

+35° (c, 1.02 in MeOH).

3-O-[β -D-Glucopyranosyl(1 \rightarrow 4)- β -D-digitaloside]: *16-Anhydrodigitalin. 16-Anhydrodigitalinum verum*

$C_{36}H_{54}O_{13}$ M 694.815

Isol. from *Adenium honghel*, also present in *D. purpurea*

and *Nerium* spp. Needles. Mp 280-283°. $[\alpha]_D^{20} -8.7^\circ$

(Py). Readily obt. by dehydration of Digitalin (see

3,14,16-Trihydroxycarda-20(22)-enolide, T-01996), possible artifact.

3-O-*L*-Oleandroside: **16-Desacetyl-16-anhydrooleandrin**
 $C_{30}H_{44}O_7$ M 516.673
 Isol. from leaves of *Urechites lutea* and *N. oleander*.
 Prisms (MeOH aq.). Mp 224-230°. $[\alpha]_D^{21} + 20^\circ$ (MeOH).

3-O-*D*-Sarmentoside: **16-Desacetyl-16-anhydrocryptograndoside A**
 $C_{30}H_{44}O_7$ M 516.673
 Isol. from leaves of *Cryptostegia grandiflora* and seeds of *N. oleander*. Granules (Me₂CO/Et₂O). Mp 230-232°. $[\alpha]_D^{21} + 53^\circ$ (MeOH).

3-O- $[\beta$ -*D*-Glucopyranosyl(1 \rightarrow 4)- β -*D*-sarmentoside]: **16-Desacetyl-16-anhydrocryptograndoside B**
 $C_{36}H_{54}O_{12}$ M 678.815
 Minor constit. of leaves of *Cryptostegia grandiflora*. Shows v. little cardiac action. Cryst. (MeOH/Et₂O). Mp 198°. $[\alpha]_D + 28^\circ$ (MeOH). Readily obt. by loss of AcOH from Cryptograndoside B (see Oleandrogenin, O-00319).

3-O- β -*D*-Cymaroside: **16-Desacetyl-16-anhydrohonghelside A**
 $C_{30}H_{44}O_7$ M 516.673
 Isol. from leaves of *Adenium multiflorum*. Needles (MeOH aq.). Mp 206-210°. $[\alpha]_D^{16} + 74.8^\circ$ (MeOH). Prob. artifact.

3-O-*D*-Diginoside: **16-Anhydrodesacetylnerigoside**
 $C_{30}H_{44}O_7$ M 516.673
 Isol. from seeds of *Nerium oleander*. Prisms + H₂O (Me₂CO/Et₂O). Mp 182-186°. $[\alpha]_D^{25} + 55.6^\circ$ (MeOH).

3-O-(6-Deoxy-3-O-methyl- β -*D*-glucopyranoside): [128574-84-5]. **Obeside D**
 $C_{30}H_{44}O_8$ M 694.815
 Constit. of *Adenium obesum*. Prisms (MeOH). Mp 227-230°. $[\alpha]_D^{25} - 2.9^\circ$ (c, 0.96 in MeOH).

Reichstein, T. *et al*, *Helv. Chim. Acta*, 1950, **33**, 76, 1013, 1993; 1952, **35**, 434, 673, 898; 1953, **36**, 434; 1959, **42**, 977 (*isol, struct, derivs*)

Russel, J.H. *et al*, *Helv. Chim. Acta*, 1960, **43**, 167 (*synth*)

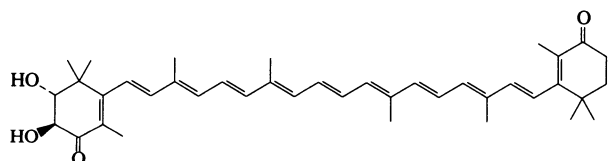
Kaufmann, H. *et al*, *Helv. Chim. Acta*, 1965, **48**, 65 (*16-Desacetyl-16-anhydroacoschimperoside P*)

Doskotch, R.W. *et al*, *J. Pharm. Sci.*, 1972, **61**, 570 (*isol*)

Sanduja, R. *et al*, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 285 (*isol*)

Yamauchi, T. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 669 (*Obeside D*)

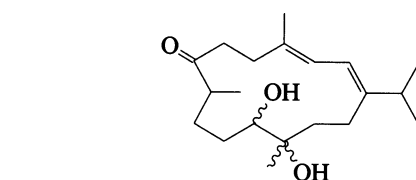
2,3-Dihydroxy- β,β -carotene-4,4'-dione D-10123



$C_{40}H_{52}O_4$ M 596.848
(2*R*,3*S*)-form [72826-79-0]
 Isol. from a mutant of *Rhizobium lupini*. λ_{max} 477nm (EtOH).

Beyer, P. *et al*, *Helv. Chim. Acta*, 1979, **62**, 2551.

11,12-Dihydroxy-1,3-cembradien-7-one D-10124



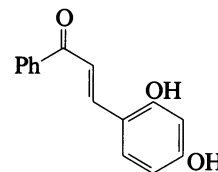
$C_{20}H_{34}O_3$ M 322.487

Constit. of a *Eunicea* sponge. Cryst. (MeOH). Mp 156-157°. $[\alpha]_D + 11.3^\circ$ (c, 0.7 in CHCl₃).

Shin, J. *et al*, *Tetrahedron*, 1993, **49**, 515 (*isol, pmr, cmr*)

2,4-Dihydroxychalcone D-10125

3-(2,4-Dihydroxyphenyl)-1-phenyl-2-propen-1-one
 [92496-59-8]



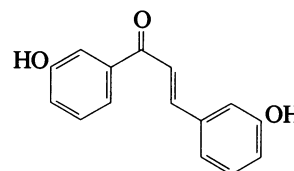
$C_{15}H_{12}O_3$ M 240.258

Constit. of the fruit of *Litchi chinensis*.

Jaiswal, B.P. *et al*, *Indian J. Exp. Biol.*, 1987, **25**, 66 (*occur*)

3,3'-Dihydroxychalcone D-10126

1,3-Bis(3-hydroxyphenyl)-2-propen-1-one, 9*CI*



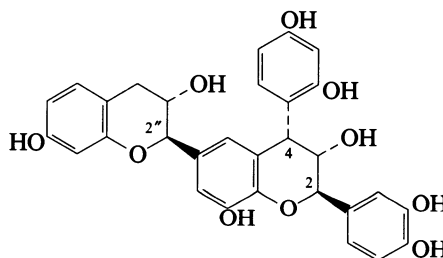
$C_{15}H_{12}O_3$ M 240.258

(*E*)-form [142784-23-4]

Constit. of *Primula macrophylla*. Yellow cryst. (MeOH). Mp 155-156° dec.

Ahmad, V.U. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 956 (*isol*)

6-(3,7-Dihydroxychroman-2-yl)-4-(2,4-dihydroxyphenyl)-3,3',4',8-tetrahydroxyflavan D-10127



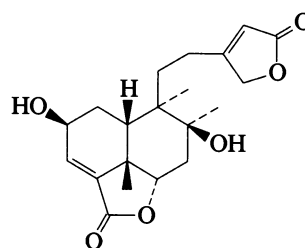
$C_{30}H_{26}O_{10}$ M 546.529

(2*R*,2''*R*,3*S*,3''*S*,4*S*)-form [127612-91-3]

Constit. of the heartwood of *Colophospermum mopane*.

Malan, J.C.S. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1990, 209 (*isol*)

2,8-Dihydroxy-3,13-clerodadiene-6,18:15,16-diolide D-10128



$C_{20}H_{26}O_6$ M 362.422
(*ent-2 α ,5 α ,6 β ,8 α*)-form

2-Ac: *Ventricosenediolide*

$C_{22}H_{28}O_7$ M 404.459

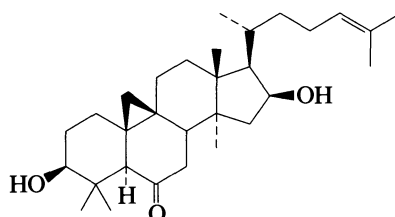
Constit. of *Lophozia ventricosa*. Cryst. Mp 172-175°.

$[\alpha]_D^{20} + 24.6^\circ$ (c, 0.27 in $CHCl_3$).

Tori, M. *et al*, *Phytochemistry*, 1993, **34**, 181 (*isol*, *pmr*, *cmr*, *cryst struct*)

3,16-Dihydroxy-24-cycloarten-6-one

D-10129



$C_{30}H_{48}O_3$ M 456.707

(*3 β* , *16 β*)-form

Di-O- β -D-glucopyranoside: [99481-43-3].

$C_{42}H_{68}O_{13}$ M 780.991

Constit. of the aerial parts of *Astragalus trigonus*.

Needles (EtOH aq.). Mp 214-215° dec. $[\alpha]_D^{25} + 25^\circ$ (c, 0.0013 in MeOH).

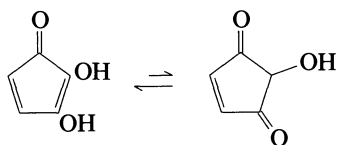
[99481-44-4]

El-Sebakhy, N. *et al*, *Planta Med.*, 1985, 350.

2,3-Dihydroxy-2,4-cyclopentadien-1-one, 9CI

D-10130

[124902-00-7]



$C_5H_4O_3$ M 112.085

Constit. of the seeds of *Trifolium repens*. Powder. Mp 208° dec.

Di-Me ether: *2,3-Dimethoxy-2,4-cyclopentadien-1-one*

$C_7H_8O_3$ M 140.138

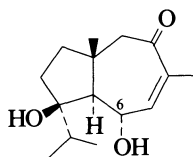
Mp 123-125°.

Nakatani, M. *et al*, *Phytochemistry*, 1989, **28**, 2499 (*isol*)

4,6-Dihydroxy-7-daufen-9-one

D-10131

Updated Entry replacing D-01672



$C_{15}H_{24}O_3$ M 252.353

(*4 β* , *6 α*)-form [96853-60-0] *Lancerodiol*. *Lancerotol*

Constit. of *Ferula lancerottensis*.

6-(4-Hydroxybenzoyl): [96853-62-2].

$C_{22}H_{28}O_5$ M 372.460

From *F. lancerottensis*. Cryst. Mp 227-228°.

6-(4-Methoxybenzoyl): [96853-59-7].

$C_{23}H_{30}O_5$ M 386.487

From *F. lancerottensis*. Gum.

6-(4-Hydroxy-3-methoxybenzoyl): *Lancerodiol vanillate*

$C_{23}H_{30}O_6$ M 402.486

From *F. orientalis*.

6-(3,4-Dimethoxybenzoyl): *Lancerotol veratrate*

$C_{24}H_{32}O_6$ M 416.513

Constit. of *F. linkii*.

Fraga, B.M. *et al*, *Phytochemistry*, 1985, **24**, 501 (*isol*)

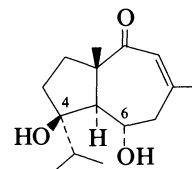
Díaz, J.G. *et al*, *Phytochemistry*, 1986, **25**, 1161 (*isol*, *pmr*, *cmr*)

Miski, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1987, **50**, 829 (*isol*)

4,6-Dihydroxy-8-daufen-10-one

D-10132

Updated Entry replacing D-01674



$C_{15}H_{24}O_3$ M 252.353

Several numbering systems are in use for daucanes.

(*4 β* , *6 α*)-form [79863-23-3] *Lapidol*

Isol. from *Ferula sinaica*. Yellow oil. $[\alpha]_D^{20} + 123^\circ$ (c, 1.2 in $CHCl_3$).

6-Angeloyl: [79863-24-4]. *Lapidin*

$C_{20}H_{30}O_4$ M 334.455

Constit. of *Ferula lapidosa*. Cryst. (hexane). Mp 80-81°.

$[\alpha]_D^{20} + 166^\circ$ (c, 1.5 in $CHCl_3$).

6-(4-Hydroxybenzoyl):

$C_{22}H_{28}O_5$ M 372.460

Constit. of *F. sinaica*. $[\alpha]_D^{24} + 12.9^\circ$ (c, 1.12 in $CHCl_3$).

6-(3,4,5-Trimethoxybenzoyl): [80535-89-3]. *Palliferin*

$C_{25}H_{34}O_7$ M 446.539

From *F. pallida*.

6-(3,4-Methylenedioxy-5-methoxybenzoyl): [80535-88-2].

Palliferinin

$C_{24}H_{30}O_7$ M 430.497

From *F. pallida*.

6-(4-Methoxybenzoyl): [53947-82-3]. *Ferutidin*

$C_{23}H_{30}O_5$ M 386.487

Constit. of *F. communis*, *F. sinacia* and *F. linkii*. Cryst.

(hexane). Mp 161°. $[\alpha]_D^{25} + 91^\circ$ (c, 0.88 in CH_2Cl_2).

6-(2-Methylbutanoyl):

$C_{20}H_{32}O_4$ M 336.470

Constit. of *F. linkii*. Cryst. (EtOAc/hexane). Mp 79-81°.

6-(2-Methylpropanoyl):

$C_{19}H_{30}O_4$ M 322.444

Constit. of *F. linkii*. Cryst. (EtOAc/hexane). Mp 101-

103°.

Golovina, L.A. *et al*, *Khim. Prir. Soedin.*, 1981, **17**, 318; *Chem. Nat. Compd. (Engl. Transl.)*, 244 (*isol*, *struct*)

Kushmuradov, A.Y. *et al*, *Khim. Prir. Soedin.*, 1981, **17**, 523 (*isol*)

Moiseeva, G.P. *et al*, *Khim. Prir. Soedin.*, 1984, **20**, 45; *Chem. Nat. Compd. (Engl. Transl.)*, 42 (*cd*)

Appendino, G. *et al*, *Phytochemistry*, 1984, **23**, 2545; 1990, **29**, 1481 (*Ferutidin*)

Ahmed, A.A., *Phytochemistry*, 1991, **30**, 1207 (*isol*, *pmr*)

González, A.G. *et al*, *Phytochemistry*, 1993, **33**, 863 (*derivs*, *pmr*, *cmr*)

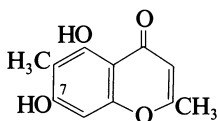
5,7-Dihydroxy-2,6-dimethyl-4H-1-benzopyran-4-one, 9CI

D-10133

Updated Entry replacing D-01717

5,7-Dihydroxy-2,6-dimethylchromone. **Eugenitol**

[491-48-5]

 $C_{11}H_{10}O_4$ M 206.198Constit. of the flowers of *Eugenia caryophyllata*. Prisms (EtOH or Me₂CO). Mp 290-292°.7-O-(2-O-Acetyl-β-D-glucopyranoside): [39387-36-5]. **Mollin** $C_{19}H_{22}O_{10}$ M 410.377Isol. from the lichen *Roccellaria mollis*.

7-O-(2,6-Di-O-acetyl-β-D-glucopyranoside): [41666-57-3].

Roccellin $C_{21}H_{24}O_{11}$ M 452.414Isol. from the lichen *R. mollis*. Needles. Mp 206-207°.7-Me ether: [480-12-6]. 5-Hydroxy-7-methoxy-2,6-dimethyl-4H-1-benzopyran-4-one. **Eugenitin** $C_{12}H_{12}O_4$ M 220.224From *E. caryophyllata*, *Lecanora rupicola*, *Chaetomium thielavioideum*, and *Cylindrocarpon* spp. Used as a 0.02M MeOH soln. for extraction-photometric detn. of Ti (λ_{max} 515 nm). Prisms (EtOH or Me₂CO). Sol. MeOH. Mp 162°.

7-Me ether, 5-Ac:

 $C_{14}H_{14}O_5$ M 262.262

Cryst. (EtOH). Mp 176-177°.

Schmid, H., *Helv. Chim. Acta*, 1949, **32**, 813; 1950, **33**, 917 (*isol. synth*)Schönberg, A. *et al*, *J. Am. Chem. Soc.*, 1953, **75**, 4992 (*synth*)Mukerjee, S.K. *et al*, *Proc. - Indian Acad. Sci., Sect. A*, 1953, **38**, 207 (*synth*)Mukerjee, S.K. *et al*, *Chem. Ind. (London)*, 1955, 1009.Murata, A. *et al*, *Bunseki Kagaku (Jpn. Anal.)*, 1970, **119**, 1346 (*synth*)Coombe, R.G. *et al*, *Aust. J. Chem.*, 1972, **25**, 875 (*isol*)Ito, T. *et al*, *Anal. Chim. Acta*, 1980, **113**, 343 (*detn. Ti*)Sekita, K. *et al*, *Chem. Pharm. Bull.*, 1980, **28**, 2428 (*deriv*)Huneck, S. *et al*, *Z. Naturforsch., B*, 1992, **47**, 449 (*Roccellin, Mollin*)**5,7-Dihydroxy-2,8-dimethyl-4H-1-benzopyran-4-one, 9CI**

D-10134

Updated Entry replacing D-01718

5,7-Dihydroxy-2,8-dimethylchromone. **Isoeugenitol**

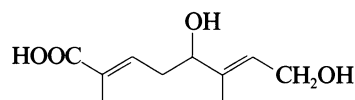
[479-06-1]

 $C_{11}H_{10}O_4$ M 206.198Present in *Eugenia caryophyllata*. Mp 229-230°.

7-(2,3,6-Triacetyl-β-D-glucopyranoside): [50816-68-7].

Lobodirin $C_{23}H_{26}O_{12}$ M 494.451Constit. of *Lobodirina cerebriformis*. Mp 247-249°. $[\alpha]_D^{24}$ -63° (c, 0.74 in EtOH/Py). Struct. revised in 1992.7-Me ether: [519-18-6]. 5-Hydroxy-7-methoxy-2,8-dimethyl-4H-1-benzopyran-4-one. **Isoeugenitin** $C_{12}H_{12}O_4$ M 220.224Constit. of *E. caryophyllata*. Golden needles. Mp 147.5-148°.Schmid, H. *et al*, *Helv. Chim. Acta*, 1949, **32**, 1358; 1950, **33**, 917, 1770.Huneck, S., *Phytochemistry*, 1973, **12**, 2497 (*Lobodirin*)Huneck, S. *et al*, *Z. Naturforsch., B*, 1992, **47**, 449 (*Lobodirin*)**5,8-Dihydroxy-2,6-dimethyl-2,6-octadienoic acid**

D-10135

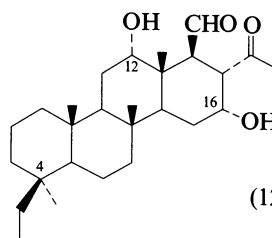
 $C_{10}H_{16}O_4$ M 200.234**(2E,5Z,6E)-form**

β-D-Glucopyranosyl ester:

 $C_{16}H_{26}O_9$ M 362.376Constit. of *Penstemon* spp.Abdel-Kader, M.S. *et al*, *Phytochemistry*, 1993, **34**, 1367 (*isol, pmr, cmr*)**12,16-Dihydroxy-20,24-dimethyl-24-oxo-25-scalaranal**

D-10136

Updated Entry replacing D-01735

**(12α,16α)-form** $C_{27}H_{44}O_4$ M 432.642

C-14 config. not indicated for Scalarherbacin B, prob. the same as for the other compds. in this entry.

(12α,16α)-form16-Ac: [73723-40-7]. **Scalarherbacin B** $C_{29}H_{46}O_5$ M 474.679Isol. from sponge *Dysidea herbacea*.Di-Ac: **Scalarherbacin B acetate** $C_{31}H_{48}O_6$ M 516.717Isol. from *D. herbacea*.**(12α,16β)-form**12-Ac: [99617-38-6]. **12α-Acetoxy-16β-hydroxy-20,24-dimethyl-24-oxo-25-scalaranal** $C_{29}H_{46}O_5$ M 474.679Constit. of sponge *Carteriospongia foliascens*. Oil.

12,16-Di-Ac:

 $C_{31}H_{48}O_6$ M 516.717Constit. of *Strepsichordaia lendenfeldi*. Oil. $[\alpha]_D$ +88.1° (c, 0.24 in CHCl₃).

16-Propanoyl, 12-Ac:

 $C_{32}H_{50}O_6$ M 530.743Constit. of *S. lendenfeldi*. Oil. $[\alpha]_D$ +96.0° (c, 0.33 in CHCl₃).

16-(3R-Hydroxybutanoyl), 12-Ac:

 $C_{33}H_{52}O_7$ M 560.770Constit. of *S. lendenfeldi*. Oil. $[\alpha]_D$ +61.3° (c, 1.08 in CHCl₃).

16-(3-Hydroxypentanoyl), 12-Ac:

 $C_{34}H_{54}O_7$ M 574.796Constit. of *S. lendenfeldi*. Oil. $[\alpha]_D$ +60.3° (c, 0.46 in CHCl₃).**(12β,16α)-form**16-O-(3-Hydroxypentanoyl): [78570-09-9]. **Foliaspongini** $C_{32}H_{52}O_6$ M 532.759Isol. from *Phyllospongia foliascens*. Shows antiinflammatory props. Cryst. (MeOH). Mp 186-189°. $[\alpha]_D$ +44° (CHCl₃).

12-Ketone, 16-O-(3-hydroxypentanoyl): [125990-21-8].

Dehydrofoliaspongini

$C_{32}H_{50}O_6$ M 530.743

Constit. of *P. foliascens*. Glass. $[\alpha]_D^{20} + 39^\circ$ (c, 3.7 in $CHCl_3$).

12-Ketone, 16-O-(3S-hydroxy-4-methylpentanoyl): [125990-20-7]. **Phyllofoliaspongini**

$C_{33}H_{52}O_6$ M 544.770

Constit. of *P. foliascens*. Glass. $[\alpha]_D^{20} + 40^\circ$ (c, 0.9 in $CHCl_3$).

Kashman, Y. *et al*, *Tetrahedron Lett.*, 1979, 3879.

Kikuchi, H. *et al*, *Chem. Pharm. Bull.*, 1983, 31, 552 (*isol*)

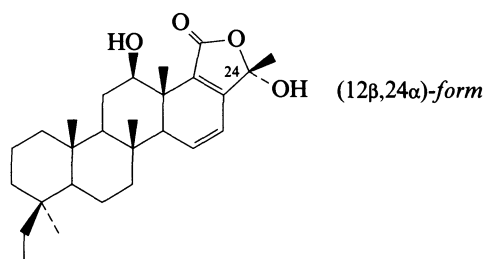
Braekman, J.C. *et al*, *Tetrahedron*, 1985, 41, 4603 (*struct*)

Kitagawa, I. *et al*, *Chem. Pharm. Bull.*, 1989, 37, 2078

(*Phyllofoliaspongini*, *Dihydrofoliaspongini*)

Bowden, B.F. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, 55, 1234 (*isol*, *pmr*, *cmr*)

12,24-Dihydroxy-20,24-dimethyl-15,17-scalaradien-25,24-olide D-10137



$C_{27}H_{40}O_4$ M 428.611

(12β,24α)-form

12-(3-Hydroxypentanoyl): [145680-53-1]. **Phyllactone E**

$C_{32}H_{48}O_6$ M 528.728

Constit. of *Phyllospongia foliascens*.

(12β,24β)-form

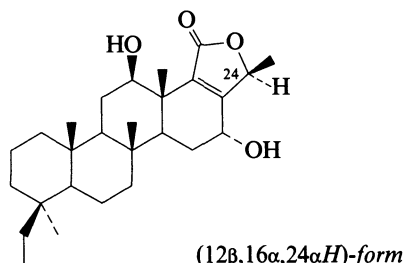
12-(3-Hydroxypentanoyl): [145613-56-5]. **Phyllactone D**

$C_{32}H_{48}O_6$ M 528.728

Constit. of *P. foliascens*.

Fu, X. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, 55, 1607 (*isol*, *pmr*, *cmr*)

12,16-Dihydroxy-20,24-dimethyl-17-scalararen-25,24-olide D-10138



$C_{27}H_{42}O_4$ M 430.626

(12β,16α,24αH)-form

12-(3-Hydroxypentanoyl): [145680-52-0]. **Phyllactone B**

$C_{32}H_{50}O_6$ M 530.743

Constit. of *Phyllospongia foliascens*. Needles (Me_2CO). Mp 179-180°. $[\alpha]_D^{25} + 27^\circ$ (c, 0.98 in $CHCl_3$).

12-(3-Acetoxy-pentanoyl), 16-Ac: [145613-55-4]. **Phyllactone C**

$C_{36}H_{54}O_8$ M 614.818

Constit. of *P. foliascens*. Gum. $[\alpha]_D^{20} + 29^\circ$ (c, 0.22 in $CHCl_3$).

(12β,16α,24βH)-form

12-(3-Hydroxypentanoyl): [145613-54-3].

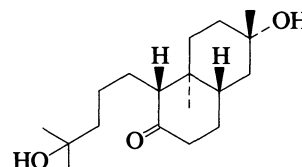
$C_{32}H_{50}O_6$ M 530.743

Constit. of *P. foliascens*. Needles (Me_2CO). Mp 193-194°. $[\alpha]_D^{25} + 11^\circ$ (c, 1.13 in $CHCl_3$).

Fu, X. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, 55, 1607 (*isol*, *pmr*, *cmr*)

4,13-Dihydroxy-15,16-dinor-4,5-seco-5-rostanone D-10139

4,13-Dihydroxy-15,16-dinor-5-pictanone



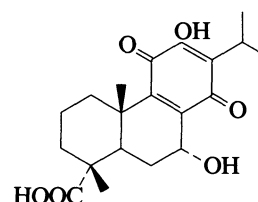
$C_{18}H_{32}O_3$ M 296.449

(ent-13β)-form [150036-61-6]

Constit. of *Erythroxyton pictum*. Oil.

Ansell, S.M. *et al*, *Phytochemistry*, 1993, 32, 945 (*isol*, *pmr*)

7,12-Dihydroxy-11,14-dioxo-8,12-abietadien-18-oic acid D-10140



$C_{20}H_{26}O_6$ M 362.422

7α-form [145700-89-6] **Horminone-18-oic acid**

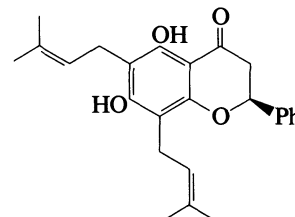
Constit. of *Salvia divaricata*. Light yellow amorph. solid.

Ulubelen, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, 55, 1518 (*isol*, *pmr*, *cmr*)

5,7-Dihydroxy-6,8-diprenylflavanone D-10141

Updated Entry replacing D-01758

2,3-Dihydro-5,7-dihydroxy-6,8-bis(3-methyl-2-butenyl)-4H-1-benzopyran-4-one. **Spinoflavanone B**



$C_{25}H_{28}O_4$ M 392.494

(S)-form [96386-71-9]

Isol. from *Helichrysum rugulosum* and *Tephrosia spinosa*.

Yellow oil. $[\alpha]_D^{25} - 72.2^\circ$.

(±)-form [129314-38-1]

Isol. from the roots of *Glycyrrhiza pallidiflora*. Cryst.

(C_6H_6 /hexane). Mp 101-102°.

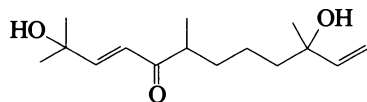
Bohlmann, F. *et al*, *Planta Med.*, 1984, 50, 271 (*isol*)

Fukai, T. *et al*, *Heterocycles*, 1990, 31, 643 (*isol*)

Venkata, R.E. *et al*, *Phytochemistry*, 1993, 32, 183 (*isol*, *pmr*)

2,10-Dihydroxy-3,11-dodecadien-5-one*Salvinin*†

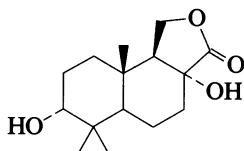
[145701-28-6]

C₁₅H₂₆O₃ M 254.369Constit. of *Salvia divaricata*. Amorph.Ulubelen, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1518 (*isol*, *pmr*, *cmr*)

D-10142

Corey, E.J. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1983, **80**, 3581(*biosynth*)Corey, E.J. *et al*, *Tetrahedron Lett.*, 1983, **24**, 4883 (*synth*, *pmr*, *uv*, *ms*)**3,8-Dihydroxy-12,11-drimanolide**

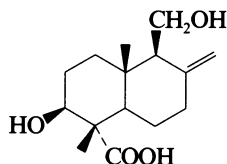
D-10143

C₁₅H₂₄O₄ M 268.352**(3α,8α)-form** [145512-52-3] **3α-Hydroxyypeniopholide**Constit. of *Peniophora polygonia*. Cryst. Mp 178-179.5°.[α]_D²¹ –34.8° (c, 0.21 in MeOH).**(3β,8α)-form** [145400-87-9] **3β-Hydroxyypeniopholide**Constit. of *P. polygonia*. Cryst. Mp 178-179.5°. [α]_D²¹

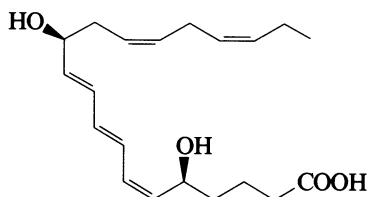
–34.8° (c, 0.21 in MeOH).

Ayer, W.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1454 (*isol*, *pmr*, *cmr*)**3,11-Dihydroxy-8(12)-drimen-13-oic acid**

D-10144

C₁₅H₂₄O₄ M 268.352**3β-form** [151029-04-8]Constit. of *Cryptoporus volvatus*. Powder. Mp 180-182°.[α]_D²¹ –6.5° (c, 1.38 in CHCl₃).Takahashi, H. *et al*, *Phytochemistry*, 1993, **33**, 1055 (*isol*, *pmr*, *cmr*)**5,12-Dihydroxy-6,8,10,14,17-eicosapentaenoic acid***Leukotriene B₅*. *LTB₅*

[80445-66-5]

C₂₀H₃₀O₄ M 334.455Prod. *in vivo* from eicosapentaenoic acid. No phys. props. reported.Murphy, R.A. *et al*, *Prostaglandins*, 1981, **22**, 613 (*isol*)

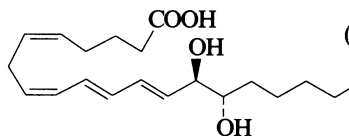
D-10145

14,15-Dihydroxy-5,8,10,12-eicosatetraenoic acid

D-10146

14,15-DiHETE

[77667-09-5]

*(5Z,8Z,10E,12E,14R,15S)-form*C₂₀H₃₂O₄ M 336.470**(5Z,8Z,10E,12E,14R,15S)-form** [82263-61-4]

Formed by human blood platelets and swine leukocytes.

No phys. props. given.

(5Z,8Z,10E,12E,14S,15S)-form [82263-60-3]

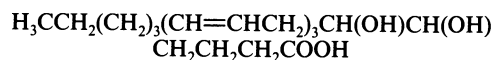
Formed by arachidonate lipoxygenase of leukocytes. No phys. props. given.

[89410-77-5, 89410-78-6]

Maas, R.L. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1983, **80**, 2884(*biosynth*)Falck, J.R. *et al*, *Tetrahedron Lett.*, 1983, **24**, 5719 (*synth*, *pmr*, *bibl*)Radmark, O. *et al*, *J. Biol. Chem.*, 1984, **259**, 13011 (*synth*, *biochem*)Corey, E.J. *et al*, *Tetrahedron Lett.*, 1985, **26**, 1919 (*synth*)Brash, A.R. *et al*, *Arch. Biochem. Biophys.*, 1989, **273**, 414.**5,6-Dihydroxy-8,11,14-eicosatrienoic acid**

D-10147

[81920-20-9]

C₂₀H₃₄O₄ M 338.486Metab. of arachidonic acid. *5R,6R*-form synth. No phys. props. reported.*δ*-Lactone: [98050-32-9]. *Tetrahydro-6-(1-hydroxy-3,6,9-pentadecatrienyl)-2H-pyran-2-one*

No phys. props. reported.

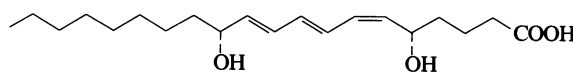
[98050-31-8]

Corey, E.J. *et al*, *Tetrahedron Lett.*, 1983, **24**, 265 (*synth*)Moustakis, C.A. *et al*, *J. Am. Chem. Soc.*, 1985, **107**, 5283 (*synth*)Nishimura, M. *et al*, *Prostaglandins*, 1989, **38**, 413 (*biosynth*)Balazy, M., *J. Biol. Chem.*, 1991, **266**, 23561 (*biosynth*)**5,12-Dihydroxy-6,8,10-eicosatrienoic acid**

D-10148

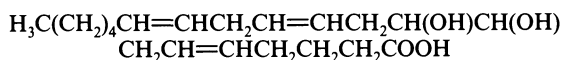
9CI*Leukotriene B₃*

[88099-35-8]

C₂₀H₃₄O₄ M 338.486Metab. of arachidonic acid. Cryst. (CH₂Cl₂/Et₂O). Mp 101-103°. [α]_D²¹ +7.8° (c, 0.23 in CDCl₃).Cotterill, I. *et al*, *J. Chem. Soc., Chem. Commun.*, 1990, 1661(*synth*)Kobayashi, Y. *et al*, *J. Org. Chem.*, 1990, **55**, 5324 (*synth*, *uv*, *pmr*, *cmr*)Babudri, F. *et al*, *J. Org. Chem.*, 1991, **56**, 6245 (*synth*, *pmr*)

8,9-Dihydroxy-5,11,14-eicosatrienoic acid **D-10149**

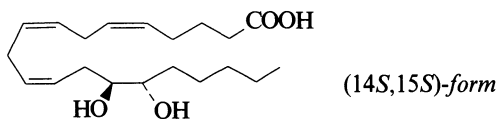
[81943-03-5]



$\text{C}_{20}\text{H}_{34}\text{O}_4$ M 338.486
Arachidonic acid metab.

Oliw, E.H. *et al*, *Biochim. Biophys. Acta*, 1982, **721**, 135 (*biosynth*)Oliw, E.H. *et al*, *J. Biol. Chem.*, 1982, **257**, 3771 (*biosynth*)Nishimura, M. *et al*, *Prostaglandins*, 1989, **38**, 413 (*biosynth*)**14,15-Dihydroxy-5,8,11-eicosatrienoic acid** **D-10150**

[79551-81-8]



$\text{C}_{20}\text{H}_{34}\text{O}_4$ M 338.486

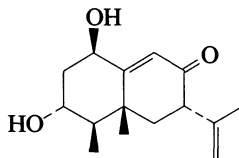
(5*Z*,8*Z*,11*Z*,14*R*,15*S*)-form [89410-73-1]

Prod. of arachidonic acid metab.

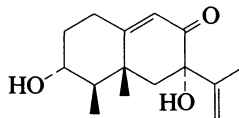
(5*Z*,8*Z*,11*Z*,14*S*,15*S*)-form [89410-74-2]

Prod. of arachidonic acid metab.

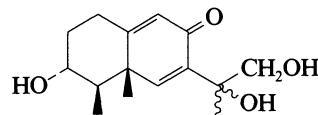
[98050-20-5]

Oliw, E.H. *et al*, *J. Biol. Chem.*, 1981, **256**, 9924 (*biosynth*)Manna, S. *et al*, *Tetrahedron Lett.*, 1983, **24**, 33 (*synth*)Falck, J.R. *et al*, *Tetrahedron Lett.*, 1983, **24**, 5715 (*synth, bibl*)Moustakis, C.A. *et al*, *J. Am. Chem. Soc.*, 1985, **107**, 5283 (*synth*)Nishimura, M. *et al*, *Prostaglandins*, 1989, **38**, 413 (*biosynth*)**1,3-Dihydroxy-9,11-eremophiladien-8-one** **D-10151**

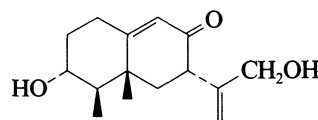
$\text{C}_{15}\text{H}_{22}\text{O}_3$ M 250.337

(1*β*,3*α*,7*βH*)-form [129602-06-8]Metab. of *Drechslera gigantea*. $[\alpha]_{\text{D}} + 33.8^\circ$ (c, 0.07 in MeOH).Sugawara, F. *et al*, *Biosci., Biotechnol., Biochem.*, 1993, **57**, 236 (*isol, pmr, cmr*)**3,7-Dihydroxy-9,11-eremophiladien-8-one** **D-10152**

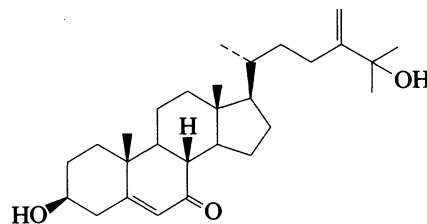
$\text{C}_{15}\text{H}_{22}\text{O}_3$ M 250.337

(3*α*,7*α*)-form [129602-11-5]Metab. of *Drechslera gigantea*. $[\alpha]_{\text{D}} - 47^\circ$ (c, 0.1 in CHCl_3).Sugawara, F. *et al*, *Biosci., Biotechnol., Biochem.*, 1993, **57**, 236 (*isol, pmr*)**3,11-Dihydroxy-7,9-eremophiladien-8-one** **D-10153**

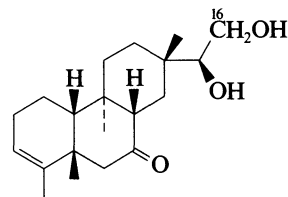
$\text{C}_{15}\text{H}_{22}\text{O}_4$ M 266.336

(3*α*,11*ξ*)-form [129602-09-1]Metab. of *Drechslera gigantea*.Sugawara, F. *et al*, *Biosci., Biotechnol., Biochem.*, 1993, **57**, 236 (*isol, pmr*)**3,12-Dihydroxy-9,11(13)-eremophiladien-8-one** **D-10154**

$\text{C}_{15}\text{H}_{22}\text{O}_3$ M 250.337

(3*α*,7*βH*)-form [129602-04-6]Metab. of *Drechslera gigantea*. $[\alpha]_{\text{D}} + 93^\circ$ (c, 1 in CHCl_3).Sugawara, F. *et al*, *Biosci., Biotechnol., Biochem.*, 1993, **57**, 236 (*isol, pmr, cmr*)**3,25-Dihydroxyergosta-5,24(28)-dien-7-one** **D-10155**

$\text{C}_{28}\text{H}_{44}\text{O}_3$ M 428.654

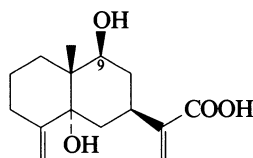
3*β*-form [147641-74-5]Constit. of *Stelodoryx chlorophylla*. $[\alpha]_{\text{D}} - 31.9^\circ$ (c, 0.3 in CHCl_3).De Riccardis, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 282 (*isol, pmr, cmr, ms*)**15,16-Dihydroxy-3-erythroxylen-7-one** **D-10156**

$\text{C}_{20}\text{H}_{32}\text{O}_3$ M 320.471

(ent-5*α*,13*R*)-form [150527-28-9] **Fagonone**Constit. of *Fagonia bruguieri*. Needles ($\text{CHCl}_3/\text{Et}_2\text{O}$). Mp 133-135°. $[\alpha]_{\text{D}}^{25} + 23^\circ$ (c, 0.086 in CHCl_3).

16-Ac: [149981-93-1].

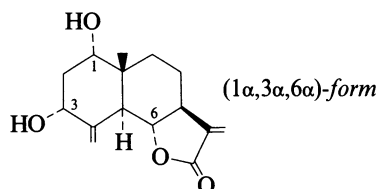
 $\text{C}_{22}\text{H}_{34}\text{O}_4$ M 362.508Constit. of *F. bruguieri*. Needles ($\text{CHCl}_3/\text{MeOH}$). Mp 120-122°. $[\alpha]_{\text{D}}^{25} + 26^\circ$ (c, 0.066 in CHCl_3).Abdel-Kader, M.S. *et al*, *Phytochemistry*, 1993, **33**, 718 (*isol, pmr, cmr, cryst struct*)

5,9-Dihydroxy-4(15),11(13)-eudesmadien-12-oic acid **D-10157**C₁₅H₂₂O₄ M 266.336**(5α,9β)-form**

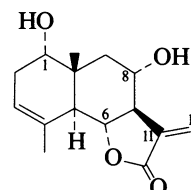
9-Ac: [126255-44-5]. 9-Acetoxy-5-hydroxy-4(15),11(13)-eudesmadien-12-oic acid

C₁₇H₂₄O₅ M 308.374Constit. of *Artemisia tournefortiana*. Oil (as Me ester). [α]_D²⁴ + 7° (c, 0.55 in CHCl₃) (Me ester).Sanz, J.F. et al, *Justus Liebigs Ann. Chem.*, 1990, 541 (isol, pmr, cmr)**1,3-Dihydroxy-4(15),11(13)-eudesmadien-12,6-olide** **D-10158**

Updated Entry replacing D-01820

C₁₅H₂₀O₄ M 264.321**(1α,3α,6α)-form** [27740-14-3] **Ludovicin B**Constit. of *Artemisia ludoviciana*. Cryst. (CH₂Cl₂/EtOAc). Mp 152°. [α]_D²⁵ + 138°.11β,13-Dihydro: [25645-08-3]. 1α,3α-Dihydroxy-4(15)-eudesmen-12,6α-olide. **Erivanin**C₁₅H₂₂O₄ M 266.336Constit. of *A. fragrans* and *A. spicigera*. Cryst. (also descr. as oil). Mp 203-205°. [α]_D²⁰ + 112° (c, 3.9 in EtOH).11β,13-Dihydro, 1-Ac: **1-Acetylerivanin**C₁₇H₂₄O₅ M 308.374Constit. of *Senecio chrysanthemoides*. Cryst. Mp 187-189°.**(1α,3β,6α)-form**11β,13-Dihydro: **3-Epierivanin**C₁₅H₂₂O₄ M 266.336Constit. of *A. herba-alba*. Gum. [α]_D²⁴ + 124° (c, 0.7 in CHCl₃).**(1β,3α,6α)-form****3α-Hydroxyreynosin**Constit. of *A. ludoviciana*. Cryst. (EtOAc/diisopropyl ether). Mp 236-237°. [α]_D + 73° (c, 0.23 in Me₂CO).11β,13-Dihydro: [32203-46-6]. 1β,3α-Dihydroxy-4(15)-eudesmen-12,6α-olide. **1-Epierivanin**C₁₅H₂₂O₄ M 266.336Constit. of *Picris aculeata*. Gum.**(1β,3β,6α)-form** [41653-78-5] **Ridentin B**Constit. of *A. tripartita*. Cryst. (EtOAc). Mp 188-190°.Lee, K.H. et al, *Phytochemistry*, 1970, 9, 403 (*Ludovicin B*)Irwin, M.A. et al, *Phytochemistry*, 1973, 12, 871 (*Ridentin B*)Samek, Z. et al, *Collect. Czech. Chem. Commun.*, 1975, 40, 2676 (*Erivanin*)Arias, J.M. et al, *J. Chem. Soc., Perkin Trans. 1*, 1987, 471 (*synth*)Harapanhalli, R.S. et al, *J. Chem. Soc., Perkin Trans. 1*, 1988, 2633 (*synth*)Bruno, M. et al, *Phytochemistry*, 1988, 27, 1201 (*1-Epierivanin*)Sanz, J.F. et al, *J. Nat. Prod. (Lloydia)*, 1990, 53, 940 (*3-Epierivanin*)Mengi, N. et al, *Phytochemistry*, 1991, 30, 2329 (*1-Acetylerivanin*)Marco, J.A. et al, *Phytochemistry*, 1993, 32, 460 (*Erivanin*)Ruiz-Cancino, A. et al, *Phytochemistry*, 1993, 33, 1333 (*3α-Hydroxyreynosin*)Banerjee, A.K. et al, *Tetrahedron*, 1993, 49, 4761 (*synth, rev*)**1,8-Dihydroxy-3,11(13)-eudesmadien-12,6-olide** **D-10159**

Updated Entry replacing D-01830

C₁₅H₂₀O₄ M 264.321**(1α,6α,8α)-form** [36204-28-1] **Dimerostemmaabradiolide**1-Ac: [36437-92-0]. **Isoludalbin**C₁₇H₂₂O₅ M 306.358Constit. of *Artemisia ludoviciana*. Cryst. (EtOAc/pet. ether). Mp 174-175°.8-Ac: [36437-90-8]. **Ludalbin**C₁₇H₂₂O₅ M 306.358Constit. of *A. ludoviciana* and *A. mexicana*. Cryst. (Et₂O/pet. ether). Mp 169-171°. [α]_D²⁷ + 227.6° (c, 1 in CHCl₃).

1-O-(2-Hydroxymethylpropenoyl):

C₁₉H₂₄O₆ M 348.395Constit. of *Dimerostemma brasilianum*. Gum.**6α,7α-Epoxyde, 8-Ac: α-Epoxyyludalbin**C₁₇H₂₀O₆ M 320.341Constit. of *A. mexicana*. Cryst. Mp 185°.**(1β,6α,8α)-form** [84305-05-5] **8α-Hydroxybalchanin**Constit. of *Leucanthemella serotina*. Cryst.(CHCl₃/Et₂O). Mp 80-82°. [α]_D²⁰ + 150.6° (c, 0.29 in CHCl₃).11β,13-Dihydro: **8α-Hydroxy-11β,13-dihydrobalchanin**C₁₅H₂₂O₄ M 266.336Isol. from *L. serotina*. Oil.8-(Phenylacetyl): **8-Phenylacetoxyludalbin**C₂₃H₂₆O₅ M 382.455Constit. of *Anthanasia calva*. Cryst. Mp 177°. [α]_D²⁴ + 165° (c, 0.52 in CHCl₃).8-(3-Hydroxy-3-methylbutanoyl): [81575-41-9]. **Beogradolide A**C₂₀H₂₈O₆ M 364.438Constit. of *Tanacetum serotinum*.8-Tigloyl: [81575-40-8]. **Beogradolide B**C₂₀H₂₆O₅ M 346.422Constit. of *T. serotinum*.**(1β,6α,8β)-form****8β-Hydroxybalchanin**8-Ac: [56064-70-1]. **α-Liriodenolide**C₁₇H₂₂O₅ M 306.358Constit. of *Liriodendron tulipifera*. Cryst.(Et₂O/diisopropyl ether). Mp 72-73°.

8-Angeloyl:

C₂₀H₂₆O₅ M 346.422Constit. of *Tithonia rotundifolia*. Gum. [α]_D²⁴ + 58° (c, 0.05 in CHCl₃).

8-(3-Hydroxy-2-methylenebutanoyl): [92356-87-1].

Tirotundifolin CC₂₀H₂₆O₆ M 362.422

Constit. of *Tithonia rotundifolia*. Cryst. (Me₂CO/hexane). Mp 168-170°. [α]_D +30.8° (c, 0.2 in MeOH).

8-(2-Hydroxymethyl-2-butenoyl)(Z)-: [92356-86-0].

Tirotundifolin D

C₂₀H₂₆O₆ M 362.422

Constit. of *T. rotundifolia*. Cryst. (Me₂CO/hexane). Mp 163-165°.

8-(2,3-Epoxy-2-methylbutanoyl):

C₂₀H₂₆O₆ M 362.422

Constit. of *T. rotundifolia*. Gum.

Bohlmann, F. *et al*, *Phytochemistry*, 1981, **20**, 267; 1982, **21**, 1343 (isol)

Holub, M. *et al*, *Collect. Czech. Chem. Commun.*, 1982, **47**, 2927

(8-Hydroxybalchanin)

Doskotch, R.W. *et al*, *J. Nat. Prod. (Lloydia)*, 1983, **46**, 923 (α -Liriodenolide)

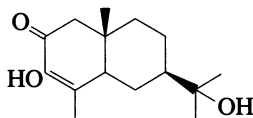
Pérez, A.L. *et al*, *Phytochemistry*, 1984, **23**, 823 (Tirotundifolins)

Mata, R. *et al*, *Phytochemistry*, 1984, **23**, 1665 (Epoxydulalbin)

Fernandez, J. *et al*, *Tetrahedron*, 1987, **43**, 805 (synth, 8-Hydroxy-11,13-dihydrobalchanin)

Stefanovic, M. *et al*, *CA*, 1990, **112**, 52162e (Beogradolides)

Zdero, C. *et al*, *Phytochemistry*, 1991, **30**, 1161 (8-Phenylacetylulalbin)

3,11-Dihydroxy-3-eudesmen-2-one**D-10160**

C₁₅H₂₄O₃ M 252.353

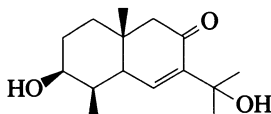
3,11-Di-O- β -D-glucopyranoside: [126054-85-1]. **Atractyliside I**

C₂₇H₄₄O₁₃ M 576.637

Constit. of *Atractylodes lancea*. Needles. Mp 156-158°.

[α]_D²⁷ +19.7° (c, 1 in MeOH).

Yahara, S. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2995 (isol, pmr, cmr)

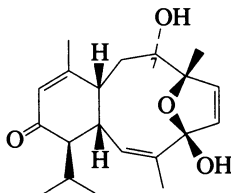
3,11-Dihydroxy-6-eudesmen-8-one**D-10161**

C₁₅H₂₄O₃ M 252.353

(3 β ,4 β)-form [71539-79-2] **Pluchein**

Constit. of *Pluchea chingoyo*. Cryst. Mp 77-79°.

Chiang, M.T. *et al*, *Rev. Latinoam. Quim.*, 1979, **10**, 95 (isol, pmr)

7,11-Dihydroxy-3,9,12-eunicellatrien-2-one**D-10162**

C₂₀H₂₈O₄ M 332.439

(7 α ,8 β ,11 β)-form

7-(3-Methyl-2-butenoyl): **Valdivone A**

C₂₅H₃₄O₅ M 414.541

Constit. of *Alcyonium valdivae*. Needles. Mp 89-91°. [α]_D +94.4° (c, 0.34 in CHCl₃).

7-(3-Methylbutanoyl): **Dihydrovaldivone A**

C₂₅H₃₆O₅ M 416.556

Constit. of *A. valdivae*. Oil.

7-(Phenylacetyl): **Valdivone B**

C₂₈H₃₄O₅ M 450.574

Constit. of *A. valdivae*. Needles. Mp 171-173°. [α]_D +79.4° (c, 0.57 in CHCl₃).

11-Me ether, 7-(3-methyl-2-butenoyl): **4-O-Methylvaldivone A**

C₂₆H₃₆O₅ M 428.567

Constit. of *A. valdivae*. Oil.

11-Me ether, 7-(phenylacetyl): **4-O-Methylvaldivone B**

C₂₉H₃₆O₅ M 464.600

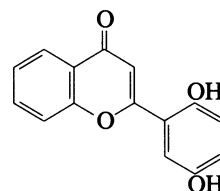
Constit. of *A. valdivae*. Oil.

Lin, Y. *et al*, *Tetrahedron*, 1993, **49**, 7977 (isol, pmr, cmr)

2',5'-Dihydroxyflavone**D-10163**

2-(2,5-Dihydroxyphenyl)-4H-1-benzopyran-4-one

[92439-19-5]



C₁₅H₁₀O₄ M 254.242

Large discrepancy in Mp between synthetic and natural samples. Isol. from the farinose exudate of *Primula pulverulenta* and *P. japonica*. Pale yellow needles (EtOAc/hexane). Yellow needles (EtOH). Mp 173-175° (natural), Mp 284-285° (synthetic).

5'-Ac: [115219-85-7]. 5'-Acetoxy-2'-hydroxyflavone

C₁₇H₁₂O₅ M 296.279

Isol. from the farinose exudate of *P. pulverulenta*. Needles (EtOAc). Mp 221-222°.

Di-Ac: Needles (EtOH), powder (MeOH). Mp 92-94° (natural), Mp 148° (synthetic).

Di-Me ether: [74670-10-3]. 2',5'-Dimethoxyflavone

C₁₇H₁₄O₄ M 282.295

Cryst. (EtOH). Mp 120°.

Gallagher, K.M. *et al*, *J. Chem. Soc.*, 1953, 3770 (synth)

Wollenweber, E. *et al*, *Z. Naturforsch.*, C, 1988, **43**, 305 (isol, uv, ms, pmr.)

2',7-Dihydroxyflavone**D-10164**

7-Hydroxy-2-(2-hydroxyphenyl)-4H-1-benzopyran-4-one, 9CI

[77298-66-9]

C₁₅H₁₀O₄ M 254.242

Needles (EtOH). Mp 320°.

Di-Ac:

C₁₉H₁₄O₆ M 338.316

Cryst. (EtOH aq.). Mp 105°.

7-O- β -D-Glucopyranoside: [140187-26-4]. **Macrophylliside†**

C₂₁H₂₀O₉ M 416.384

Isol. from *Primula macrophylla*. Cryst. Mp 66-67°.

7-Me ether: [32272-22-3]. 2'-Hydroxy-7-methoxyflavone

C₁₆H₁₂O₄ M 268.268

Cryst. (EtOH). Mp 253-254°, Mp 290-293°.

Di-Me ether: [62536-78-1]. 2',7-Dimethoxyflavone

C₁₇H₁₄O₄ M 282.295

Cryst. (EtOH). Mp 176-177°.

Gallagher, K.M. *et al*, *J. Chem. Soc.*, 1953, 3770 (synth)

Ahmad, V.U. *et al*, *Phytochemistry*, 1991, **30**, 4206 (Macrophylliside)

7,8-Dihydroxyflavone**D-10165***7,8-Dihydroxy-2-phenyl-4H-1-benzopyran-4-one, 9CI*

[38183-03-8]

 $C_{15}H_{10}O_4$ M 254.242

Yellow needles (EtOH aq.). Mp 246° (239°).

Di-Ac: $C_{19}H_{14}O_6$ M 338.316

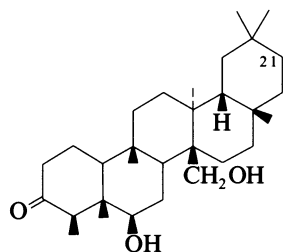
Needles (EtOH). Mp 201°.

7-Me ether: 8-Hydroxy-7-methoxyflavone $C_{16}H_{12}O_4$ M 268.268

Yellow prisms (EtOH). Mp 227°.

Di-Me ether: [65548-54-1]. 7,8-Dimethoxyflavone $C_{17}H_{14}O_4$ M 282.295Constit. of the leaves of *Godmania aesculifolia*. Needles (EtOH). Mp 151-152°.Venkataraman, K., *J. Chem. Soc.*, 1929, 2219 (*synth*)Baker, W., *J. Chem. Soc.*, 1939, 956 (*synth*)Aronoff, S., *J. Org. Chem.*, 1940, 5, 561 (*uv*)Téoule, R. *et al*, *Bull. Soc. Chim. Fr.*, 1961, 3, 546 (*synth, uv*)Prasunamba, K.L. *et al*, *Indian J. Chem., Sect. B*, 1977, 15, 929 (*synth*)Cushman, M. *et al*, *Tetrahedron Lett.*, 1990, 31, 6497 (*synth*)Stermitz, F.R. *et al*, *Biochem. Syst. Ecol.*, 1992, 20, 481 (*isol, deriv*)**6,26-Dihydroxy-3-friedelanone****D-10166**

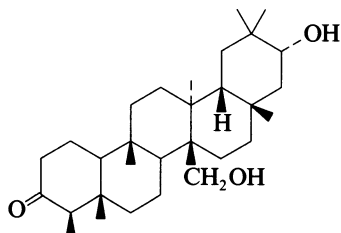
Updated Entry replacing D-01909

 $C_{30}H_{50}O_3$ M 458.723

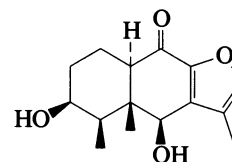
Struct. revised in 1993 (formerly assigned as 6,27-dihydroxy).

6 β -form [78835-10-6] KokzeylanolConstit. of *Kokoona zeylanica*. Cryst. Mp 282-284°. [α]_D –0.8°.*21-Oxo: [78835-09-3]. 6,26-Dihydroxy-3,21-friedelanedione.***Kokzeylanonol** $C_{30}H_{48}O_4$ M 472.707Constit. of *K. zeylanica*. Cryst. Mp 314-316°. [α]_D +86.8°. Struct. revised in 1993.Gunatilaka, A.A.L. *et al*, *Tetrahedron*, 1984, 40, 805; 1993, 49, 10397.**21,26-Dihydroxy-3-friedelanone****D-10167**

Updated Entry replacing D-01910

 $C_{30}H_{50}O_3$ M 458.723

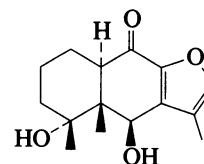
Structs. revised in 1993.

21 α -form [72183-91-6] KokoondiolConstit. of *Salacia reticulata* var. *diandra* and *Kokoona zeylanica*. Cryst. (pet. ether). Mp 271-273°. [α]_D²⁷ –29° (CHCl₃), [α]_D +18.0° (CHCl₃). Gunatilaka *et al* (1983) give both positive and negative opt. rotns. for Kokoondiol.*21-Ketone: [72183-90-5]. 26-Hydroxy-3,21-friedelanedione.***Kokoanonol** $C_{30}H_{48}O_3$ M 456.707Isol. from *K. zeylanica*. Mp >325°. [α]_D +100.0° (CHCl₃).*21-Deoxy: [72183-92-7]. 26-Hydroxy-3-friedelanone.***Kokoanol** $C_{30}H_{50}O_2$ M 442.724Isol. from *K. zeylanica*. Mp 272°. [α]_D –28.5° (CHCl₃).*21-Deoxy, 27-aldehyde: 3-Oxo-27-friedelanal. Kokoanal* $C_{30}H_{48}O_2$ M 440.708Constit. of *Caloncoba glauca*. Amorph. Mp 252-253°. [α]_D –2° (c, 0.1 in CHCl₃).**21 β -form****Epikokoondiol**Constit. of *Salacia reticulata*. Cryst. Mp 269-270°. [α]_D²⁵ –28° (c, 1.1 in CHCl₃).Gunatilaka, A.A.L. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1983, 2459 (*isol*)Kumar, V. *et al*, *Phytochemistry*, 1985, 24, 2067 (*isol*)Giner, R.M. *et al*, *Phytochemistry*, 1993, 33, 237 (*Kokoanal*)Gunatilaka, A.A.L. *et al*, *Tetrahedron*, 1993, 49, 10397 (*struct*)**3,6-Dihydroxyfuranoremphilan-9-one****D-10168** $C_{15}H_{20}O_4$ M 264.321**(3 β ,6 β ,10 α)-form***3,6-Bis(2-methyl-2-propenoyl): [68773-75-1].* $C_{23}H_{28}O_6$ M 400.471Constit. of *Euryops* spp.*3-(2-Methyl-2-propenoyl), 6-angeloyl: [68773-77-3].* $C_{24}H_{30}O_6$ M 414.497Constit. of *E. spp.**3-(2-Methyl-2-propenoyl), 6-tigloyl: [68773-76-2].* $C_{24}H_{30}O_6$ M 414.497Constit. of *E. spp.**6-(2,3-Epoxy-2-methylbutanoyl), 3-Ac:* $C_{22}H_{28}O_7$ M 404.459Constit. of *E. spp.* Oil. [α]_D²⁴ –10.2° (c, 1.27 in CHCl₃).

[59806-48-3]

Bohlmann, F. *et al*, *Phytochemistry*, 1978, 17, 1135 (*isol, pmr, cmr*)**4,6-Dihydroxyfuranoremphilan-9-one****D-10169**

Updated Entry replacing D-01917

4,6-Dihydroxy-9-oxofuranoremphilane

C₁₅H₂₀O₄ M 264.321**(4 α ,6 β ,10 α H)-form**

6-(Methylpropanoyl): [53820-31-8].

C₁₉H₂₆O₅ M 334.411Constit. of *Euryops hebecarpus*. Cryst. (Et₂O/pet. ether). Mp 208°.

6-Tigloyl: [53820-42-1].

C₂₀H₂₆O₅ M 346.422Constit. of *E. virgineus*. Cryst. Mp 242°.

6-Angeloyl: [53820-27-2].

C₂₀H₂₆O₅ M 346.422Constit. of *E. hebecarpus*. Cryst. (Et₂O/pet. ether). Mp 214°. [α]_D²⁴ –9.8° (c, 0.1 in CHCl₃).

6-(2-Methylbutanoyl):

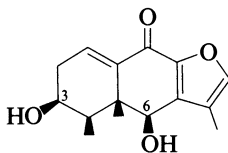
C₂₀H₂₈O₅ M 348.438Constit. of *E. spp.* Cryst. (Et₂O/pet. ether). Mp 153°.

6-(2,3-Epoxy-2-methylbutanoyl):

C₂₀H₂₆O₆ M 362.422Constit. of *E. spp.* Cryst. (Et₂O/pet. ether). Mp 193°. [α]_D²⁴ –58.1° (c, 0.52 in CHCl₃).Bohlmann, F. et al, *Chem. Ber.*, 1974, **107**, 2730.Bohlmann, F. et al, *Phytochemistry*, 1978, **17**, 1135 (*isol, pmr*)**3,6-Dihydroxyfuranoeremophil-1(10)-en-9-one D-10170**

Updated Entry replacing D-01919

3,6-Dihydroxy-9-oxoeryopsin

C₁₅H₁₈O₄ M 262.305**(3 β ,6 β)-form**

6-(Methylpropanoyl): [53987-94-3].

C₁₉H₂₂O₅ M 330.380From *Euryops spathaceus*. Cryst. (Et₂O/pet. ether). Mp 145.5°.

6-Angeloyl: [53820-51-2].

C₂₀H₂₄O₅ M 344.407Constit. of *E. spathaceus*. Cryst. (Et₂O/pet. ether). Mp 151°.

3,6-Bis(methylpropanoyl): [53820-70-5].

C₂₃H₂₆O₆ M 398.455Constit. of *E. spathaceus*. Oil.

3,6-Diangeloyl:

C₂₅H₃₀O₆ M 426.508Constit. of *E. spathaceus*. Oil.

3-Angeloyl, 6-(methylpropanoyl):

C₂₄H₂₈O₅ M 396.482Constit. of *E. spathaceus*. Oil.

6-Angeloyl, 3-(methylpropanoyl):

C₂₄H₂₈O₅ M 396.482Constit. of *E. spathaceus*. Oil.

6-(2,3-Epoxy-2-methylbutanoyl):

C₂₀H₂₄O₆ M 360.406Constit. of *E. spp.* Cryst. (Et₂O/pet. ether). Mp 151.5°.[α]_D²⁴ +8.7° (c, 0.39 in CHCl₃).

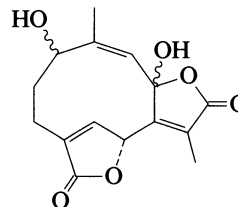
3-Angeloyl, 6-(2-methylpropanoyl):

C₂₄H₃₀O₆ M 414.497Constit. of *E. spp.* Oil.

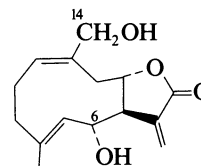
3-Angeloyl, 6-propanoyl:

C₂₃H₂₈O₆ M 400.471Constit. of *E. spp.* Oil.

3,6-Dipropanoyl:

C₂₁H₂₆O₆ M 374.433Constit. of *E. spp.* Oil.Bohlmann, F. et al, *Chem. Ber.*, 1972, **105**, 3523; 1974, **107**, 2730 (*isol, struct*)Bohlmann, F. et al, *Phytochemistry*, 1978, **17**, 1135 (*isol, pmr*)**1,8-Dihydroxy-4,7(11),9-germacatriene-12,8:15,6-diolide D-10171**C₁₅H₁₆O₆ M 292.288**(1 ξ ,6 α ,8 ξ ,9Z)-form**1-Ac: [145940-30-3]. *Acutotrinol*C₁₇H₁₈O₇ M 334.325Constit. of *Neolitsea acutotrinerva*. Plates (Me₂CO/hexane). Mp 232-234°.Li, W.-S. et al, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1614 (*isol, pmr, cmr*)**6,14-Dihydroxy-1(10),4,11(13)-germacatrien-12,8-olide D-10172**

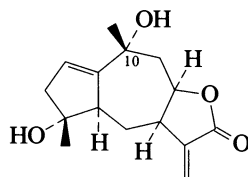
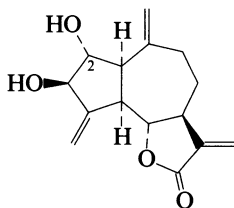
Updated Entry replacing D-01962

(1(10)*E*,4*E*,6 α ,8 α)-formC₁₅H₂₀O₄ M 264.321**(1(10)*E*,4*E*,6 α ,8 α)-form**6-Ac: [88861-90-9]. *Soulangianolide B*C₁₇H₂₂O₅ M 306.358Isol. from a *Magnolia* sp. Oil. [α]_D –63° (c, 0.53 in MeOH).11 β ,13-Dihydro: [127054-49-3]. **6 α ,14-Dihydroxy-1(10)*E*,4*E*-germacradien-12,8 α -olide**Isol. from *Schkuhria pinnata*. Oil.11 β ,13-Dihydro, 14-aldehyde: [127072-56-4]. **6 α -Hydroxy-14-oxo-1(10)*E*,4*E*-germacradien-12,8 α -olide**C₁₅H₂₀O₄ M 264.321From *S. pinnata*. Oil.**(1(10)*Z*,4*E*,6 α ,8 β)-form**14-(2-Methylpropanoyl): [87441-79-0]. *Schkuhrioidin*C₁₉H₂₆O₅ M 334.411Constit. of *Schkuhria schkuhrioides*. Pale-yellow oil. [α]_D²⁰ +86.5° (MeOH).14-Aldehyde: [73675-60-2]. 6-Hydroxy-14-oxo-1(10),4,11(13)-germacatrien-12,8-olide. *Schkuhriolide*C₁₅H₁₈O₄ M 262.305Constit. of *Schkuhria schkuhrioides*. Mp 155-157°. [α]_D²⁰ +84.6° (c, 0.52 in MeOH).**(1(10)*Z*,4*E*,6 α ,8 α)-form**

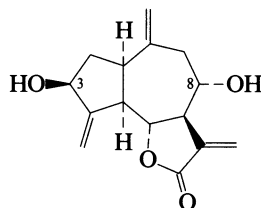
14-(2-Hydroxymethylpropanoyl): [114927-44-5].

*Gochnatolide*C₁₉H₂₄O₆ M 348.395Constit. of *Gochnatia hypoleuca*. Cryst.(Me₂CO/hexane). Mp 107-109°. [α]_D²⁵ +8.89° (c, 0.169 in CHCl₃).

[85081-10-3, 114915-87-6, 114927-45-6]

Samek, Z. *et al.*, *Z. Chem.*, 1979, **19**, 449 (*Schkuhriolide*)Rychlewska, U., *J. Chem. Soc., Perkin Trans. 2*, 1982, 1641 (*cryst struct, Schkuhriolide*)Romo de Vivar, A. *et al.*, *Phytochemistry*, 1982, **21**, 2905 (*Schkuhrioidin*)El-Feraly, F.S., *Phytochemistry*, 1983, **22**, 2239 (*Soulangianolide B*)Maldonado, E. *et al.*, *Phytochemistry*, 1988, **27**, 861 (*Gochnatolide*)Ganzer, U. *et al.*, *Phytochemistry*, 1990, **29**, 535 (*isol, pmr, derivs*)**4,10-Dihydroxy-1,11(13)-guaiadien-12,8-olide** **D-10173***(4 α OH,5 α ,8 β ,10 α OH)-form* $C_{15}H_{20}O_4$ M 264.321*(4 α OH,5 α ,8 β ,10 α OH)-form*Constit. of *Jasonia candicans*. $[\alpha]_D^{20} - 280.6^\circ$ (c, 1.8 in $CHCl_3$).*(4 α OH,5 α ,8 β ,10 β OH)-form*Constit. of *J. candicans*. $[\alpha]_D^{20} + 266.7^\circ$ (c, 0.03 in $CDCl_3$).Ahmed, A.A. *et al.*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1276 (*isol, pmr, cmr, cryst struct*)**2,3-Dihydroxy-4(15),10(14),11(13)-guaiatrien-12,6-olide** **D-10174** $C_{15}H_{18}O_4$ M 262.305*(1 α ,2 α ,3 β ,5 α ,6 α)-form**2-(2-Methylpropanoyl)*: [146959-86-6]. **Cebellin O** $C_{19}H_{24}O_5$ M 332.396Constit. of *Centaurea bella*. Oil. $[\alpha]_D^{25} + 24.3^\circ$ (c, 0.17 in $CHCl_3$).Daniewski, W.M. *et al.*, *Phytochemistry*, 1993, **32**, 204.**3,8-Dihydroxy-4(15),10(14),11(13)-guaiatrien-12,6-olide** **D-10175**

Updated Entry replacing D-02004

*(1 α ,3 β ,5 α ,6 α ,8 α)-form* $C_{15}H_{18}O_4$ M 262.305*(1 α ,3 β ,5 α ,6 α ,8 α)-form* [31565-50-1] **8-Hydroxyzaluzanin C. Eleganin†**Constit. of *Amberboa muricata*. Cryst. Mp 150-151.5°. $[\alpha]_D^{20} + 119.7^\circ$. The name Eleganin is unchecked and may refer to Integrifolin below; its description in CA is defective.*8-(3-Methyl-2-butenoyl)*: $C_{20}H_{24}O_5$ M 344.407Constit. of *Pseudostiffia kingii*. Gum. $[\alpha]_D^{24} + 32^\circ$ (c, 0.2 in $CHCl_3$).*8-(4-Hydroxy-3-methyl-2-butenoyl)*: $C_{20}H_{24}O_6$ M 360.406Constit. of *P. kingii*. Gum. $[\alpha]_D^{24} + 22^\circ$ (c, 0.25 in $CHCl_3$).*8-(2-Hydroxymethylpropenoyl)*: [35730-78-0]. **Cynaropicrin** $C_{19}H_{22}O_6$ M 346.379Constit. of *Cynara scolymus*. Noncryst. $[\alpha]_D^{20} + 108.6^\circ$.*8-(3-Chloro-2-hydroxy-2-methylpropanoyl)*: [66761-09-9].**Linichlorin B** $C_{19}H_{23}ClO_6$ M 382.840Constit. of *Centaurea linifolia*. Cryst. (EtOAc/pet. ether). Mp 144-146°. $[\alpha]_D + 95^\circ$ (c, 0.5 in $CHCl_3$).*Di-Ac*: [71305-80-1]. **8 α -Acetoxyzaluzanin D** $C_{19}H_{22}O_6$ M 346.379Constit. of *C. conicum*. Oil. $[\alpha]_D + 174^\circ$ (c, 2.3 in $CHCl_3$).*3-O- β -D-Glucopyranoside*: [100228-50-0]. **Crepiside E** $C_{21}H_{28}O_9$ M 424.447Constit. of *Crepis japonica*. Amorph. powder. $[\alpha]_D + 12.9^\circ$ (c, 0.62 in MeOH).*8-O-(4-Hydroxyphenylacetyl), 3-O- β -D-glucopyranoside*:[100187-60-8]. **Crepiside G** $C_{29}H_{34}O_{11}$ M 558.581Constit. of *C. japonica*. Amorph. powder. $[\alpha]_D^{20} + 41.3^\circ$ (c, 0.40 in MeOH).*3-O-(6-O-p-Hydroxyphenylacetyl- β -D-glucopyranoside)*:[100228-49-7]. **Crepiside H** $C_{29}H_{34}O_{11}$ M 558.581Constit. of *C. japonica*. Amorph. powder. $[\alpha]_D + 22.9^\circ$ (c, 0.83 in MeOH).*8-Ac*: [71305-81-2]. **8 α -Acetoxyzaluzanin C** $C_{17}H_{20}O_5$ M 304.342Constit. of *Conocephalum conicum*. Oil.*8-(2-Methylpropanoyl)*: [68370-46-7]. **Aguerin A** $C_{19}H_{24}O_5$ M 332.396Constit. of *Centaurea canariensis* and *C. linifolia*. Oil. $[\alpha]_D + 89^\circ$ (c, 0.14 in $CHCl_3$).*8-(2-Methylpropenoyl)*: [68370-45-6]. **Aguerin B** $C_{19}H_{22}O_5$ M 330.380Constit. of *Centaurea* spp. Oil. $[\alpha]_D + 96^\circ$ (c, 0.17 in $CHCl_3$).*3-Ketone, 8-Hydroxy-3-oxo-4(15),10(14),11(13)-guaiatrien-**12,6-olide. 8 α -Hydroxydehydrozaluzanin C* $C_{15}H_{16}O_4$ M 260.289Constit. of *P. kingii*, *Vernonia arkansana* and *V. profuga*. Cryst. (MeOH). Mp 191°. $[\alpha]_D^{24} + 118^\circ$ (c, 0.3 in $CHCl_3$).*3-Ketone, 11 β ,13-dihydro: 8-Hydroxy-3-oxo-4(15),10(14)-**guaiadien-12,6-olide* $C_{15}H_{18}O_4$ M 262.305Constit. of *P. kingii* and *V. noveboracensis*. Cryst. (Et₂O/pet. ether). Mp 168°. $[\alpha]_D^{24} + 169.5^\circ$ (c, 0.57 in $CHCl_3$).*3-Ketone, 8-O-(2-hydroxymethylpropenoyl)*: [35821-02-4].**Dehydrocyanaropicrin** $C_{19}H_{20}O_6$ M 344.363Constit. of *Cynara scolymus*. Cryst. Mp 126°. $[\alpha]_D^{20} + 60^\circ$.

4 β ,11 β ,13,15-Tetrahydro: see 3,8-Dihydroxy-10(14)-guaian-12,6-olide, D-02017

3-(2-Hydroxymethylpropenoyl):

C₁₉H₂₂O₆ M 346.379

Constit. of *Brachylaena perrieri*. [α]_D²⁴ +135° (c, 0.37 in CHCl₃).

3,8-Bis-(2-hydroxymethylpropenoyl):

C₂₃H₂₆O₈ M 430.454

Constit. of *B. perrieri*. [α]_D²⁴ +128° (c, 1.73 in CHCl₃).

8-(3-Hydroxy-2-methylpropenoyl):

C₁₉H₂₄O₆ M 348.395

Constit. of *Centaurea pabotii*. Cryst. (Et₂O/MeOH). Mp 98-99°. [α]_D +105° (c, 9.3 in CHCl₃).

8-(2,3-Epoxy-2-methylpropanoyl): **Salograviolide C**

C₁₉H₂₂O₆ M 346.379

Constit. of *Centaurea salonitana*. Cryst. Mp 140-141°. [α]_D²⁰ +89° (c, 0.54 in CHCl₃).

(1 α ,3 β ,5 α ,6 α ,8 β)-form [89647-87-0] **Integrifolin**

Constit. of *Andryala integrifolia*. Cryst. (EtOAc/pet. ether). Mp 206-208°. [α]_D –17.5° (c, 0.2 in CHCl₃).

3-Ac: [92484-33-8]. **Kandavanolide**

C₁₇H₂₀O₅ M 304.342

Constit. of *Centaurea kandavanensis*. Cryst. Mp 142.5°. [α]_D²⁴ +33.7° (c, 0.49 in CHCl₃).

3-O-(6-O-p-Hydroxyphenylacetyl- β -D-glucopyranoside):

[100187-59-5]. **Crepiside I**

C₂₉H₃₄O₁₁ M 558.581

Constit. of *Crepis japonica*. Amorph. powder. [α]_D²⁹ –22.6° (c, 0.31 in MeOH).

8-O-[2-Hydroxy-3-(p-hydroxyphenyl)propanoyl], 3-O- β -D-glucopyranoside: [124960-89-0]. **Tectoroside**

C₃₀H₃₆O₁₂ M 588.607

Constit. of *Crepis tectorum*. Oil.

3-O- β -D-Glucopyranoside, 8-(4-hydroxyphenylacetyl):

[132341-19-6]. **Ixeriside A**

C₂₉H₃₄O₁₁ M 558.581

Constit. of *Ixeris debilis*. Amorph. powder. [α]_D²¹ –40.6° (c, 0.16 in MeOH).

4 β ,15-Dihydro, 3-O- β -D-glucopyranoside, 8-[2-hydroxy-3-(4-hydroxyphenyl)propanoyl]: [132282-40-7]. **Ixeriside B**

C₃₀H₃₈O₁₂ M 590.623

Constit. of *I. repens*. Amorph. powder. [α]_D²⁵ –26.9° (c, 0.46 in MeOH).

(1 ξ ,3 ξ ,5 ξ ,6 ξ ,8 ξ)-form

8-O-(2-Hydroxymethylpropenoyl): [35932-39-9]. **Saupirin**

C₁₉H₂₂O₆ M 346.379

Constit. of the flowers of *Saussurea neopulchella*. Mp 75-84°. [α]_D¹⁷ +112° (c, 1.7 in MeOH).

Chugunov, P.V. et al, *Khim. Prir. Soedin.*, 1971, 7, 727; *Chem. Nat. Compd. (Engl. Transl.)*, 706 (**Saupirin**)

Corbella, A. et al, *J. Chem. Soc., Chem. Commun.*, 1972, 386 (**Cynaropicrin**)

González, A.G. et al, *An. Quim.*, 1973, 69, 1333.

González, A.G. et al, *Can. J. Chem.*, 1978, 56, 491 (**Linichlorin B**)

Bohlmann, F. et al, *Phytochemistry*, 1978, 17, 475; 1981, 21, 2379; 1982, 21, 1171.

González, A.G. et al, *Phytochemistry*, 1978, 17, 955 (**Aguerins**)

Asakawa, Y. et al, *Phytochemistry*, 1979, 18, 285

(**Acetoxyzaluzanins**)

Massanet, G.M. et al, *Phytochemistry*, 1984, 23, 912 (**Integrifolin**)

Rustaiyan, A. et al, *Planta Med.*, 1984, 50, 363 (**Kandavanolide**)

Miyase, T. et al, *Chem. Pharm. Bull.*, 1985, 33, 4451 (**Crepisides**)

Kisiel, W. et al, *Phytochemistry*, 1989, 28, 2403 (**Tectoroside**)

Warashina, T. et al, *Phytochemistry*, 1990, 29, 3217 (**Ixerisoides**)

Zdero, C. et al, *Phytochemistry*, 1991, 30, 3810 (*isol, pmr, cmr*)

Marco, J.A. et al, *Phytochemistry*, 1992, 31, 3527 (8-(3-Hydroxy-2-methylpropanoyl))

Daniewski, W.M. et al, *Phytochemistry*, 1993, 34, 445

(**Salograviolide C**)

3,12-Dihydroxyhexadecanoic acid

D-10176

Updated Entry replacing D-02031

3,12-Dihydroxypalmitic acid. *Operculinolic acid*. *Turpetholic acid D*

[66675-73-8]

H₃C(CH₂)₃CH(OH)(CH₂)₈CH(OH)CH₂COOH

C₁₆H₃₂O₄ M 288.426

Mp 83.4°.

Me ester: [53781-47-8].

C₁₇H₃₄O₄ M 302.453

Mp 81-82°. [α]_D +0.9°.

Et ester:

C₁₈H₃₆O₄ M 316.480

Mp 72-73°.

12-O-[β -D-Glucopyranosyl-(1→3)- α -L-rhamnopyranosyl-(1→3)- β -D-glucopyranosyl-(1→3)- β -D-glucopyranoside]: [66895-64-5]. **Turpethinic acid D**

C₄₀H₇₂O₂₃ M 920.995

Isol. from Ipomoea turpethum.

12-O-[α -L-Rhamnopyranosyl-(1→6)-[α -D-glucopyranosyl-(1→4)]- α -D-glucopyranosyl-(1→4)-L-rhamnopyranosyl-(1→2)[β -D-glucopyranosyl-(1→3)]- β -D-glucopyranoside]: [34437-89-3]. **Operculinic acid**. *Operculic acid*. *Rhamnoconvulvinolic acid*

C₅₂H₉₂O₃₂ M 1229.280

Constit. of *Ipomoea operculata*. Mp 182-185°. [α]_D²⁴ –48.6° (c, 1.2 in Py).

[66965-42-2]

Shellard, E.J., *Planta Med.*, 1961, 9, 141 (*isol*)

Ciraf, E. et al, *Arch. Pharm. (Weinheim, Ger.)*, 1974, 307, 628

(*synth*)

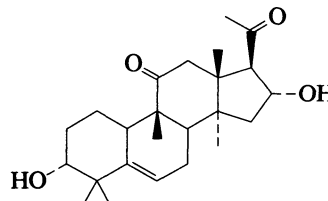
Wagner, H. et al, *Phytochemistry*, 1977, 16, 711 (*struct, Operculinic acid*)

Wagner, H. et al, *Planta Med.*, 1978, 33, 144 (*Turpethinic acid D*)

Piatak, D.M. et al, *Lipids*, 1985, 20, 903 (*synth*)

3,16-Dihydroxy-22,23,24,25,26,27-hexanorcurbit-5-ene-11,20-dione

D-10177



C₂₄H₃₆O₄ M 388.546

(3 α ,16 α)-form [149725-31-5] **Kinoin C**

Constit. of *Ibervillea sonorae*. Cryst. (CHCl₃/MeOH aq.). Mp 185-187°. [α]_D²¹ +178° (c, 0.1 in CHCl₃).

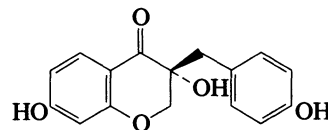
Achenbach, H. et al, *Phytochemistry*, 1993, 33, 437 (*isol, pmr, cmr*)

Weckert, E. et al, *Phytochemistry*, 1993, 33, 447 (*cryst struct, abs config*)

3,7-Dihydroxy-3-(4-hydroxybenzyl)-4-chromanone

D-10178

2,3-Dihydro-3,7-dihydroxy-3-[(4-hydroxyphenyl)methyl]-4H-1-benzopyran-4-one, 9CI. **3'-Deoxysappanone B**



C₁₆H₁₄O₅ M 286.284

(R)-form [110064-51-2]

Constit. of the heartwood of *Caesalpinia sappan*. [α]_D²⁵
+11.9° (c, 0.21 in MeOH).

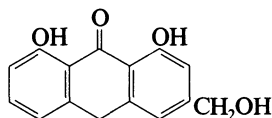
Namikoshi, M. *et al*, *Chem. Pharm. Bull.*, 1987, **35**, 3597 (*abs config*)

Namikoshi, M. *et al*, *Phytochemistry*, 1987, **26**, 1831 (*isol*)

1,8-Dihydroxy-3-(hydroxymethyl)-9(10H)-anthracenone **D-10179**

1,8-Dihydroxy-3-(hydroxymethyl)anthrone, 8CI. *Aloeemodin anthrone*. 10-Deglucosylbarbaloin

[6247-99-0]



$C_{15}H_{12}O_4$ M 256.257

Hydrol. prod. from *Cassia* spp. Yellow needles (AcOH).
Mp 199°.

O-Glucoside: [54003-19-9].

$C_{21}H_{22}O_9$ M 418.399

Constit. of *Cassia angustifolia*.

O-Diglucoside: [57077-59-5].

$C_{27}H_{32}O_{14}$ M 580.541

Constit. of *C. angustifolia*.

[57077-54-0]

Murty, V.K. *et al*, *Tetrahedron*, 1967, **23**, 515 (*synth*)

Lemli, J. *et al*, *Phytochemistry*, 1975, **14**, 1397 (*glucosides*)

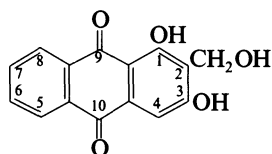
1,3-Dihydroxy-2-hydroxymethylanthraquinone **D-10180**

Updated Entry replacing D-02053

1,3-Dihydroxy-2-(hydroxymethyl)-9,10-anthracenedione, 9CI.

Lucidin†

[478-08-0]



$C_{15}H_{10}O_5$ M 270.241

Obt. from *Coprosma*, *Morinda* and *Rubia* spp. Yellow
cryst. (dioxan). Mp >330°. pK_a 8.11 (H₂O, 20°). Prob.
artifact.

▷ CB6712000.

Tri-Ac:

$C_{21}H_{16}O_8$ M 396.353

Cryst. (EtOH). Mp 175-178°.

1-Me ether: [477-83-8]. *3-Hydroxy-2-hydroxymethyl-1-methoxyanthraquinone*. **Damnacanthol**

$C_{16}H_{12}O_5$ M 284.268

Obt. from roots of *M. citrifolia*, *Damnacanthus* spp. and
bark of *Coprosma rotundifolia*. Yellow needles (EtOH).
Mp 295° (288-290°).

1,1'-Di-Me ether: *3-Hydroxy-1-methoxy-2-(methoxymethyl)anthraquinone*

$C_{17}H_{14}O_5$ M 298.295

Isol. from *M. lucida*. Prob. artifact.

1-Me, O¹-Et: [63965-57-1]. *2-Ethoxymethyl-3-hydroxy-1-methoxyanthraquinone*. **Subspinosin**

$C_{18}H_{16}O_5$ M 312.321

Isol. from *Plocama pendula* and (as Subspinosin) from
Damnacanthus subspinosus. Prob. artifact. Struct. of
Subspinosin revised in 1990.

Tri-Me ether:

$C_{18}H_{16}O_5$ M 312.321

Cryst. (EtOH). Mp 173°.

O¹-Et: [17526-17-9]. *1,3-Dihydroxy-2-(ethoxymethyl)anthraquinone*. **Ibericin**

$C_{17}H_{14}O_5$ M 298.295

Isol. from roots of *Rubia ibERICA*. Citron-yellow cryst.
(C₆H₆). Mp 182-183° dec.

▷ CB6705000.

O¹-Et, Di-Ac: Mp 163-164°.

1'-O-[3-(*Hydroxymethyl*)-7-methyloctanoyl]: [75076-73-2].

Tinctomorone

$C_{25}H_{28}O_7$ M 440.492

Isol. from the heartwood of *Morinda tinctoria*. Mp 195°.

[80565-16-8]

Agyangar, N.R. *et al*, *J. Sci. Ind. Res., Sect. B*, 1956, **15**, 359
(*synth*)

Bloom, H. *et al*, *J. Chem. Soc.*, 1959, 178 (*ir*)

Stikhin, V.A. *et al*, *Khim. Prir. Soedin.*, 1966, **2**, 12; 1967, **3**, 276;

Chem. Nat. Compd. (Engl. Transl.), 9; 230 (*Ibericin*)

Hirose, Y. *et al*, *Chem. Pharm. Bull.*, 1973, **21**, 2790 (*synth*)

Leistner, E., *Planta Med.*, (Suppl.), 1975, 214 (*biosynth*)

Briggs, L.H. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1976, 1789 (*isol, pmr*)

González, A.G. *et al*, *An. Quim.*, 1977, **73**, 869 (*isol, deriv*)

Castonguay, A. *et al*, *Can. J. Chem.*, 1977, **55**, 1324 (*deriv*)

Roberts, J.L. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1977, **30**, 1553

(*synth*)

Eswaran, V. *et al*, *Indian J. Chem., Sect. B*, 1979, **17**, 650

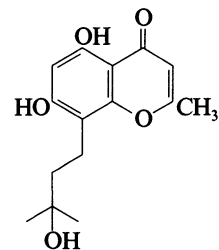
(*Tinctomorone*)

Demagos, G.P. *et al*, *Z. Naturforsch., B*, 1981, **36**, 1180 (*isol, deriv*)

Yu, J.R. *et al*, *Yaoxue Xuebao*, 1990, **25**, 173; *CA*, **113**, 231067

(*Subspinosin*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th
Ed., Van Nostrand-Reinhold, 1992, DMT200.

5,7-Dihydroxy-8-(3-hydroxy-3-methylbutyl)-2-methyl-4H-1-benzopyran-4-one **D-10181**

$C_{15}H_{18}O_5$ M 278.304

Di-Me ether: [86408-20-0]. *8-(3-Hydroxy-3-methylbutyl)-5,7-dimethoxy-2-methyl-4H-1-benzopyran-4-one*, 9CI.

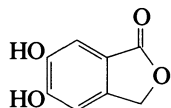
Perforatin B

$C_{17}H_{22}O_5$ M 306.358

Constit. of the roots of *Harrisonia perforata*.

Wang, M. *et al*, *Yaoxue Xuebao*, 1983, **18**, 113; *CA*, **99**, 67494.

5,6-Dihydroxy-1(3*H*)-isobenzofuranone, 9*CI*
 5,6-Dihydroxyphthalide, 8*CI*
 [53766-43-1]



$C_8H_6O_4$ M 166.133

Isol. from heartwood of *Acacia crombei*.

5-*Me ether*: 6-Hydroxy-5-methoxyphthalide

$C_9H_8O_4$ M 180.160

Needles (EtOH or H_2O). Mp 208.4-209°.

6-*Me ether*: 5-Hydroxy-6-methoxyphthalide

$C_9H_8O_4$ M 180.160

Cryst. (C_6H_6). Mp 177-177.6°.

Di-*Me ether*: [531-88-4]. 5,6-Dimethoxyphthalide.

Metameconine

$C_{10}H_{10}O_4$ M 194.187

Cryst. (butanol). Mp 156.5-157°.

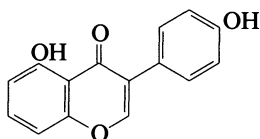
Allen, M. *et al*, *J. Org. Chem.*, 1961, **26**, 2906.

Brandt, E.V. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1981, 1879.

4',5-Dihydroxyisoflavone

D-10183

5-Hydroxy-3-(4-hydroxyphenyl)-4*H*-1-benzopyran-4-one, 9*CI*



$C_{15}H_{10}O_4$ M 254.242

4'-*Me ether*: [133086-79-0]. 5-Hydroxy-4'-methoxyisoflavone. **Pallidiflorin**

$C_{16}H_{12}O_4$ M 268.268

Isol. from the rhizome of *Glycyrrhiza pallidiflora*.

Di-*Me ether*: 4',5-Dimethoxyisoflavone

$C_{17}H_{14}O_4$ M 282.295

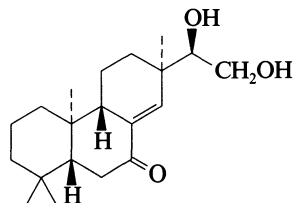
Mp 161°.

Inoue, N., *Nippon Kagaku Zasshi*, 1958, **79**, 1537.

Liu, J.H. *et al*, *Yaoxue Xuebao*, 1990, **25**, 689; *CA*, **114**, 160672 (Pallidiflorin)

15,16-Dihydroxy-8(14)-isopimaren-7-one

D-10184



$C_{20}H_{32}O_3$ M 320.471

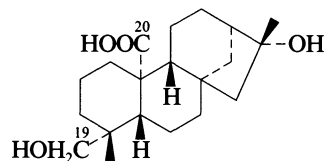
(*ent*-15*S*)-*form* [145701-02-6]

Constit. of *Calibrachoa parviflora*. Cryst. (EtOAc/heptane). Mp 164-165°. $[\alpha]_D^{25} +16^\circ$ (c, 1 in $CHCl_3$).

Elliger, C.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1477 (*isol*, *pmr*, *cmr*, *cryst struct*)

16,19-Dihydroxy-20-kauranoic acid

D-10185



$C_{20}H_{32}O_4$ M 336.470

(*ent*-16*β*)-*form*

20→19-Lactone: [149249-32-1]. *Hypodiolide A*. *ent*-16*β*-Hydroxy-20,19-kauranolid

$C_{20}H_{30}O_3$ M 318.455

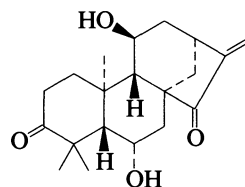
Constit. of *Tripterygium hypoglaucum* and *Ryparosa acuminata*. Needles (EtOAc/hexane). Mp 200-202° (205-206°). $[\alpha]_D^{25} -32^\circ$ (c, 0.09 in $CHCl_3$).

Zhang, L. *et al*, *Acta Pharm. Sin.*, 1993, **28**, 32 (*isol*, *pmr*, *cmr*, *cryst struct*)

Shaari, K. *et al*, *Aust. J. Chem.*, 1993, **46**, 739 (*isol*, *pmr*, *cmr*)

6,11-Dihydroxy-16-karene-3,15-dione

D-10186



$C_{20}H_{28}O_4$ M 332.439

(*ent*-6*β*,11*α*)-*form* [148225-29-0] **Inflexarabdonin I**

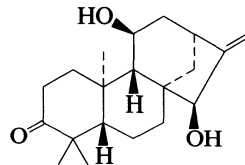
Constit. of *Rabdosia inflexa*. Needles. Mp 232-234°.

$[\alpha]_D^{25} -106.4^\circ$ (c, 0.87 in MeOH).

Takeda, Y. *et al*, *Phytochemistry*, 1993, **32**, 145 (*isol*, *pmr*, *cmr*)

11,15-Dihydroxy-16-karene-3-one

D-10187



$C_{20}H_{30}O_3$ M 318.455

(*ent*-11*α*,15*α*)-*form* [148225-30-3] **Inflexarabdonin J**

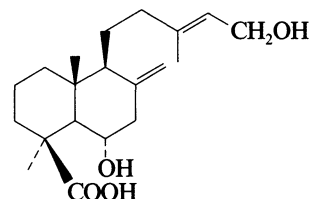
Constit. of *Rabdosia inflexa*. Amorph. powder. $[\alpha]_D^{27}$

-63.4° (c, 0.56 in MeOH).

Takeda, Y. *et al*, *Phytochemistry*, 1993, **32**, 145 (*isol*, *pmr*, *cmr*)

6,15-Dihydroxy-8(17),13-labdadien-19-oic acid

D-10188



$C_{20}H_{32}O_4$ M 336.470

(6*α*,13*E*)-*form*

19→6 Lactone, 15-O- β -D-glucopyranoside: [149182-81-0].

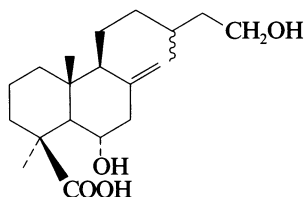
Gomojoside P

$C_{26}H_{40}O_8$ M 480.597

Constit. of *Viburnum suspensum*. Amorph. powder. $[\alpha]_D$
 -190° (c, 0.15 in MeOH).

Iwagawa, T. *et al*, *Phytochemistry*, 1993, **32**, 1515 (*isol*, *pmr*, *cmr*)

6,15-Dihydroxy-8(17)-labden-19-oic acid **D-10189**



$C_{20}H_{34}O_4$ M 338.486

(6 α ,13 ξ)-form

19 \rightarrow 6-Lactone, 15-O- β -D-glucopyranoside: [149182-82-1].

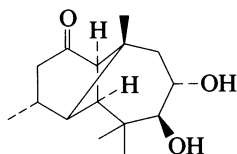
Gomojoside Q

$C_{26}H_{42}O_8$ M 482.613

Constit. of *Viburnum suspensum*. Amorph. powder. $[\alpha]_D$
 $+9.0^\circ$ (c, 0.17 in MeOH).

Iwagawa, T. *et al*, *Phytochemistry*, 1993, **32**, 1515 (*isol*, *pmr*, *cmr*)

9,10-Dihydroxy-5-longipinanone **D-10190**



$C_{15}H_{24}O_3$ M 252.353

(3 α ,9 α ,10 β)-form

Diangeloyl: [150259-04-4].

$C_{25}H_{36}O_5$ M 416.556

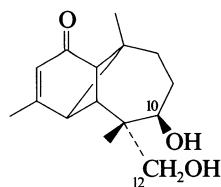
Constit. of *Stevia serrata*. Oil. $[\alpha]_D$ $+1^\circ$ (c, 0.84 in
 $CHCl_3$).

Román, L.U. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1148 (*isol*,
pmr, *cmr*)

10,12-Dihydroxy-3-longipinen-5-one **D-10191**

Updated Entry replacing D-02202

7,13-Dihydroxy-2-longipinen-1-one



$C_{15}H_{22}O_3$ M 250.337

10 β -form [100045-39-4]

Constit. of *Stevia achalensis*. Oil. $[\alpha]_D^{24}$ $+64^\circ$ (c, 0.65 in
 $CHCl_3$).

12-Angeloyl, 10-Ac: [151310-25-7].

$C_{22}H_{30}O_5$ M 374.476

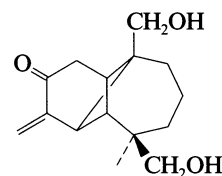
Constit. of *S. organoides*. Oil. $[\alpha]_D$ $+9^\circ$ (c, 0.2 in
 $CHCl_3$).

Bohlmann, F. *et al*, *Justus Liebigs Ann. Chem.*, 1985, 1764; 1986,
 799 (*isol*)

Cerda-García-Rojas, C.M. *et al*, *Phytochemistry*, 1993, **32**, 1219
(isol, *pmr*, *cmr*)

12,14-Dihydroxy-3(15)-longipinen-4-one **D-10192**

11,14-Dihydroxymarsupellone



$C_{15}H_{22}O_3$ M 250.337

Di-Ac:

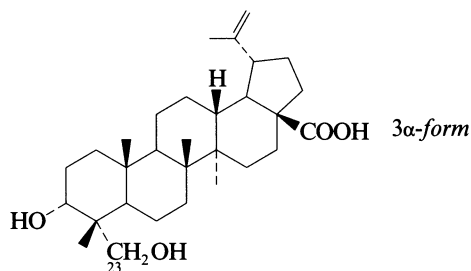
$C_{19}H_{26}O_5$ M 334.411

Constit. of *Marsupella emarginata*. Oil. $[\alpha]_D$ -37.9° (c,
 0.62 in $CHCl_3$).

Nagashima, F. *et al*, *Phytochemistry*, 1993, **33**, 1445 (*isol*, *pmr*,
cmr)

3,23-Dihydroxy-20(29)-lupen-28-oic acid **D-10193**

Updated Entry replacing D-02216



$C_{30}H_{48}O_4$ M 472.707

3 α -form

23-Carboxylic acid: [83725-39-7]. 3 α -Hydroxy-20(29)-
 lupene-23,28-dioic acid

$C_{30}H_{46}O_5$ M 486.690

Isol. from *Schefflera octophylla*. Cryst. (Me_2CO /hexane).
 Mp 260-262°. $[\alpha]_D^{25}$ -10.9° (c, 0.43 in MeOH).

3 β -form [85999-40-2] **Anemosapogenin**. 23-Hydroxybetulinic
 acid

Constit. of *Paeonia japonica*, *Anemone chinensis* and
Pulsatilla chinensis. Cryst. ($MeOH/CHCl_3$). Mp 263-
 267°. $[\alpha]_D^{21}$ $+88^\circ$ (c, 0.075 in Py).

3-O- α -L-Arabinopyranoside:

$C_{35}H_{56}O_8$ M 604.823

Constit. of *P. chinensis*. Cryst. Mp 160-165°.

3-Ketone: 23-Hydroxy-3-oxo-20(29)-lupen-28-oic acid.
Pulsatillilic acid

$C_{30}H_{46}O_4$ M 470.691

Constit. of *P. chinensis*. Cryst. Mp 214-217°.

Adam, G. *et al*, *Phytochemistry*, 1982, **21**, 1385 (*deriv*)

Liu, S. *et al*, *CA*, 1985, **103**, 113718 (*cryst struct*)

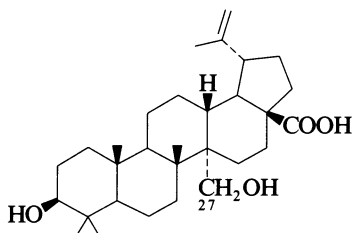
Preiss, A. *et al*, *Magn. Reson. Chem.*, 1986, **24**, 915 (*cmr*)

Ikuta, A. *et al*, *Phytochemistry*, 1988, **27**, 2813 (*isol*)

Ye, W.C. *et al*, *Chin. Chem. Lett.*, 1991, **2**, 375 (*isol*, *pmr*, *cmr*)

3,27-Dihydroxy-20(29)-lupen-28-oic acid **D-10194**

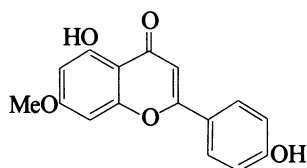
Updated Entry replacing D-02217

 $C_{30}H_{48}O_4$ M 472.707**3 β -form** [102636-98-6] **Cyclicodiscic acid**Isol. from *Cyclicodiscus gabunensis*. Cryst. powder. Mp 286° dec.*Me ester*: Cryst. (Et₂O/hexane). Mp 190°.*Di-Ac*: Cryst. (EtOAc/hexane). Mp 281-282°.3-O-[α -L-Arabinopyranosyl-(1 \rightarrow 3)- β -D-glucopyranoside]: [137553-09-4]. $C_{41}H_{66}O_{13}$ M 766.965Constit. of the bark of *C. gabunensis*. Cryst. powder (EtOAc/MeOH). $[\alpha]_D^{20} + 17^\circ$ (c, 1.2 in EtOH).3-O-[α -L-Arabinopyranosyl-(1 \rightarrow 3)- α -L-arabinopyranosyl-(1 \rightarrow 3)- β -D-glucopyranoside]: [130263-13-7].**Cyclicodiscoside** $C_{46}H_{74}O_{17}$ M 899.080Constit. of the stem bark of *C. gabunensis*. Amorph. solid.27-Carboxylic acid: [2572-03-4]. 3-Hydroxy-20(29)-lupene-27,28-dioic acid. **Melaleucic acid** $C_{30}H_{46}O_5$ M 486.690Constit. of *Melaleuca* spp. Cryst. (MeOH aq.). Mp 363-364°. $[\alpha]_D + 19^\circ$ (c, 1 in Py).3-Ketone, 27-carboxylic acid: 3-Oxo-20(29)-lupene-27,28-dioic acid. **Gouanic acid** $C_{30}H_{44}O_5$ M 484.675Constit. of *Gouania microcarpa*. Cryst. (EtOAc). Mp 305-308°.Hall, S.R. et al, *Acta Crystallogr.*, 1965, **18**, 265 (*cryst struct, Melaleucic acid*)Chopra, C.S. et al, *Tetrahedron*, 1965, **21**, 1529 (*isol*)Chopra, C.S., *CA*, 1972, **77**, 62175 (*pmr, Melaleucic acid*)Wenkert, E. et al, *Org. Magn. Reson.*, 1978, **11**, 337 (*cmr, Melaleucic acid*)Tchivounda, H.P. et al, *Phytochemistry*, 1990, **29**, 2723, 3255; 1991, **30**, 2711 (*isol, pmr, cmr*)Nair, S.P. et al, *Phytochemistry*, 1993, **33**, 711 (*Gouanic acid*)**4',5-Dihydroxy-7-methoxyflavone** **D-10195**

Updated Entry replacing D-02256

5-Hydroxy-2-(4-hydroxyphenyl)-7-methoxy-4H-1-benzopyran-4-one. **Genkwainin**. Apigenin 7-methyl ether. **Puddumetin**

[437-64-9]

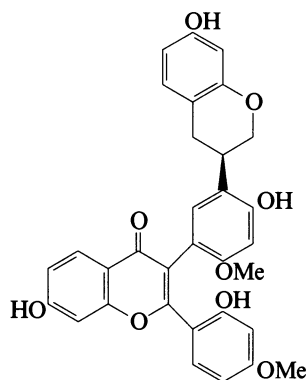
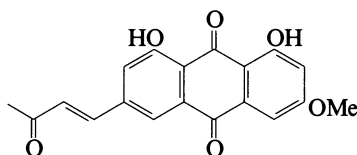
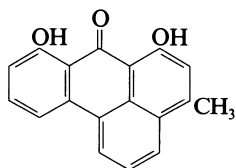
 $C_{16}H_{12}O_5$ M 284.268

Widespread flavonoid isol. from the Asteraceae, Cistaceae, Eupomataceae, Lamiaceae, Pteridaceae and Saxifragaceae. Used as EtOH soln. for analytical reactions with some metals. Yellow needles (MeOH). Mp 286°.

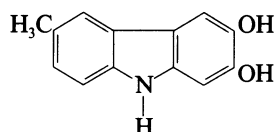
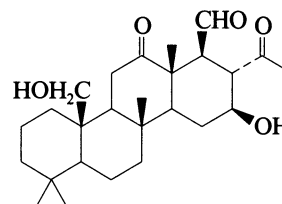
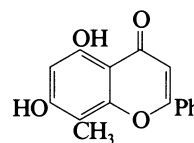
5-O- β -D-Glucopyranoside: [552-52-3]. **Glucogenkwainin** $C_{22}H_{22}O_{10}$ M 446.410Occurs in *Prunus verecunda* and *P. speciosa*. Yellow needles + 2H₂O (EtOH). Mp 273-274°.4'-O- β -D-Glucopyranoside: [20486-36-6]. **Phegopolin** $C_{22}H_{22}O_{10}$ M 446.410Constit. of leaves of *Phegopteris polypodiodes*. Yellow needles. Mp 235-236° (203-204°). $[\alpha]_D^{21} - 35.8^\circ$ (c, 0.5 in Py).4'-O-Neohesperidoside: **Fasciculatin** † $C_{28}H_{32}O_{14}$ M 592.552Constit. of *Vernonia fasciculata*. Yellow solid. Mp >300° dec.5-O-[α -D-Xylopyranosyl(1 \rightarrow 6)- β -D-glucopyranoside]: [50675-78-0]. $C_{27}H_{30}O_{14}$ M 578.526Isol. from leaves of *Ovidia pillo-pillo* and *Thymelea tartonraira*. Mp 173-175°.5-O-(α -D-Glucosyl- α -D-glucoside): **Wikstroemin** $C_{28}H_{32}O_{15}$ M 608.552Isol. from *Wikstroemia viridiflora*. Light-yellow needles. Mp 200-202°, Mp 270-272° dec. (double Mp).4'-O- β -D-Galactopyranoside: [61490-80-0]. $C_{22}H_{22}O_{10}$ M 446.410Isol. from *Cheilanthes longissima*.

4'-O-Glucosylrhamnoside: [131405-88-4].

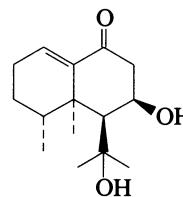
 $C_{28}H_{32}O_{14}$ M 592.552Isol. from *Asplenium normale* and *A. oligophlebium*. Pale yellow needles (MeOH aq.).5-O-(6-O-Malonyl- β -D-glucopyranoside): [130733-29-8]. $C_{25}H_{24}O_{13}$ M 532.457Isol. from *Equisetum arvense*.4'-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)- β -D-xylopyranoside]: [61470-51-7]. $C_{27}H_{30}O_{14}$ M 578.526Isol. from *C. longissima* and *Lasiosiphon eriocephalus*.5-O-[β -D-Xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]: [77099-20-8]. **Yuankanin** $C_{27}H_{30}O_{14}$ M 578.526Constit. of *Daphne genkwa* and *D. gnidium*.Mahal, H.S. et al, *J. Chem. Soc.*, 1936, 569.Narasimhachari, N. et al, *Proc. - Indian Acad. Sci., Sect. A*, 1950, **32**, 17 (*synth*)Hasegawa, M. et al, *J. Am. Chem. Soc.*, 1954, **76**, 5559 (*Glucogenkwainin*)Tseng, K.F. et al, *CA*, 1963, **59**, 15373 (*Wikstroemin*)Dawson, R.M. et al, *Aust. J. Chem.*, 1965, **18**, 1871 (*isol*)Kawano, N. et al, *Chem. Pharm. Bull.*, 1966, **14**, 299 (*synth*)Farkas, L. et al, *Chem. Ber.*, 1968, **101**, 1630 (*Phegopolin*)Korkuć, A., *Wiad. Chem.*, 1969, **23**, 345; *CA*, **71**, 56224j (*use*)Nunez-Alarcon, J. et al, *Phytochemistry*, 1973, **12**, 1451 (*5-O-Xylosylglucoside*)Sunder, R. et al, *Indian J. Chem., Sect. B*, 1976, **14**, 599 (*4'-galactoside, 4'-glucosylxyloside*)Wagner, H. et al, *Tetrahedron Lett.*, 1976, 1799 (*nmr*)Narain, N.K., *J. Chem. Soc., Perkin Trans. 1*, 1977, 1018 (*Fasciculatin*)Markham, K.R. et al, *Tetrahedron*, 1978, **34**, 1389 (*cmr*)Hauteville, M. et al, *Tetrahedron*, 1981, **37**, 377 (*synth*)Ragot, J. et al, *Fitoterapia*, 1988, **59**, 336 (*Yuankanin*)Veit, M. et al, *Phytochemistry*, 1990, **29**, 2555 (*5-(6-malonylglucoside)*)Iwashina, T. et al, *Phytochemistry*, 1990, **29**, 3543 (*4'-glucosylrhamnoside*)

**2',7-Dihydroxy-4'-methoxyflavone(3→5')-
2',7-dihydroxy-4'-methoxyisoflavan** **D-10196**C₃₂H₂₆O₉ M 554.552**(R)-form** [132586-75-5]Constit. of the heartwood of *Dalbergia odorifera*.
Amorph. powder.Ogata, T. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 2750 (*isol*)**1,8-Dihydroxy-3-methoxy-6-(3-oxo-1-
butenyl)anthraquinone** **D-10197**
[20194-62-1]C₁₉H₁₄O₆ M 338.316Constit. of *Xanthoria aureola* and *X. parietina*.Piattelli, M. *et al*, *Phytochemistry*, 1968, **7**, 1183 (*isol*)
Krivoshchekova, O.E. *et al*, *Khim. Prir. Soedin.*, 1981, **96** (*isol*)**6,8-Dihydroxy-4-methyl-7H-benz[de]
anthracen-7-one, 9CI** **D-10198**
[69911-64-4]C₁₈H₁₂O₃ M 276.291Isol. from the heartwood of *Cassia garrettiana*. Orange-
yellow powder (CHCl₃). Mp 188-192°.*Di-Ac*: [69940-11-0].

Yellow needles (EtOAc). Mp 224-225°.

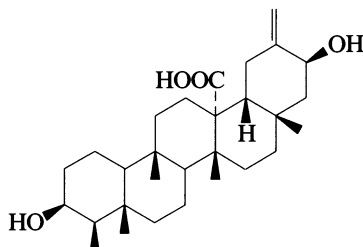
Hata, K. *et al*, *Chem. Pharm. Bull.*, 1978, **26**, 3792 (*isol*)**2,3-Dihydroxy-6-methyl-9H-carbazole
6-Methyl-9H-carbazole-2,3-diol** **D-10199**C₁₃H₁₁NO₂ M 213.235*Methylene ether*: 6-Methyl-2,3-methylenedioxy-carbazole.**Clausenale**C₁₄H₁₁NO₂ M 225.246Alkaloid from the stem bark of *Clausena heptaphylla*
(Rutaceae). Needles (C₆H₆/pet. ether). Mp 224-225° dec.Bhattacharyya, P. *et al*, *Phytochemistry*, 1993, **33**, 248 (*isol*, *uv*, *ir*,
pmr, *cmr*, *synth*, *struct*)**16,22-Dihydroxy-24-methyl-12,24-dioxo-
25-scalaranal** **D-10200**C₂₆H₄₀O₅ M 432.599**16β-form***Di-Ac*: [75605-87-7].C₃₀H₄₄O₇ M 516.673Constit. of a *Phyllospongia* sp. Needles (Et₂O). Mp
107.2-108.6°. [α]_D²¹ +132.2° (c, 1.15 in CHCl₃).Kazlauskas, R. *et al*, *Aust. J. Chem.*, 1980, **33**, 1783 (*isol*, *pmr*)**5,7-Dihydroxy-8-methylflavone** **D-10201**
5,7-Dihydroxy-8-methyl-2-phenyl-4H-1-benzopyran-4-one,
9CI. **Cryptochrysin**. *8-Methylchrysin*
[55969-56-7]C₁₆H₁₂O₄ M 268.268Isol. from the heartwood of *Pinus morrisonicola*. Yellow
cryst. (MeOH or EtOAc). Mp 255-256°.*Di-Me ether*: [14004-47-8], *5,7-Dimethoxy-8-methylflavone*C₁₈H₁₆O₄ M 296.322

Cryst. (EtOH). Mp 230-231°.

Aknin, J. *et al*, *Bull. Soc. Chim. Fr.*, 1963, 604 (*synth*)Beirne, J.J. *et al*, *Tetrahedron*, 1975, **31**, 265 (*synth*)Fang, J.M. *et al*, *Phytochemistry*, 1987, **26**, 2559 (*isol*)**7,11-Dihydroxy-1(10)-nardosinen-9-one** **D-10202**C₁₅H₂₄O₃ M 252.353**7β-form** [20489-11-6] **Nardosinonediol**Constit. of *Nardostachys chinensis*. Cryst. (MeOH aq.).Mp 141-143°. [α]_D²⁰ +15.8° (c, 2.06 in EtOH), [α]_D -1.7°(c, 0.95 in MeOH). No explanation given for
discrepancy in optical rotations.Rücker, G. *et al*, *Chem. Ber.*, 1969, **102**, 2691, 2707 (*synth*, *pmr*)Dyck, E. *et al*, *Phytochemistry*, 1974, **13**, 1907 (*isol*)

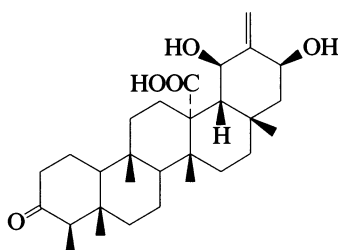
Hikino, H. *et al*, *Phytochemistry*, 1988, **27**, 3667 (*isol*, *cmr*)
 Itokawa, H. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 1183 (*isol*, *pmr*,
cmr)

3,21-Dihydroxy-30-nor-27-friedelanoic acid **D-10203**



$C_{29}H_{46}O_4$ M 458.680
(3 β ,21 β)-form [148963-42-2]
 Constit. of *Caloncoba glauca*. Amorph. Mp 218-219°.
 $[\alpha]_D^{25} + 17^\circ$ (c, 0.1 in $CHCl_3$).
 Giner, R.M. *et al*, *Phytochemistry*, 1993, **32**, 237 (*isol*, *pmr*, *cmr*)

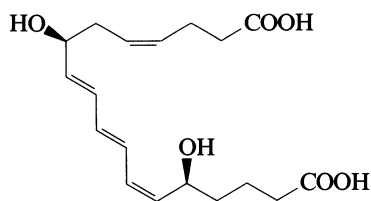
19,21-Dihydroxy-30-nor-3-oxo-20(29)-friedelen-27-oic acid **D-10204**



$C_{29}H_{44}O_5$ M 472.664
(19 β ,21 β)-form
Me ester:
 $C_{30}H_{46}O_5$ M 486.690
 Constit. of *Phyllobotryon spathulatum*. Gum. $[\alpha]_D^{25} + 15^\circ$
 (c, 0.1 in MeOH).
 Gibbons, S. *et al*, *Phytochemistry*, 1993, **34**, 273 (*isol*, *pmr*, *cmr*)

7,14-Dihydroxy-4,8,10,12-octadecatetraenedioic acid **D-10205**

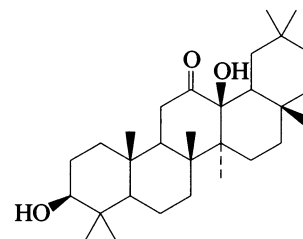
18-Carboxy-19,20-dinor LTB_4 , 18-Carboxyleukotriene B_4
 [102674-12-4]



$C_{18}H_{26}O_6$ M 338.400
 Formed in hepatocyte metab. of LTB_4 (see 5,12-Dihydroxy-6,8,10,14-eicosatetraenoic acid, D-01783).
 Harper, T.W. *et al*, *J. Biol. Chem.*, 1986, **261**, 5414 (*biosynth*)
 Jedlitschky, G. *et al*, *J. Biol. Chem.*, 1991, **266**, 24763 (*biosynth*)

3,13-Dihydroxy-12-oleananone

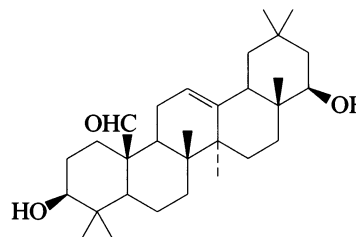
D-10206



$C_{30}H_{50}O_3$ M 458.723
(3 β ,13 β)-form
 3-Ac: [125263-66-3]. **Rubiprasin B**
 $C_{32}H_{52}O_4$ M 500.760
 Constit. of *Rubia cordifolia* var. *pratensis*. Needles
 ($CHCl_3$). Mp 277-280°.
 Itokawa, H. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 1670 (*isol*, *pmr*,
cmr)

3,22-Dihydroxy-12-oleanen-25-al

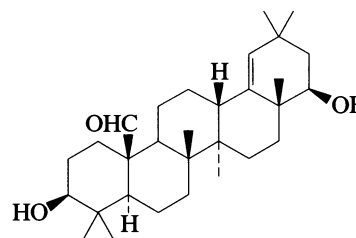
D-10207



$C_{30}H_{48}O_3$ M 456.707
(3 β ,22 β)-form
 3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-xylopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside]: [135545-89-0]. **Periandr dulcin B**
 $C_{47}H_{74}O_{17}$ M 911.091
 Constit. of the roots of *Periandra dulcis*.
 Phosphodiesterase inhibitor. Powder. Mp 225-227° dec.
 $[\alpha]_D^{25} + 12.0^\circ$ (c, 1 in MeOH).
 Ikeda, Y. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 566.

3,22-Dihydroxy-18-oleanen-25-al

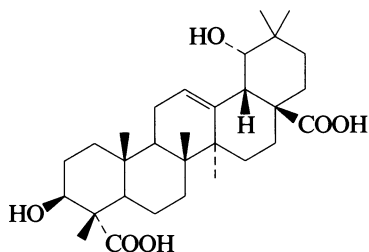
D-10208



$C_{30}H_{48}O_3$ M 456.707
(3 β ,22 β)-form
 3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside]: [135545-90-3]. **Periandr dulcin C**
 $C_{48}H_{76}O_{18}$ M 941.118
 Constit. of the roots of *Periandra dulcis*.
 Phosphodiesterase inhibitor. Pale brown powder +
 $1H_2O$. Mp 205-210° dec. $[\alpha]_D^{25} - 17.4^\circ$ (c, 0.5 in Py).
 Ikeda, Y. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 566 (*isol*)

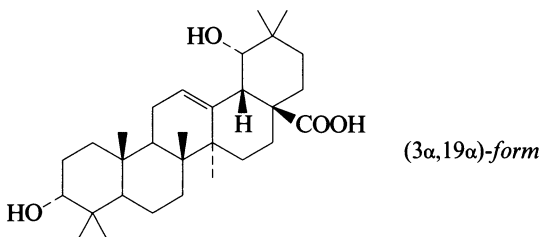
3,19-Dihydroxy-12-oleanene-18,23-dioic acid

D-10209

 $C_{30}H_{46}O_6$ M 502.690**(3β,19α)-form*****Ilexic acid B***Constit. of *Ilex rotunda*. Needles (EtOH). Mp > 340°. $[\alpha]_D^{25} + 155^\circ$ (c, 3 in MeOH).Amimoto, K. et al, *Phytochemistry*, 1993, **33**, 1475 (isol, pmr, cmr)**3,19-Dihydroxy-12-oleanen-28-oic acid**

D-10210

Updated Entry replacing D-02451

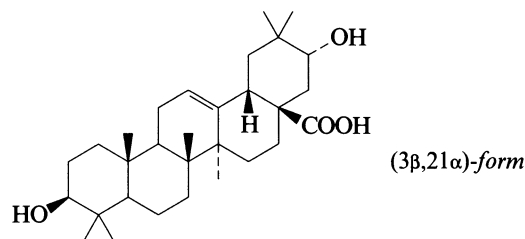
 $C_{30}H_{48}O_4$ M 472.707**(3α,19α)-form** [56586-60-8] **3-Episiarresinolic acid**Constit. of *Gardenia latifolia*.3-Ac: Mp 266-268°. $[\alpha]_D^{25} + 13.6^\circ$ (CHCl₃).**(3β,19α)-form** [511-77-3] **Siaresinolic acid**. *Siaresinol*Isol. from Siam benzoin (siamese gum) and from *Osteospermum corymbosum* and *G. latifolia*. Cryst. (MeOH/Et₂O). Mp 274-275°. $[\alpha]_D^{24} + 98.5^\circ$ (EtOH).*Me ester*: Cryst. Mp 198-200°.3-O-β-D-Xylopyranoside: [108529-23-3]. ***Ilexoside A*** $C_{35}H_{56}O_8$ M 604.823Constit. of leaves of *Ilex chinensis*. Cryst. (MeOH). Mp 264-267°. $[\alpha]_D^{25} + 7.8^\circ$ (c, 0.20 in MeOH).3-Ac: [125263-67-4]. ***Rubiprasin C*** $C_{32}H_{50}O_5$ M 514.744Constit. of *Rubia cordifolia* var. *pratensis*. Needles (CHCl₃). Mp 171-173°.3-Ketone: **19-Hydroxy-3-oxo-12-oleanen-28-oic acid** $C_{30}H_{46}O_4$ M 470.691Constit. of *O. corymbosum*. Mp 187-190° (as Me ester).**(3β,19β)-form** [32205-23-5] ***Spinolic acid A***Constit. of *Randia spinosa*, *Couepia paraensis* and *G. latifolia*. Cryst. (CHCl₃/MeOH). Mp 270-272°. $[\alpha]_D^{25} + 12.5^\circ$ (c, 0.42 in CHCl₃).Barton, D.H.R. et al, *J. Chem. Soc.*, 1952, 78 (struct)Tursch, B. et al, *Bull. Soc. Chim. Belg.*, 1966, **75**, 107 (pmr)Aplin, R.T. et al, *J. Chem. Soc. C*, 1971, 1067 (*Spinolic acid A*)Doddrell, D.M. et al, *Tetrahedron Lett.*, 1974, 2381 (cmr)Reddy, G.C.S. et al, *Indian J. Chem.*, 1975, **13**, 749 (isol)Inada, A. et al, *Chem. Pharm. Bull.*, 1987, **35**, 841 (*Ilexoside A*)Jakupovic, J. et al, *Phytochemistry*, 1988, **27**, 2881 (isol)Itokawa, H. et al, *Chem. Pharm. Bull.*, 1989, **37**, 1670 (*Rubiprasin C*)

C)

3,21-Dihydroxy-12-oleanen-28-oic acid

D-10211

Updated Entry replacing D-02452

 $C_{30}H_{48}O_4$ M 472.707**(3β,21α)-form** [53492-07-2]Isol. from *Amaracus dictamnus* and *Olox dissitiflora*.**(3β,21β)-form** [25763-71-7] ***Machaerimic acid***. *Proceric acid*Constit. of *Machaerocereus gummosus* and of *Albizzia* spp., *Enterolobium contortisiliquum* and others.*Me ester*: [6089-94-7].Cryst. (MeOH). Mp 234-236°. $[\alpha]_D^{31} + 76^\circ$ (CHCl₃).*Et ester*: [15486-27-8]. $C_{32}H_{52}O_4$ M 500.760

Mp 245-247°.

3-O-[α-L-Arabinopyranosyl-(1→2)-β-D-glucuronopyranoside], 28-O-β-D-glucopyranosyl ester: [117804-15-6].

Cynarasaponin J $C_{47}H_{74}O_{19}$ M 943.090Constit. of *Cynara cardunculus*. Powder + 2H₂O (as Me ester). $[\alpha]_D^{25} + 15.6^\circ$ (c, 0.95 in MeOH)(Me ester).*Glycoside*: [12789-49-0]. ***Proceranin A***Isol. from seeds of *Albizzia procera*. Hygroscopicpowder. Mp 180-182°. $[\alpha]_D^{25} - 19.1^\circ$. Gives Glc, Gal, Ara, Xyl, Fuc, Rha 4:1:1:1:1:2 on hydrol.

21-Cinnamoyl: [94444-40-3].

 $C_{39}H_{54}O_5$ M 602.853Isol. from *E. contortisiliquum*. Cryst. (Me₂CO). Mp 270°.

21-Cinnamoyl, 3-O-β-D-glucopyranoside: [107686-60-2].

 $C_{45}H_{64}O_{10}$ M 764.995Isol. from *E. contortisiliquum*.28→21 lactone: [6987-78-6]. **3β-Hydroxy-12-oleanen-28,21β-olide**. **3β-Hydroxycoriaceolide** $C_{30}H_{46}O_3$ M 454.692Saponin of *Stryphnodendron coriaceum*, *Albizzia* spp., *E. spp.* and *Acacia concinna*. Cryst. Mp 240-243°. $[\alpha]_D^{25} - 16^\circ$ (c, 1 in CHCl₃).21-Ketone: [511-81-9]. **3β-Hydroxy-21-oxo-12-oleanen-28-oic acid**. ***Machaeric acid*** $C_{30}H_{46}O_4$ M 470.691Constit. of *M. gummosus*, *Olox obtusifolia* and *Tetrapanax papyriferum*. Cryst. (Et₂O). Mp 309-312°. $[\alpha]_D^{25} + 23^\circ$ (CHCl₃).**3α-form**21-Ketone: [76425-50-8]. **3α-Hydroxy-21-oxo-12-oleanen-28-oic acid**. ***Papyriogenin F*** $C_{30}H_{46}O_4$ M 470.691Isol. from *T. papyriferum*. Prisms (MeOH). Mp 275-277°. $[\alpha]_D^{25} + 73^\circ$ (c, 0.05 in CHCl₃). Artifact.

[117804-24-7]

Djerassi, C. et al, *J. Am. Chem. Soc.*, 1955, **77**, 1825 (isol)Budzikiewicz, H. et al, *J. Am. Chem. Soc.*, 1963, **85**, 3688 (ms)Tursch, B. et al, *Bull. Soc. Chim. Belg.*, 1966, **75**, 191 (pmr)Varshney, I.P. et al, *Planta Med.*, 1972, **22**, 47; 1975, **27**, 272

(struct)

Varshney, I.P. et al, *Indian J. Chem.*, 1973, **11**, 1189 (isol, derivs)Asada, M. et al, *J. Chem. Soc., Perkin Trans. 1*, 1980, 325

(Papyriogenin F)

Woo, W.S. *et al*, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 547

(Tetrahydrofuranpropenoate)

Delgado, M.C.C. *et al*, *Phytochemistry*, 1984, **23**, 2289 (*derivs*)

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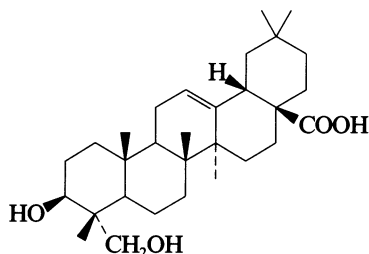
Shimizu, S. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 2466

(*Cynarasaponin J*)

3,23-Dihydroxy-12-oleanen-28-oic acid

D-10212

Updated Entry replacing D-02456



$C_{30}H_{48}O_4$ M 472.707

3 β -form [465-99-6] **Hederagenin**. *Caulosapogenin*. *Hederidin*.

Kalosapogenin. *Melanthigenin*. *Astrantiagenin E*

Sapogenin from *Clematis*, *Holboellia*, *Hedera* spp. and other plants. Epicarcinogen inhibitor. Cryst. (EtOH).

Mp 334° dec. $[\alpha]_D^{20} + 82^\circ$ (Py).

3-O- β -D-Glucopyranoside: **Caulosaponin**. *Leontin*†

$C_{36}H_{58}O_9$ M 634.849

Isol. from roots of *Calophyllum thalictroides*. Needles (EtOH). Mp 250-255° dec.

3-O- α -L-Rhamnopyranoside: [29618-15-3]. **Pastuchoside C**. *Polypetaloside A*

$C_{36}H_{58}O_8$ M 618.849

Constit. of *H. pastuchovii*. Cryst. (MeOH). Mp 254-257°. $[\alpha]_D^{20} + 43^\circ$ (c, 1.2 in MeOH).

3-O- $[\beta$ -D-Glucopyranosyl(1 \rightarrow 3)]- β -D-glucuronopyranoside]:

[25406-62-6]. **Spinasaponin B**

$C_{42}H_{66}O_{15}$ M 810.974

Saponin from roots of spinach (*Spinacea* spp.).

3-Glucosylaraboside: [26339-89-9]. **Hederacoside A**

$C_{41}H_{66}O_{13}$ M 766.965

Obt. from *H. helix*. Cryst. Mp 257-260°.

3-O- α -L-Arabinopyranoside: [17184-21-3]. **Cauloside A**.

Kizutasaponin K₃. *Leontoside A*. β -*Fatsin*. *Fatsiaside B₁*.

Prosapogenin CP₁. *Akeboside St₁*. *Nepalin 1*. *Scabioside A*.

Polypetaloside B. *Hederoside A₂*. *Taurosides B*

$C_{35}H_{56}O_8$ M 604.823

Constit. of *Patrinia*, *Phytolacca*, *Schefflera*,

Caulophyllum, *Fatsia*, *Hedera* spp. and others. Needles

(MeOH). Mp 228-231°. $[\alpha]_D^{25} + 67.2^\circ$ (c, 0.64 in MeOH).

3-O-(2-O-Acetyl- α -L-arabinopyranoside): [87562-05-8].

$C_{37}H_{58}O_9$ M 646.860

From *Patrinia scabiosaefolia*. Prisms (MeOH). Mp 226-

229°. $[\alpha]_D^{20} + 68^\circ$ (c, 0.05 in MeOH).

3-O- $[\alpha$ -L-Rhamnopyranosyl(1 \rightarrow 2)]- α -L-arabinopyranoside]:

[27013-91-8]. **Sapindoside A**. *Kalopanaxsaponin A*.

Kizutasaponin K₆. *Prosapogenin CP_{3b}*. α -*Hederin*.

Akebiasaponin P_D. *Nepalin 2*. *Taurosides E*. *Hederoside B*

$C_{41}H_{66}O_{12}$ M 750.965

Isol. from *Sapindus*, *H.*, *Astrantia* spp. and others. Mp

214-216°, Mp 256-259° dec. $[\alpha]_D^{20} + 16.5^\circ$ (c, 4.85 in

MeOH).

▶ LD₅₀ (mus, orl) > 4000 mg/kg. LD₅₀ (mus, ipr) 1800

mg/kg. RK0177800.

3-O- $[\beta$ -D-Xylopyranosyl(1 \rightarrow 3)]- α -L-rhamnopyranosyl(1 \rightarrow 2)]- α -

L-arabinopyranoside]: [30994-75-3]. **Sapindoside B**.

Prosapogenin CP₅. *Akebiasaponin P_G*

$C_{46}H_{74}O_{16}$ M 883.081

Isol. from *S. spp.*, *Lecaniodiscus cupanoides* and others. Mp 276-278°. $[\alpha]_D^{20} + 17.5^\circ$ (c, 2.85 in MeOH).

3-O- $[\beta$ -D-Glucopyranosyl(1 \rightarrow 4)]- β -D-xylopyranosyl(1 \rightarrow 3)]- α -L-rhamnopyranosyl(1 \rightarrow 2)]- α -L-arabinopyranoside]: [29781-27-9]. **Sapindoside C**. *Prosapogenin CP_{8a}*

$C_{57}H_{84}O_{21}$ M 1045.223

Isol. from *S. mukorossi*. Mp 235°. $[\alpha]_D - 5.5^\circ$ (c, 7.2 in MeOH).

3-O- $[\alpha$ -L-Rhamnopyranosyl(1 \rightarrow 6)]- $[\alpha$ -D-glucopyranosyl(1 \rightarrow 2)]- β -D-glucopyranosyl(1 \rightarrow 4)]- β -D-xylopyranosyl(1 \rightarrow 3)]- α -L-rhamnopyranosyl(1 \rightarrow 2)]- α -L-arabinopyranoside]: [31204-40-7]. **Sapindoside D**

$C_{64}H_{104}O_{30}$ M 1353.508

Isol. from *S. mukorossi*. Mp 100-102°. $[\alpha]_D^{20} + 44^\circ$ (c, 1.3 in MeOH).

3-O- $[\beta$ -D-Xyl(1 \rightarrow 3)]- α -L-Rha(1 \rightarrow 2)]- α -L-arabinopyranoside], $[\alpha$ -L-Rhamnopyranosyl(1 \rightarrow 6)]- $[\alpha$ -D-Glu(1 \rightarrow 2)]- β -D-Glu(1 \rightarrow 4)]- β -D-Xyl(1 \rightarrow 3)]- α -L-Rha(1 \rightarrow 2)]- α -L-

arabinopyranosyl] ester: [32619-52-6]. **Sapindoside E**

$C_{80}H_{130}O_{42}$ M 1763.882

Isol. from *S. mukorossi*. Mp 164-166°. $[\alpha]_D^{20} - 45.4^\circ$ (c, 1.76 in MeOH).

23-Aldehyde: see 3-Hydroxy-23-oxo-12-oleanen-28-oic acid, H-02739

Di-Ac, Me ester: [6028-03-1].

Isol. from *Hedyotis lawsonii*. Cryst. (MeOH). Mp 193°.

$[\alpha]_D + 78^\circ$ (c, 1.15 in CHCl₃).

3-O- $[\beta$ -D-Xylopyranosyl(1 \rightarrow 3)]- α -L-rhamnopyranosyl(1 \rightarrow 2)]- α -L-arabinopyranoside], $[\beta$ -D-glucopyranosyl(1 \rightarrow 2)]- β -D-glucopyranosyl] ester: [87733-76-4]. **Mukurozisaponin Y₁**

$C_{58}H_{94}O_{26}$ M 1207.365

Isol. from *S. mukorossi*. Powder + 3H₂O. $[\alpha]_D^{21} - 10.1^\circ$

(c, 1 in MeOH).

$[\alpha$ -L-Rhamnopyranosyl(1 \rightarrow 4)]- β -D-glucopyranosyl(1 \rightarrow 6)]- β -D-glucopyranosyl] ester: [57539-70-5]. **Cussonoside A**. *HN saponin H*

$C_{48}H_{78}O_{18}$ M 943.133

Isol. from *Cussonia barteri* and *Hedera nepalensis*.

Powder (MeOH/EtOAc). Mp 198-202° dec. $[\alpha]_D - 3.3^\circ$

(c, 3 in MeOH).

23-Aldehyde, 3-(6-acetyl- β -D-glucopyranoside), β -D-glucopyranosyl ester: [100156-32-9]. **Lucyoside M**

$C_{44}H_{68}O_{15}$ M 837.012

Isol. from *Luffa cylindrica*.

3-O-[3-Acetyl- β -D-xylopyranosyl(1 \rightarrow 3)]- α -L-rhamnopyranosyl(1 \rightarrow 2)]- α -L-arabinopyranoside]: [104494-27-1].

$C_{48}H_{76}O_{17}$ M 925.118

Isol. from *S. delavayi*. Powder + 1H₂O. $[\alpha]_D^{26} - 2.9^\circ$ (c, 1.01 in MeOH).

3-O- $[\alpha$ -L-Arabinopyranosyl(1 \rightarrow 3)]- α -L-rhamnopyranosyl(1 \rightarrow 2)]- α -L-arabinopyranoside]: [80666-65-5].

$C_{46}H_{74}O_{16}$ M 883.081

Isol. from *S. spp.*, *Lecaniodiscus cupanoides* and

Anemone rivularis. Powder + 4H₂O. $[\alpha]_D^{15} + 12.1^\circ$ (c, 1

in MeOH).

3-O- $[\alpha$ -L-Arabinopyranosyl(1 \rightarrow 3)]- α -L-rhamnopyranosyl(1 \rightarrow 2)]- α -L-arabinopyranoside]: [80666-65-5].

$C_{46}H_{74}O_{16}$ M 883.081

Isol. from *S. spp.*, *Lecaniodiscus cupanoides* and

Anemone rivularis. Powder + 4H₂O. $[\alpha]_D^{15} + 12.1^\circ$ (c, 1

in MeOH).

3-O- $[\alpha$ -L-Arabinopyranosyl(1 \rightarrow 3)]- α -L-rhamnopyranosyl(1 \rightarrow 2)]- α -L-arabinopyranoside], $[\beta$ -D-Glucopyranosyl(1 \rightarrow 2)]- β -D-glucopyranosyl] ester: [87781-65-5]. **Mukurozisaponin Y₂**

$C_{58}H_{94}O_{26}$ M 1207.365

Isol. from *S. mukorossi*. Powder + 4H₂O. $[\alpha]_D^{21} - 4.8^\circ$

(c, 1 in MeOH).

3-O-[4-Acetyl- β -D-xylopyranosyl(1 \rightarrow 3)]- α -L-rhamnopyranosyl(1 \rightarrow 2)]- α -L-arabinopyranoside]: [87733-78-6]. **Mukurozisaponin E₁**

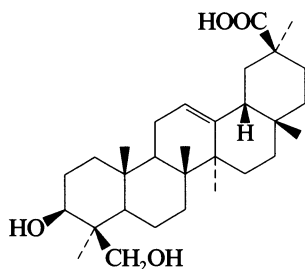
$C_{48}H_{76}O_{17}$ M 925.118

Isol. from *S. delavayi* and *S. mukorossi*. Powder. $[\alpha]_D^{23}$

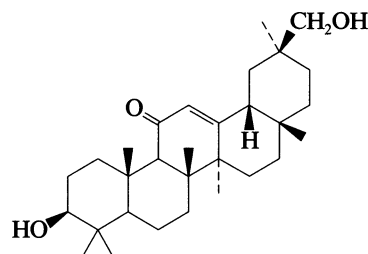
-6.2° (c, 1 in MeOH).

- 3-O-[α -L-Arabinofuranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside]: [84607-60-3].
 $C_{46}H_{74}O_{16}$ M 883.081
 Isol. from *S. delavayi*, *S. mukorossi* and *A. spp.* $[\alpha]_D^{23}$ -10.2° (c, 1 in MeOH).
- 3-O-[α -L-Arabinopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside]: [102349-43-9]. **Medicoside C**
 $C_{46}H_{74}O_{17}$ M 899.080
 Isol. from alfalfa (*Medicago sativa*). Mp 227-229°. $[\alpha]_D^{21}$ +34.0° (c, 0.41 in EtOH).
- 3-O-[α -L-Arabinopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranoside] β -D-glucopyranosyl ester: [107241-23-6]. **Medicoside I**
 $C_{52}H_{84}O_{22}$ M 1061.222
 Isol. from *M. sativa*. $[\alpha]_D$ +31° (c, 1.05 in CHCl₃).
- 3-O-[β -D-Ribopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside], [α -L-rhamnopyranosyl(1 \rightarrow 4)- β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl] ester: [96315-53-6]. **Huzhangoside D**
 $C_{64}H_{104}O_{30}$ M 1353.508
 Isol. from *A. rivularis*. Powder. $[\alpha]_D$ -29.6° (c, 2.73 in MeOH).
- 3-O-[α -L-Ribopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside], [β -D-glucopyranosyl(1 \rightarrow 3)- β -D-glucopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 4)- β -D-glucopyranosyl] ester: [58344-18-6]. **Songaroside B**
 $C_{76}H_{124}O_{39}$ M 1661.792
 Present in the Dipsacaceae and from *Clematis songarica*. Mp 246-248°. $[\alpha]_D^{18}$ +33° (c, 0.83 in MeOH).
- 3-Ketone: [466-01-3]. 23-Hydroxy-3-oxo-12-oleanen-28-oic acid. **Hederagonic acid**. **Hederagenic acid**
 $C_{30}H_{46}O_4$ M 470.691
 Isol. from *Caltha palustris* and *Viburnum erubescens*. Mp 222-225°. $[\alpha]_D$ +75.4°.
- 3-O-[β -D-Ribopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside]: [72629-76-6]. **Prosapogenin CP₆**, **Clematoside S**
 $C_{46}H_{74}O_{16}$ M 883.081
 Isol. from *A. rivularis*, *Biomphalaria glabrata* and *Clematis chinensis*. Powder (MeOH aq.). Mp 242-246° dec. $[\alpha]_D$ -11.2° (c, 0.92 in MeOH).
- 3-O- α -L-Arabinopyranoside, β -D-glucopyranosyl ester: [39524-13-5]. **HN saponin F**
 $C_{41}H_{66}O_{13}$ M 766.965
 Isol. from *Hedera nepalensis*. Needles (MeOH aq.). Mp 202-205° dec. $[\alpha]_D$ +36.0° (c, 0.5 in MeOH).
- 3-O- α -L-Arabinopyranoside, [β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl] ester: [39524-08-8].
 $C_{47}H_{76}O_{18}$ M 929.107
 Present in *Akebia quinata*, *Lonicera nigra*, *Patrinia* and *Phytolacca spp.* Powder (MeOH/EtOAc). Mp 218-220° (207-210°) dec. $[\alpha]_D^{18}$ +15.3° (c, 2 in MeOH).
- 23-O- α -L-Arabinopyranoside: [83864-75-9]. **Prosapogenin CP₀**
 $C_{35}H_{56}O_8$ M 604.823
 Isol. from *Clematis chinensis*. Needles + 1H₂O (MeOH). Mp 192-195° dec. $[\alpha]_D$ +48.9° (c, 0.43 in MeOH).
- 3-O-[β -D-Ribopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside], [α -L-rhamnopyranosyl(1 \rightarrow 4)- β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl] ester: [38358-51-9]. **Vitalboside F**
 $C_{58}H_{94}O_{26}$ M 1207.365
 Isol. from *C. vitalba* and *C. orientalis*. Mp 208-210°. $[\alpha]_D^{20}$ -19.4° (c, 1.27 in MeOH).
- 3-O-[α -L-Ribopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside]: [58989-67-6]. **Songaroside B'**
 $C_{52}H_{84}O_{20}$ M 1029.224
 Isol. from *C. songarica*.
- 3-O-[β -D-Xylopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside]: [38631-44-6]. **Akebiasaponin B**
 $C_{40}H_{64}O_{12}$ M 736.938
 Isol. from seeds of *A. quinata*. Needles (CHCl₃/MeOH aq.). Mp 249.5-250.5° dec. $[\alpha]_D$ +37° (c, 1.05 in MeOH).
- 3-O-[β -D-Xylopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside], [β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl] ester: [39524-14-6]. **Akebiasaponin E**
 $C_{52}H_{84}O_{22}$ M 1061.222
 Isol. from *A. quinata*. Powder + 4H₂O (MeOH/pet. ether). Mp 210-214° dec. $[\alpha]_D$ +6° (c, 1.8 in MeOH).
- 3-O-[β -D-Xylopyranosyl(1 \rightarrow 3)- α -L-arabinopyranoside]: [60213-68-5].
 $C_{40}H_{64}O_{12}$ M 736.938
 Isol. from *A. quinata*. Needles + 1H₂O. Mp 236-240° dec. $[\alpha]_D$ +45° (c, 2.42 in MeOH).
- 3-O- α -L-Arabinopyranoside, [α -L-rhamnopyranosyl(1 \rightarrow 4)- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-glucopyranosyl] ester: [75621-05-5]. **Fatsiaside D**
 $C_{53}H_{86}O_{22}$ M 1075.249
 Isol. from *Fatsia japonica*. Cryst. (MeOH aq.). Mp 184-187° dec. $[\alpha]_D^{25}$ +5.3° (MeOH aq.).
- 3-O- α -L-Arabinopyranoside, [α -L-rhamnopyranosyl(1 \rightarrow 4)- β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl] ester: [12672-45-6]. **Cauloside D**, **Kizutasaponin K₁₀**, **Hederoside G**
 $C_{53}H_{86}O_{22}$ M 1075.249
 Isol. from *Caulophyllum*, *H. spp.* and a few others. Powder (EtOAc/MeOH). Mp 211-213° dec. $[\alpha]_D$ +10.2° (Py).
- 3-O-[β -D-Glucopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside]: [20853-58-1]. **Calthoside D**, **Cauloside C**, **Fatsiaside D₁**, **α -Fatsin**, **Akebiasaponin C**, **Hederoside D₂**
 $C_{41}H_{66}O_{13}$ M 766.965
 Isol. from *Fatsia japonica*, *Lonicera nigra*, *A. spp.*, *C. robustum* and others. Shows antifungal and cytotoxic and contraceptive activities. Cryst. (MeOH). Mp 252-255° dec. $[\alpha]_D^{20}$ +39.2°. α -Fatsin originally assigned incorrect struct.
- 3-O-(2-O-Acetyl- α -L-arabinopyranoside), [β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl] ester: [103976-31-4].
 $C_{49}H_{78}O_{19}$ M 971.144
 Isol. from *P. scabiosaefolia*. Plates (MeOH). Mp 224-226°. $[\alpha]_D^{25}$ +17.2° (c, 0.5 in MeOH).
- Glycoside**: [11060-82-5]. **Hederacauloside D**, **Pastuchoside A**
 $C_{59}H_{96}O_{22}$ M 1157.394
 Constit. of *H. caucaugenia* and *H. pastuchovii*. Cryst. Mp 205-215°. Struct. not established. Conts. 5 sugar residues.
- 3-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)-arabinopyranoside]: **Collinsonidin**
 $C_{41}H_{66}O_{13}$ M 766.965
 Constit. of *Collinsonia canadensis*. Cryst. (EtOH). Mp 250-252°. $[\alpha]_D$ +55.6°.
- 3-O-[α -L-Arabinopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranoside]: **Clemantoside C**
 $C_{46}H_{74}O_{16}$ M 883.081
 Constit. of *Clematis montana*. Cryst. (MeOH). Mp 229-230°.
- [30883-34-2]
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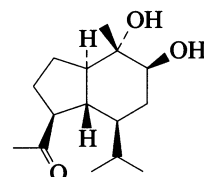
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3,24-Dihydroxy-12-oleanen-30-oic acid **D-10213**C₃₀H₄₈O₄ M 472.707**3β-form**

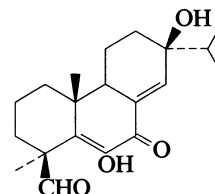
3-O-[β-D-Glucuronopyranosyl-(1→2)-β-D-glucuronopyranoside]: [134250-13-8]. **Licoricesaponin J2**
C₄₂H₆₄O₁₆ M 824.958
Constit. of *Glycyrrhiza uralensis*. Mp 263-265°. [α]_D²⁵ +21° (MeOH).

Kitagawa, I. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 244.**3,30-Dihydroxy-12-oleanen-11-one** **D-10214**C₃₀H₄₈O₃ M 456.707**3β-form** [14226-18-7] **Glycyrrhetol**

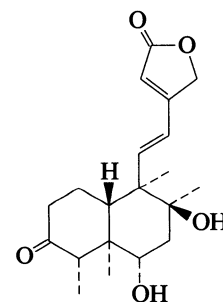
Constit. of *Glycyrrhiza glabra*. Cryst. (MeOH aq.). Mp 252-254°. [α]_D²⁰ +87° (c, 1.9 in CHCl₃).

30-Carboxylic acid: see *Glycyrrhetic acid*, G-00597Canonica, L. *et al*, *Gazz. Chim. Ital.*, 1967, **97**, 1347 (*isol*)Ricca, G.S. *et al*, *Gazz. Chim. Ital.*, 1968, **98**, 602 (*pmr*)**9,10-Dihydroxy-4-oplopanone** **D-10215**C₁₅H₂₆O₃ M 254.369**(9β,10α)-form**

Constit. of *Artemisia sieberi*. Oil. [α]_D -5° (c, 0.8 in CHCl₃).

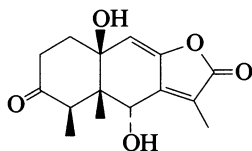
Marco, J.A. *et al*, *Phytochemistry*, 1993, **34**, 1061 (*isol, pmr, cmr*)**6,13-Dihydroxy-7-oxo-5,8(14)-abietadien-19-al** **D-10216**C₂₀H₂₈O₄ M 332.439**13β-form** [151484-87-6] **Juniperal**

Constit. of *Juniperus chinensis*. Yellow oil. [α]_D²⁵ +3.2° (c, 1.6 in MeOH).

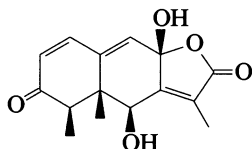
Fang, J.-M. *et al*, *Phytochemistry*, 1993, **33**, 1169 (*isol, pmr, cmr*)**6,8-Dihydroxy-3-oxo-11,13-clerodadien-15,16-olide** **D-10217**

C₂₀H₂₈O₅ M 348.438**(ent-6β,8α,11E)-form**6-Benzoyl: [114436-05-4]. *Scutellone E*C₂₇H₃₂O₆ M 452.546Constit. of *Scutellaria rivularis*. Needles (Me₂CO). Mp 230-232°. [α]_D²⁴ +72.7° (c, 1 in CHCl₃).Lin, Y.-L. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 2642.**6,10-Dihydroxy-3-oxo-7(11),8-
eremophiladien-12,8-olide**

D-10218

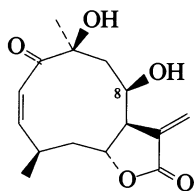
C₁₅H₁₈O₅ M 278.304**(6α,10β)-form** [149301-57-5]Constit. of *Ligularia veitchiana*. Needles (Me₂CO). Mp 148-149°. [α]_D²⁵ +42.6° (c, 0.5 in Me₂CO).Jia, Z. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 494 (*isol, pmr, cmr*)**6,8-Dihydroxy-3-oxo-1,7(11),9-
eremophilatrien-12,8-olide**

D-10219

C₁₅H₁₆O₅ M 276.288**(6β,8βOH)-form** [149301-68-8]Constit. of *Ligularia veitchiana*. Cryst. (MeOH). Mp 193-194°. [α]_D²⁵ +12.0° (c, 0.5 in CHCl₃).Jia, Z. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 494 (*isol, pmr, cmr*)**8,10-Dihydroxy-1-oxo-2,11(13)-
germacradien-12,6-olide**

D-10220

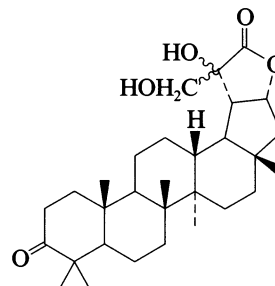
Updated Entry replacing D-02502

**(2Z,4αH,6α,8β,10β)-form**C₁₅H₂₀O₅ M 280.320**(2Z,4αH,6α,8β,10β)-form**8-(2-Methylpropenoyl): [110300-73-7]. *Calein E*C₁₉H₂₄O₆ M 348.395Constit. of *Calea zacatechichi*. Cryst.(Me₂CO/diisopropyl ether). Mp 150-151°. [α]_D +47.4° (CHCl₃).8-Tigloyl: [110300-74-8]. *Calein F*C₂₀H₂₆O₆ M 362.422From *C. zacatechichi*. Cryst. Mp 141-143°.**(2Z,4αH,6α,8α,10β)-form**

8-(2-Methylpropenoyl), 10-Ac:

C₂₁H₂₆O₇ M 390.432Constit. of *Lychnophora blanchetii*. Gum.8-Angeloyl, 10-Ac: [80398-75-0]. *Ereglomerulide*. 2,3-cis-*Ereglomerulide*C₂₂H₂₈O₇ M 404.459Constit. of *Eremanthus glomerulatus*. Cryst. (Et₂O/pet. ether). Mp 189°. [α]_D²⁴ -29° (c, 0.3 in CHCl₃).**(2E,4αH,6α,8α,10β)-form**8-Angeloyl, 10-Ac: [80377-59-9]. 2,3-trans-*Ereglomerulide*C₂₂H₂₈O₇ M 404.459Constit. of *E. glomerulatus*. Gum. [α]_D²⁴ -7° (c, 0.1 in CHCl₃).**(2Z,4αH,6α,8β,10α)-form**8-(3-Methylbutanoyl): [67506-31-4]. *Neuroleinin A*C₂₀H₂₈O₆ M 364.438Constit. of *Neurolaena lobata*. Cryst. (EtOAc/hexane).Mp 127-128°. [α]_D²⁵ -257.7° (c, 1.0 in CHCl₃).Manchand, P.S. *et al*, *J. Org. Chem.*, 1978, **43**, 4352 (*Nuroleinin A*)Bohlmann, F. *et al*, *Phytochemistry*, 1981, **20**, 1609; 1982, **21**, 1087.Barros, D.A.D. *et al*, *Planta Med.*, 1985, **38** (*Ereglomerulide*)Martinez, M. *et al*, *Phytochemistry*, 1987, **26**, 2104 (*Caleins*)**20,29-Dihydroxy-3-oxo-30,21-lupanolide**

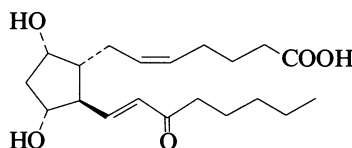
D-10221

C₃₀H₄₆O₅ M 486.690**(21α,20ξ)-form***Ochraceolide D*Constit. of *Kokoona ochracea*. Cryst. (CHCl₃/MeOH).Mp 253-256°. [α]_D²⁵ +10° (c, 0.1 in MeOH).Ngassapa, O. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1676 (*isol, pmr, cmr*)**9,11-Dihydroxy-15-oxo-5,13-prostadienoic
acid, 9CI**

D-10222

7-[3,5-Dihydroxy-2-(3-oxo-1-octenyl)cyclopentyl]-5-heptenoic acid, 8CI

[35850-13-6]

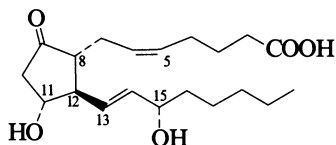
**(5Z,9S,11R,13E)-form**C₂₀H₃₂O₅ M 352.470**(5Z,9S,11R,13E)-form**15-Oxo-PGF_{2α}Metab. of PGF_{2α} (see 9,11,15-Trihydroxyprosta-5,13-dienoic acid, T-02631).

13,14-Dihydro: see 9,11-Dihydroxy-15-oxo-5-prostenoic acid, D-02562

Bundy, G.L. *et al*, *Adv. Biosci. (Oxford)*, 1972, **9**, 125 (*synth*)Pace-Asciak, C. *et al*, *Prostaglandins*, 1972, **1**, 469 (*biosynth*)Hansen, H.S., *Prostaglandins*, 1976, **12**, 647 (*rev*)

Schneider, W.P. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 1222 (*synth*)
 Speziale, E. *et al*, *Biochem. Biophys. Res. Commun.*, 1984, **124**, 69
 (*biochem*)

11,15-Dihydroxy-9-oxo-5,13-prostadienoic acid, 9CI **D-10223**



$C_{20}H_{32}O_5$ M 352.470
(5Z,8R,11R,12R,13E,15R)-form [38873-82-4]

15(R)-Prostaglandin E_2

Isol. from *Plexaura homomalla*.

Me ester: [31687-35-1].

Oil.

(5Z,8R,11R,12R,13E,15S)-form [363-24-6]

Prostaglandin E_2 . PGE_2 . **Dinoprostone**, **BAN**, **INN**, **JAN**,
USAN. **Dinopron EM**. **Enzaprost E**. **Medullin**. **Minprost**
 E_2 . **Prostarmon E**. **Prostenon**. **Prostin E_2** . **U 12062**
 Most common and biologically active of mammalian
 prostaglandins. Oxytocic, abortifacient and vasodilator.
 Cryst. Mp 66-68°. $[\alpha]_D^{26} -61^\circ$ (c, 1 in THF).

▷ UK8000000.

(5E,8R,11R,12R,13E,15S)-form [36150-00-2]

(5E)- PGE_2

Plates (Et₂O/hexane). Mp 76-77°. $[\alpha]_D -66^\circ$ (c, 0.983 in
 EtOH), -95° (c, 0.903 in CHCl₃).

▷ Exp. teratogen.

(5Z,8R,11S,12R,13E,15S)-form [38310-90-6]

11-epi- PGE_2

Oil. $[\alpha]_D^{25} -26^\circ$ (c, 0.0076 in EtOH).

(5Z,8SR,11RS,12RS,13E,15SR)-form [31660-17-0]

(±)-8-iso- PGE_2

Cryst. (EtOAc/heptane). Mp 90-92°.

(5Z,8RS,11RS,12RS,13E,15RS)-form [31660-13-6]

(±)-15-epi- PGE_2

[38873-84-6]

Bergström, S. *et al*, *Biochim. Biophys. Acta*, 1964, **90**, 207
 (*biosynth*)

Corey, E.J. *et al*, *J. Am. Chem. Soc.*, 1969, **91**, 5675; *Tetrahedron
 Lett.*, 1970, 307 (*synth*)

Light, R.J. *et al*, *Eur. J. Biochem.*, 1972, **28**, 232 (*isol*)

Bundy, G.L. *et al*, *J. Am. Chem. Soc.*, 1972, **94**, 2124 (*synth*)

Horton, E.W., *Proc. R. Soc. London, B*, 1972, **182**, 411 (*rev*)

Floyd, D.M. *et al*, *Tetrahedron Lett.*, 1972, 3269 (*synth*)

Von Euler, U.S., *Arch. Int. Pharmacodyn. Ther.*, 1973, **202**, 295
 (*rev, pharmacol*)

Heather, J.B. *et al*, *Tetrahedron Lett.*, 1973, 2313 (*synth*)

Sih, C.J. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 865 (*synth*)

Uekama, K. *et al*, *Chem. Lett.*, 1977, 1389 (*cd*)

Schneider, W.P. *et al*, *J. Am. Chem. Soc.*, 1977, **99**, 1222 (*synth*,
ms)

Andersen, N.H. *et al*, *Prostaglandins*, 1977, **14**, 61 (*synth*)

Van Dyk, J.M., *Drugs of Today (Barcelona)*, 1978, **14**, 74 (*rev*)

Chen, S.-M.L. *et al*, *J. Org. Chem.*, 1978, **43**, 3450 (*synth, ir, pmr*,
cmr, ms)

Nakamura, N. *et al*, *Tetrahedron Lett.*, 1978, 1549 (*synth, pmr*)

Newton, R.F. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1979, 2789

(*synth*)

de Titta, G.T. *et al*, *Acta Crystallogr., Sect. B*, 1980, **36**, 638 (*cryst
 struct, conformn*)

Howard, C. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1981, 2049 (*Me
 ester, synth, ir, pmr*)

Stehle, R.G., *Methods Enzymol.*, 1982, **86**, 436 (*rev*)

Martindale, *The Extra Pharmacopoeia*, 28th/29th Ed.,
 Pharmaceutical Press, London, 1982/1989, 8082.

Donaldson, R.E. *et al*, *J. Org. Chem.*, 1983, **48**, 2167 (*synth*)

Tanaka, T. *et al*, *Tetrahedron Lett.*, 1985, **26**, 5575 (*synth*)

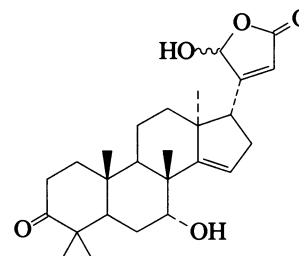
Suzuki, M. *et al*, *J. Am. Chem. Soc.*, 1988, **110**, 4718 (*synth*)

Johnson, C.R. *et al*, *J. Am. Chem. Soc.*, 1988, **110**, 4726 (*synth*,
pmr, cmr)

Murray, C.K. *et al*, *J. Am. Chem. Soc.*, 1990, **112**, 5660 (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th
 Ed., Van Nostrand-Reinhold, 1992, DVJ200.

7,21-Dihydroxy-3-oxo-24,25,26,27-tetranorapotirucalla-14,20(22)-dien-23,21-olide **D-10224**



$C_{26}H_{36}O_5$ M 428.567

(6α,21ξ)-form

Constit. of *Picrolemma granatensis*. Amorph. solid. Mp
 168-172°. $[\alpha]_D +24^\circ$ (c, 0.093 in CHCl₃).

1,2-Didehydro: 7,21-Dihydroxy-3-oxo-24,25,26,27-
 tetranorapotirucalla-1,14,20(22)-trien-23,21-olide

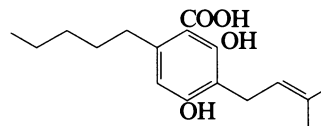
$C_{26}H_{34}O_5$ M 426.552

Constit. of *P. granatensis*.

Rodrigues Fo, E. *et al*, *Phytochemistry*, 1993, **34**, 501 (*isol, pmr*,
cmr)

2,4-Dihydroxy-6-pentyl-3-prenylbenzoic acid **D-10225**

2,4-Dihydroxy-3-(3-methyl-2-butenyl)-6-pentylbenzoic acid



$C_{17}H_{24}O_4$ M 292.374

4-Me ether: [80489-91-4]. 2-Hydroxy-4-methoxy-6-pentyl-3-
 prenylbenzoic acid

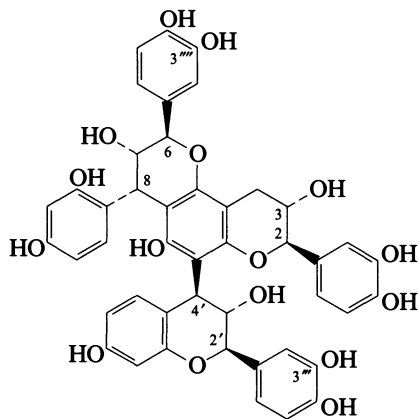
$C_{18}H_{26}O_4$ M 306.401

Isol. from the aerial parts of *Glycyrrhiza acanthocarpa*.

Needles (pentane). Mp 102-103°.

Ghisalberti, E.L. *et al*, *Phytochemistry*, 1981, **20**, 1959.

4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-6-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,7-dihydroxy-2H-1-benzopyran-4-yl]-3,4,9,10-tetrahydro-2H,8H-benzo[1,2-b:3,4-b']dipyran-3,5,9-triol, 9CI
[127612-67-3]



$C_{45}H_{38}O_{16}$ M 834.786
Constit. of the heartwood of *Colophospermum mopane*.

3^{'''}-Deoxy: [127612-72-0].

$C_{45}H_{38}O_{15}$ M 818.786

Constit. of *C. mopane*.

3^{'''}-Deoxy: [127612-71-9].

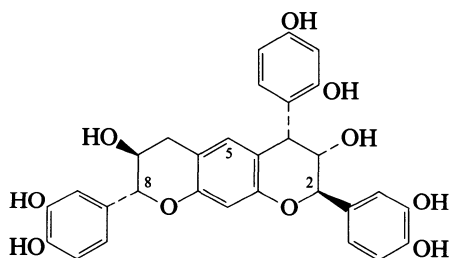
$C_{45}H_{38}O_{15}$ M 818.786

Constit. of *C. mopane*.

Steynberg, J.P. et al, *J. Chem. Soc., Perkin Trans. 2*, 1990, 235.

4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,7,8-tetrahydro-2H,6H-benzo[1,2-b:5,4-b']dipyran-3,7-diol, 9CI

D-10227



(2R,3S,4R,7S,8R)-form

$C_{30}H_{26}O_{10}$ M 546.529

(2R,3S,4R,7S,8R)-form [127644-47-7]

Constit. of the heartwood of *Colophospermum mopane*.

(2R,3S,4R,7S,8S)-form [127644-49-9]

Constit. of *C. mopane*.

(2R,3S,4S,7S,8R)-form [105805-44-5]

Constit. of *C. mopane*.

5-Hydroxy: [118964-31-1].

$C_{30}H_{26}O_{11}$ M 562.529

Constit. of the heartwood of *Baikiaea plurijuga* and *Guibourtia coleosperma*.

(2R,3S,4S,7S,8S)-form [127644-45-5]

Constit. of *C. mopane*.

5-Hydroxy: [130932-37-5].

Constit. of *B. plurijuga*.
(2S,3S,4R,7R,8R)-form

5-Hydroxy: [130932-35-3].

Constit. of *B. plurijuga*.

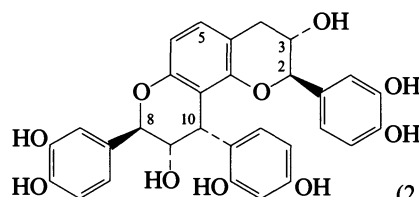
[127644-51-3, 127644-53-5, 127644-55-7, 127644-57-9]

Steynberg, J.P. et al, *J. Chem. Soc., Perkin Trans. 1*, 1988, 3323; 1989, 1709 (isol, derivs)

Malan, J.C. et al, *J. Chem. Soc., Perkin Trans. 1*, 1990, 227 (isol)
Steynberg, J.P. et al, *Phytochemistry*, 1990, 29, 2979 (isol, derivs)

10-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2H,8H-benzo[1,2-b:3,4-b']dipyran-3,9-diol, 9CI

D-10228



(2R,3S,8R,9S,10R)-form

$C_{30}H_{26}O_{10}$ M 546.529

(2R,3S,8R,9S,10R)-form [102258-23-1]

Constit. of the heartwood of *Colophospermum mopane*.

(2R,3S,8R,9S,10S)-form [127644-75-1]

Constit. of *C. mopane*.

(2R,3S,8S,9S,10S)-form [127644-77-3]

Constit. of *C. mopane*.

(2S,3S,8R,9S,10S)-form [105880-85-1]

Constit. of *C. mopane*.

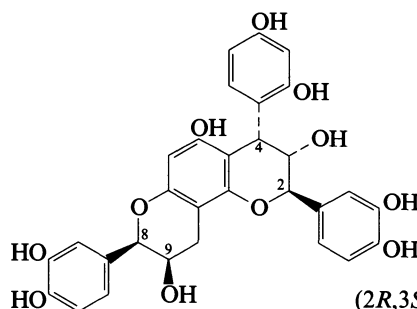
(2S,3S,8S,9S,10R)-form [127644-79-5]

Constit. of *C. mopane*.

Malan, J.C.S. et al, *J. Chem. Soc., Perkin Trans. 1*, 1990, 209 (isol)

4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2H,8H-benzo[1,2-b:3,4-b']dipyran-3,5,9-triol, 9CI

D-10229



(2R,3S,4R,8R,9R)-form

$C_{30}H_{26}O_{11}$ M 562.529

(2R,3S,4R,8R,9R)-form [130932-39-7]

Constit. of *Baikiaea plurijuga* and *Guibourtia coleosperma*.

(2R,3S,4R,8R,9S)-form [119065-94-0]

Constit. of *B. plurijuga* and *G. coleosperma*.

(2R,3S,4S,8R,9R)-form [130932-41-1]

Constit. of *B. plurijuga*.

(2S,3R,4S,8S,9R)-form [130932-51-3]

Constit. of *B. plurijuga*.

(2S,3S,4R,8R,9R)-form [130932-43-3]

Constit. of *B. plurijuga* and *G. coleosperma*.

(2*S*,3*S*,4*R*,8*R*,9*S*)-form [119065-88-2]
Constit. of *B. plurijuga* and *G. coleosperma*.

(2*S*,3*S*,4*R*,8*S*,9*R*)-form [130932-45-5]
Constit. of *B. plurijuga*.

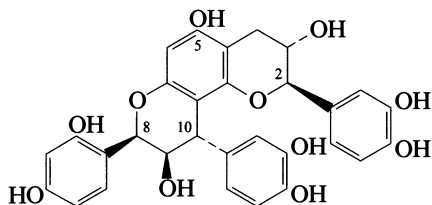
[105805-43-4]

Steynberg, J.P. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1988, 3323, 3331; 1989, 1709 (*isol*)

Steynberg, J.P. *et al*, *Phytochemistry*, 1990, **29**, 2979 (*isol*)

8-(2,4-Dihydroxyphenyl)-2,10-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-3,5,9-triol, 9*CI*

D-10230



(2*R*,3*S*,8*R*,9*R*,10*S*)-form

$C_{30}H_{26}O_{11}$ M 562.529

(2*R*,3*S*,8*R*,9*R*,10*S*)-form [118964-22-0]

Constit. of the heartwood of *Baikiaea plurijuga*.

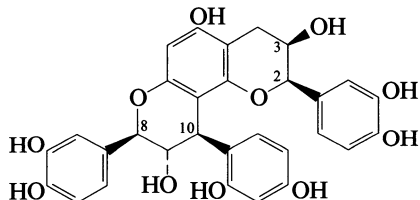
(2*R*,3*S*,8*S*,9*R*,10*S*)-form [119065-84-8]

Constit. of *B. plurijuga*.

Steynberg, J.P. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1988, 3331; 1989, 1709.

10-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-3,5,9-triol, 9*CI*

D-10231



(2*R*,3*R*,8*R*,9*S*,10*R*)-form

$C_{30}H_{26}O_{11}$ M 562.529

(2*R*,3*R*,8*R*,9*S*,10*R*)-form [130932-29-5]

Constit. of the heartwood of *Baikiaea plurijuga* and *Guibourtia coleosperma*.

(2*R*,3*R*,8*R*,9*S*,10*S*)-form [130932-27-3]

Constit. of *B. plurijuga*, *G. coleosperma* and *Colophospermum mopane*.

(2*R*,3*S*,8*R*,9*S*,10*R*)-form [119067-90-2]

Constit. of *G. coleosperma*.

(2*R*,3*S*,8*R*,9*S*,10*S*)-form [102258-25-3]

Constit. of *B. plurijuga* and *G. coleosperma*.

(2*S*,3*R*,8*S*,9*R*,10*R*)-form [130932-31-9]

Constit. of *B. plurijuga*.

(2*S*,3*S*,8*R*,9*S*,10*S*)-form [119065-92-8]

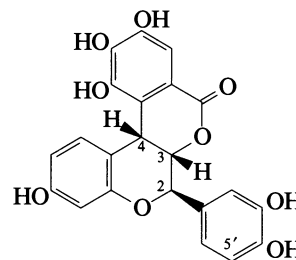
Constit. of *B. plurijuga*.

Steynberg, J.P. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1988, 3323, 3331; 1989, 1709 (*isol, struct*)

Steynberg, J.P. *et al*, *Phytochemistry*, 1990, **29**, 2979 (*isol, struct*)

6-(3,4-Dihydroxyphenyl)-6*a*,12*b*-dihydro-3,10,11,12-tetrahydroxy[2]benzopyrano[3,4-*c*][1]benzopyran-8(6*H*)-one, 9*CI*

D-10232



$C_{22}H_{16}O_9$ M 424.363

Flavonoid numbering shown.

(2*R*,3*S*,4*S*)-form [126655-06-9]

Constit. of the heartwood of *Burkea africana* and *Peltophorum africana*.

5'-Hydroxy: [126655-08-1]. 6*a*,12*b*-Dihydro-3,10,11,12-tetrahydroxy-6-(3,4,5-trihydroxyphenyl)[2]benzopyrano[3,4-*c*][1]benzopyran-8(6*H*)one, 9*CI*

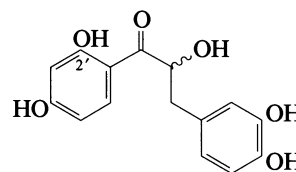
$C_{22}H_{16}O_{10}$ M 440.362

Constit. of the heartwood of *B. africana*.

Bam, M. *et al*, *Phytochemistry*, 1990, **29**, 283 (*isol*)

1-(2,4-Dihydroxyphenyl)-3-(3,4-dihydroxyphenyl)-2-hydroxy-1-propanone, 9*CI*
 α ,2',3,4,4'-Pentahydroxydihydrochalcone

D-10233



$C_{15}H_{14}O_6$ M 290.272

(\pm)-form

2'-Me ether: [117614-80-9]. α ,3,4,4'-Tetrahydroxy-2'-methoxydihydrochalcone

$C_{16}H_{16}O_6$ M 304.299

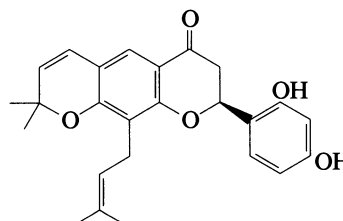
Isol. from the heartwood of *Xanthocercis zambesiaca*.

Bezuidenhout, S.C. *et al*, *Phytochemistry*, 1988, **27**, 2329.

2-(2,4-Dihydroxyphenyl)-8,8-dimethyl-10-(3-methyl-2-butenyl)-8*H*-pyrano[2,3-*d*]chroman-4-one, 8*CI*

D-10234

2',4'-Dihydroxy-7,6-(2,2-dimethylpyrano)-8-prenylflavanone [52100-63-7]



$C_{25}H_{26}O_5$ M 406.477

Isol. from the roots of *Euchresta japonica*. Shows ulcerogenic props. Config. not determined.

(S)-form [50773-30-3]

Isol. from the roots of *Sophora subprostrata*. Needles (C₆H₆). Mp 173°. [α]_D²⁵ – 2.5° (c, 5 in EtOH).

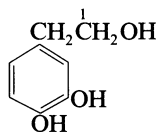
Kyogoku, K. *et al*, *Chem. Pharm. Bull.*, 1973, **21**, 1192 (*isol*)
Japan. Pat., 73 99313, (1973); *CA*, **80**, 124752 (*isol*)

2-(3,4-Dihydroxyphenyl)ethanol**D-10235**

Updated Entry replacing D-02633

4-(2-Hydroxyethyl)-1,2-benzenediol, 9CI. 3,4-Dihydroxyphenethyl alcohol, 8CI. 3,4-Dihydroxybenzeneethanol

[10597-60-1]

C₈H₁₀O₃ M 154.165

Occurs as various complex glycosides e.g. Echinacoside, E-00019. Oil. Bp_{0.02} 170-175° part. dec. Previously incorrectly descr. as cryst., Mp 81-3°.

1-O-[α -L-Rhamnopyranosyl(1→6)- β -D-glucopyranoside]: [93675-88-8]. **Forsythoside E**

C₂₀H₃₀O₁₂ M 462.450

Isol. from fruits of *Forsythia suspensa*. Pale yellow amorph. solid. [α]_D – 35.3° (c, 0.41 in MeOH).

1-O-[α -L-Rhamnopyranosyl(1→3)- β -D-glucopyranoside]: [61548-34-3]. **Verbasoside**

C₂₀H₃₀O₁₂ M 462.450

Isol. from *Cistanche salsa*, *Stachys sieboldii*, *Pedicularis striata* and other plants. The crude drug *Cistanche Herba*, from *C. salsa*, is used as a tonic in oriental medicine. Powder. [α]_D²⁴ – 49.3° (c, 0.34 in MeOH).

1-O-[α -L-Rhamnopyranosyl(1→3)-2-O-acetyl- β -D-glucopyranoside]: [104806-92-0]. **Cistanoside H**

C₂₂H₃₂O₁₃ M 504.487

Isol. from *Cistanche salsa*. Monohydrate. [α]_D¹⁸ – 58.9° (c, 1.6 in MeOH).

3-Me ether: [2380-78-1]. 4-Hydroxy-3-methoxybenzeneethanol. (4-Hydroxy-3-methoxyphenyl)ethanol

C₉H₁₂O₃ M 168.192

Isol. from various plant spp. Constit. of mandibular secretion of honeybees.

3'-Me ether, 1-O-[α -L-rhamnopyranosyl(1→3)- β -D-glucopyranoside]: [97400-08-3]. **Cistanoside E**

C₂₁H₃₂O₁₂ M 476.477

Isol. from *C. salsa*. Amorph.

4-O-(6-O-Galloyl- β -D-glucopyranoside): [115397-25-6].

C₂₁H₂₄O₁₂ M 468.413

Tannin from leaves of *Castanopsis cuspidata* var. *sieboldii*. Amorph. powder + H₂O. [α]_D²⁰ – 44.1° (c, 1.05 in H₂O).

1-O-[α -L-Rhamnopyranosyl(1→3)-4-O-isoferuloyl- β -D-glucopyranoside]: [113953-02-9]. **Phtheirospermoside**

C₃₀H₃₈O₁₅ M 638.621

Isol. from *Phtheirospermum japonicum*. Amorph. powder. [α]_D²³ – 93.1° (c, 0.2 in MeOH).

1-O-[β -D-Apio-D-furanosyl(1→3)[α -L-rhamnopyranosyl(1→6)]-4-O-caffeoyl- β -D-glucopyranoside]: [135010-61-6].

Pedicularioside AC₃₄H₄₄O₁₉ M 756.710

Isol. from *Pedicularis striata*. Amorph. powder. [α]_D²² – 58.4° (c, 1.2 in MeOH).

Baraldi, P.G. *et al*, *Justus Liebigs Ann. Chem.*, 1983, 684 (*synth*, *ir*, *pmr*, *bibl*)

Endo, K. *et al*, *Can. J. Chem.*, 1984, **62**, 2011 (*Forsythoside E*)
Kobayashi, H. *et al*, *Chem. Pharm. Bull.*, 1985, **33**, 1452

(Cistanoside E)

Karasawa, H. *et al*, *Yakugaku Zasshi*, 1986, **106**, 562, 721 (*Verbasoside*, *Cistanoside H*)

Ageta, M. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 870 (4-galloylglucoside)

Takeda, Y., *J. Nat. Prod. (Lloydia)*, 1988, **51**, 180 (*Phtheirospermoside*)

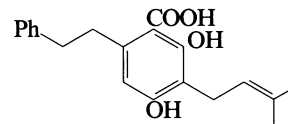
Bianco, A. *et al*, *Synth. Commun.*, 1988, **15**, 1765 (*synth*)

Nishimura, H. *et al*, *Phytochemistry*, 1990, **29**, 3303; 1991, **30**, 965 (*Verbasoside*)

Liu, Z. *et al*, *Phytochemistry*, 1991, **30**, 1341 (*Pedicularioside A*)

2,4-Dihydroxy-6-(2-phenylethyl)-3-prenylbenzoic acid**D-10236**

2,4-Dihydroxy-3-(3-methyl-2-butenyl)-6-(2-phenylethyl)benzoic acid. 2-Carboxy-3,5-dihydroxy-4-prenylbibenzyl

C₂₀H₂₂O₄ M 326.391

Cryst. (EtOH). Mp 144-145°.

4-Me ether: [80489-90-3]. 2-Hydroxy-4-methoxy-6-(2-phenylethyl)-3-prenylbenzoic acid. 2-Carboxy-3-hydroxy-5-methoxy-4-prenylbibenzyl

C₂₁H₂₄O₄ M 340.418

Isol. from the aerial parts of *Glycyrrhiza acanthocarpa*. Needles (toluene/pet. ether). Mp 134°.

Ghisalberti, E.L. *et al*, *Phytochemistry*, 1981, **20**, 1959.

3-(3,4-Dihydroxyphenyl)-8-hydroxy-2H-1-benzopyran-2-one, 9CI**D-10237**

3-(3,4-Dihydroxyphenyl)-8-hydroxycoumarin

C₁₅H₁₀O₅ M 270.241

4'-Me ether: [68165-54-8]. 8-Hydroxy-3-(3-hydroxy-4-methoxyphenyl)coumarin. **Phyllozutin**

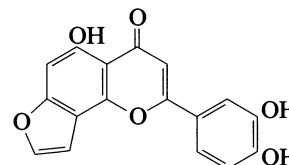
C₁₆H₁₂O₅ M 284.268

Isol. from cell culture of *Hydrangea macrophylla seringe* var. *thunbergii*. Cryst.

Japan. Pat., 78 59 094, (1978); *CA*, **89**, 194146 (*isol*)

2-(3,4-Dihydroxyphenyl)-5-hydroxy-4H-furo[2,3-h]-1-benzopyran-4-one, 9CI**D-10238**

3',4',5'-Trihydroxyfuranol[2'',3'':7,8]flavone

C₁₇H₁₀O₆ M 310.262

5-Me, 3',4'-methylene ether: [69722-45-8]. 5-Methoxy-3',4'-methylenedioxyfuranol[2'',3'':7,8]flavone

C₁₉H₁₂O₆ M 336.300

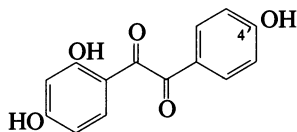
Isol. from the stem bark of *Pongamia glabra*. Needles (CHCl₃/pet. ether). Mp 268-269° (263-264°).

Garg, G.P. *et al*, *Indian J. Chem., Sect. B*, 1978, **16**, 658 (*isol*)

Pathak, V.P. *et al*, *Acta Chim. Acad. Sci. Hung.*, 1982, **110**, 123 (*synth*)

Talapatra, S.K. *et al*, *Phytochemistry*, 1982, **21**, 761 (*isol*)

1-(2,4-Dihydroxyphenyl)-2-(4-hydroxyphenyl)ethanedione
2,4,4'-Trihydroxybenzil



$C_{14}H_{10}O_5$ M 258.230

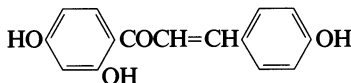
4'-Me ether: 2,4-Dihydroxy-4'-methoxybenzil

$C_{15}H_{12}O_5$ M 272.257

Isol. from *Trifolium subterraneum*. Yellow needles (CH_2Cl_2 /pet. ether). Mp 172°. Prob. artifact.

Beck, A.B. et al, *Aust. J. Chem.*, 1966, **19**, 1755.

1-(2,4-Dihydroxyphenyl)-3-(4-hydroxyphenyl)-2-propen-1-one, 9CI
2',4,4'-Trihydroxychalcone, 8CI



$C_{15}H_{12}O_4$ M 256.257

Isol. from heartwood of *Pterocarpus marsupium*.

Tri-Me ether: [18493-30-6]. 1-(2,4-Dimethoxyphenyl)-3-(4-hydroxyphenyl)-2-propen-1-one, 9CI. 2',4,4'-Trimethoxychalcone, 8CI. **Metochalcone**, INN. **Lesidrin**. **Versidril**. **CB1314**. **Acrobil**. **Cholesteril**. **Trimepaton**.

Numerous proprietary names

$C_{18}H_{18}O_4$ M 298.338

Choleretic, diuretic. Mp 97°.

Freudenberg, K. et al, *Chem. Ber.*, 1957, **90**, 957 (synth)

Guilleman, P., *Gaz. Hop. Civ. Mil.*, 1958, **130**, 215 (pharmacol, tox)

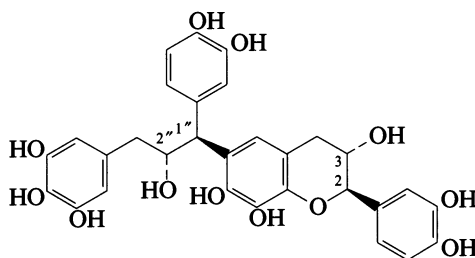
Kovalev, I.P. et al, *Zh. Obshch. Khim.*, 1963, **33**, 1670 (ir)

Batterham, T.J. et al, *Aust. J. Chem.*, 1964, **17**, 428 (nmr)

Lavrushin, V.F. et al, *Zh. Obshch. Khim.*, 1964, **34**, 13 (polarog)

Mathew, J. et al, *J. Indian Chem. Soc.*, 1984, **61**, 728 (isol)

6-[1-(3,4-Dihydroxyphenyl)-2-hydroxy-3-(3,4,5-trihydroxyphenyl)propyl]-3',4',7,8-tetrahydroxyflavan D-10241



$C_{30}H_{28}O_{12}$ M 580.544

(1''S,2R,2'R,3S)-form [109671-59-2]

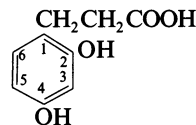
Constit. of the heartwood of *Prosopis glandulosa*.

Young, E. et al, *J. Chem. Soc., Perkin Trans. 1*, 1986, 1737 (isol)

D-10239

3-(2,4-Dihydroxyphenyl)propanoic acid D-10242

2,4-Dihydroxybenzenepropanoic acid, 9CI. 2,4-Dihydroxyhydrocinnamic acid, 8CI. **Hydroumbellic acid** [5631-68-5]



$C_9H_{10}O_4$ M 182.176

Cryst. (C_6H_6 or H_2O). Mp 165°.

Di-Me ether: [22174-29-4].

$C_{11}H_{14}O_4$ M 210.229

Cryst. (EtOH). Mp 105°.

4-Me ether: [21144-17-2].

$C_{10}H_{12}O_4$ M 196.202

Needles (Et_2O /hexane). Mp 91-92°.

4-Me ether, Me ester: [69471-28-9].

$C_{11}H_{14}O_4$ M 210.229

Isol. from *Machaerium kuhlmannii*.

Hurd, C.D. et al, *J. Am. Chem. Soc.*, 1939, **61**, 249 (synth)

Amakasa, T. et al, *J. Org. Chem.*, 1966, **31**, 1433 (ir)

Kametani, T. et al, *J. Chem. Soc. C*, 1969, 4 (synth, deriv)

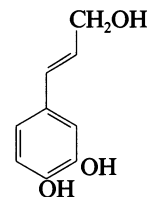
Ollis, W.D. et al, *Phytochemistry*, 1978, **17**, 1383 (isol, deriv)

3-(3,4-Dihydroxyphenyl)-2-propen-1-ol D-10243

Updated Entry replacing D-02672

4-(3-Hydroxy-1-propenyl)-1,2-benzenediol, 9CI. **Caffeyl alcohol**

[3598-26-3]



$C_9H_{10}O_3$ M 166.176

(E)-config. assumed for derivs. except where (Z)-config. is certain.

(E)-form

Mp 144-145°.

3'-Me ether: [458-35-5]. 3-(4-Hydroxy-3-methoxyphenyl)-2-propen-1-ol. 4-(3-Hydroxy-1-propenyl)-2-methoxyphenol, 9CI. **Coniferyl alcohol**. **Lubanol**

$C_{10}H_{12}O_3$ M 180.203

Lignin degradn. substance found in sulfite liquor and in Siam benzoin gum. Prisms. Spar. sol. hot H_2O . Mp 74-75°. Bp₃ 163-165°. pK_{a1} 9.54 (25°). Resinified by acids.

3'-Me ether, 1-O-β-D-glucopyranoside: [65995-51-9].

Citrusin D. **Isoconiferin**

$C_{16}H_{22}O_8$ M 342.345

Isol. from *Citrus limon*, *C. unshiu*, *Fortunella japonica* and *Pinus sylvestris*. Shows antihypertensive props. $[\alpha]_D^{20}$ -16.9° (c, 4.1 in MeOH). λ_{max} 275 nm (ϵ 5000) (MeOH).

3'-Me ether, 4'-O-β-D-glucopyranoside:

[531-29-3]. **Abietin†**. **Coniferin**. **Coniferoside**. **Laricin†**

$C_{16}H_{22}O_8$ M 342.345

Chief glycoside of the Coniferae. Isol. for example from *Larix europaea*, *Fraxinus quadrangulata* and *Scorzonera hispanica*. Needles + 2H₂O. Mp 185°. $[\alpha]_D^{20}$ -66.9° (Py aq.).

3'-Me ether, 1-O-benzoyl: **Lubanol benzoate**

$C_{17}H_{16}O_4$ M 284.311

Isol. from Siam benzoin. Cryst. (Et₂O/pet. ether). Mp 72°.

4'-Me ether, 1,3'-diangeloyl: [21930-88-1].

C₂₀H₂₄O₅ M 344.407

Constit. of *Blumea lacera*. Bp_{0.1} 130°. λ_{max} 256, 295 nm.

3'-Me ether, 4'-O-(3,7-dimethyl-2,6-octadienyl): [129350-09-0]. O-Geranylconiferyl alcohol

C₂₀H₂₈O₃ M 316.439

Constit. of *Fagara rhetza* and *Pteronia* spp. Oil.

(Z)-form

3'-Me ether, 1-O-β-D-glucopyranoside: [66791-74-0].

Faguside

C₁₆H₂₂O₈ M 342.345

Isol. from bark of *Fagus silvatica* and *F. grandifolia*.

Antifeedant against insect pests. [α]_D²⁵ -27.6° (c, 0.13 in MeOH).

3'-Me ether, 4-O-(6-O-galloyl-β-D-glucopyranoside):

[109194-58-3]. cis-Coniferyl alcohol 4-O-(6-

galloylglucopyranoside)

C₂₃H₂₆O₁₂ M 494.451

Isol. from acorns of *Quercus mongolica*. Needles + 1H₂O. Mp 195-196°. [α]_D²⁴ -38.3° (c, 0.7 in MeOH).

[18604-50-7, 113349-27-2]

Tiemann, F. *et al*, *Ber.*, 1874, 7, 608; 1875, 8, 1127; 1878, 11, 659; 1885, 18, 3481 (*synth*)

Zincke, A. *et al*, *Monatsh. Chem.*, 1921, 41, 423; 1922, 42, 447.

Allen, C.F.H. *et al*, *J. Am. Chem. Soc.*, 1949, 71, 2683 (*synth*)

Freudenberg, K. *et al*, *Chem. Ber.*, 1950, 83, 600; 1955, 88, 10 (*isol*)

Hermann, K., *Pharmazie*, 1953, 8, 303; *CA*, 48, 9361.

Plouvier, V., *C. R. Hebd. Seances Acad. Sci.*, 1954, 238, 1835 (*isol*, *Coniferin*)

Bohlmann, F. *et al*, *Tetrahedron Lett.*, 1969, 69 (*Me ether diangeloyl*)

Brunow, G., *Acta Chem. Scand.*, 1972, 26, 1123.

Harmatha, J. *et al*, *Collect. Czech. Chem. Commun.*, 1978, 43, 774 (*Faguside*)

Ishimaru, K. *et al*, *Phytochemistry*, 1987, 26, 1147 (*cis-Coniferyl alcohol galloylglucoside*)

Sawabe, A. *et al*, *Nippon Kagaku Kaishi*, 1988, 62, 1067 (*Citrusin D*)

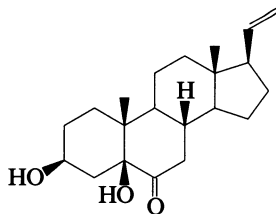
Lewis, N.-G. *et al*, *Phytochemistry*, 1988, 27, 2119 (*Faguside*)

Shibuya, H. *et al*, *Chem. Pharm. Bull.*, 1992, 40, 2325 (*O-Geranylconiferyl alcohol*)

Quideau, S. *et al*, *J. Agric. Food Chem.*, 1992, 40, 1108 (*synth*, *Coniferyl alcohol*)

3,5-Dihydroxypregn-20-en-6-one

D-10244



C₂₁H₃₂O₃ M 332.482

(3β,5β)-form [150999-03-4] **Villosterol**

Constit. of *Turraea villosa*. Cryst. (Me₂CO/pet. ether).

Mp 192-193°. [α]_D -35.29° (c, 0.17 in CHCl₃).

Chiplunkar, Y.G. *et al*, *Phytochemistry*, 1993, 33, 901 (*isol*, *pmr*, *cmr*, *cryst struct*)

3,6-Dihydroxypregn-9(11)-en-20-one, 9CI

D-10245

Updated Entry replacing D-02719

C₂₁H₃₂O₃ M 332.482

(3β,5α,6α)-form [37717-02-5] **Asterosapogenin I. Asterone**

Isol. from *Asterias amurensis* and *Acanthaster planci*.

Mp 162-163°, Mp 193-196°. [α]_D²⁵ +65.2° (CHCl₃).

6-O-(6-Deoxy-β-D-glucopyranoside), 3-O-sulfate: [129602-19-3]. **Forbeside E3**

C₂₇H₄₂O₁₀S M 558.689

Isol. from the starfish *Asterias forbesi*. Powder (as Na salt). Mp 206° (Na salt). [α]_D²⁸ -3.5° (c, 0.004 in H₂O).

Sheikh, Y.M. *et al*, *J. Am. Chem. Soc.*, 1972, 94, 3278 (*isol*)

Ikegami, S. *et al*, *Tetrahedron Lett.*, 1972, 1601 (*isol*)

ApSimon, J.W. *et al*, *Can. J. Chem.*, 1973, 51, 850; 1974, 52, 4113 (*isol*, *synth*)

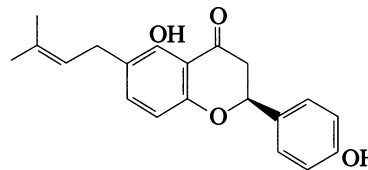
Smith, D.S.H. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1975, 1751 (*synth*)

Findlay, J.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, 53, 710 (*Forbeside E3*)

4',5-Dihydroxy-6-prenylflavanone

D-10246

2,3-Dihydro-5-hydroxy-2-(4-hydroxyphenyl)-6-(3-methyl-2-butenyl)-4H-1-benzopyran-4-one, 9CI. **Crotaramosmin**



C₂₀H₂₀O₄ M 324.376

Isol. from *Crotalaria ramosissima*.

(S)-form [139682-14-7]

Isol. from *C. ramosissima*. Cryst. Mp 116°.

Di-Ac: Cryst. (EtOAc/pet. ether). Mp 136°.

Khaliullah, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, 55, 229 (*isol*, *pmr*, *cmr*)

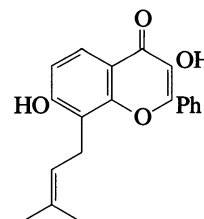
3,7-Dihydroxy-8-prenylflavone

D-10247

3,7-Dihydroxy-8-(3-methyl-2-butenyl)-2-phenyl-4H-1-benzopyran-4-one, 9CI. 7-Hydroxy-8-prenylflavonol.

Maackiaflavanol

[140848-75-5]



C₂₀H₁₈O₄ M 322.360

Constit. of the roots of *Maackia tenuifolia*.

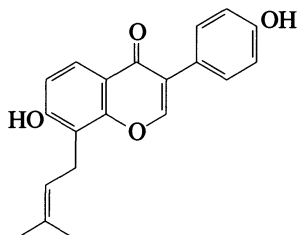
Shen, J. *et al*, *Chin. Chem. Lett.*, 1991, 2, 629 (*isol*, *synth*, *struct*)

4',7-Dihydroxy-8-prenylisoflavone

D-10248

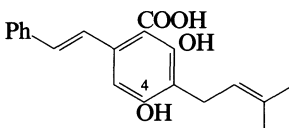
7-Hydroxy-3-(4-hydroxyphenyl)-8-(3-methyl-2-butenyl)-4H-1-benzopyran-4-one, 9CI. 8-Prenyldaidzein

[135384-00-8]

 $C_{20}H_{18}O_4$ M 322.360Constit. of *Erythrina x bidwilli* and *Pueraria lobata*. Pale yellow amorph. powder.Hakamatsuka, T. *et al*, *Phytochemistry*, 1991, **30**, 1481 (*isol*)Inuma, M. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2749 (*isol*)**2,4-Dihydroxy-3-prenyl-6-styrylbenzoic acid**

D-10249

2,4-Dihydroxy-3-(3-methyl-2-butenyl)-6-(2-phenylethenyl)benzoic acid. 1-Carboxy-2,4-dihydroxy-3-prenylstilbene

 $C_{20}H_{20}O_4$ M 324.376**(E)-form**

4-Me ether: [87402-84-4]. 2-Hydroxy-4-methoxy-3-(3-methyl-2-butenyl)-6-(2-phenylethenyl)benzoic acid. 2-Hydroxy-4-methoxy-3-prenyl-6-styrylbenzoic acid

 $C_{21}H_{22}O_4$ M 338.402Constit. of *Cajanus cajan*. Phytoalexin. Pale yellow needles (MeOH aq.). Mp 150-165°.

[86660-10-8]

Cooksey, C.J. *et al*, *Phytochemistry*, 1982, **21**, 2935.**4,6-Dihydroxy-3-prenyl-2-styrylbenzoic acid**

D-10250

4,6-Dihydroxy-3-(3-methyl-2-butenyl)-2-(2-phenylethenyl)benzoic acid. 1-Carboxy-2,4-dihydroxy-5-prenylstilbene

 $C_{20}H_{20}O_4$ M 324.376**(E)-form**

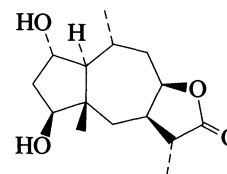
4-Me ether: [87402-83-3]. 6-Hydroxy-4-methoxy-3-(3-methyl-2-butenyl)-2-(2-phenylethenyl)benzoic acid. 6-Hydroxy-4-methoxy-3-prenyl-2-styrylbenzoic acid

 $C_{21}H_{22}O_4$ M 338.402Constit. of *Cajanus cajan*. Phytoalexin. Pale yellow needles (MeOH aq.). Mp 144-146°.

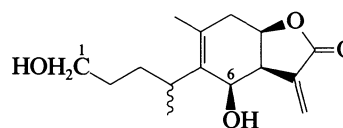
[86660-09-5]

Cooksey, C.J. *et al*, *Phytochemistry*, 1982, **21**, 2935.**2,4-Dihydroxy-12,8-pseudoguaianolide**

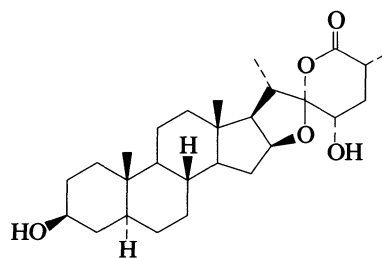
D-10251

 $C_{15}H_{24}O_4$ M 268.352**(1 α ,2 α ,4 β ,5 β ,8 β ,10 α ,11 β H)-form** [124961-64-4]Constit. of *Gaillardia grandiflora*. Oil. $[\alpha]_D^{27} + 78.4^\circ$ (c, 0.102 in $CHCl_3$).Harimaya, K. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2525 (*isol*, *pmr*, *cmr*)**1,6-Dihydroxy-1,10-seco-5(10),11(13)-eudesmien-12,8-olide**

D-10252

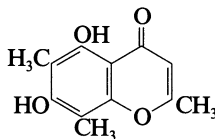
 $C_{15}H_{22}O_4$ M 266.336**(4 ξ ,6 β ,8 β)-form****Britannilactone**Constit. of *Inula britannica*. Cryst. ($CHCl_3/Me_2CO$). Mp 175-177°. $[\alpha]_D + 91.3^\circ$ (c, 0.092 in MeOH).**1-Ac:** $C_{17}H_{24}O_5$ M 308.374Constit. of *I. britannica*. Needles. Mp 124-126°. $[\alpha]_D + 101.6^\circ$ (c, 0.264 in $CHCl_3$).**Di-Ac:** $C_{19}H_{26}O_6$ M 350.411Constit. of *I. britannica*. Needles. Mp 84-85°. $[\alpha]_D + 37.5^\circ$ (c, 0.171 in $CHCl_3$).Zhou, B.-N. *et al*, *Phytochemistry*, 1993, **34**, 249 (*isol*, *pmr*, *cmr*)**3,23-Dihydroxyspirostan-26-one, 9CI**

D-10253

 $C_{27}H_{42}O_5$ M 446.626**(3 β ,5 α ,23S,25R)-form**3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranoside]: [137038-72-3]. **Soladulcoside B** $C_{45}H_{72}O_{18}$ M 901.053Constit. of the aerial parts of *Solanum dulcamara*. Powder. $[\alpha]_D - 79.2^\circ$.Yamashita, T. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1626.

5,7-Dihydroxy-2,6,8-trimethyl-4*H*-1-benzopyran-4-one, 9*Cl*

5,7-Dihydroxy-2,6,8-trimethylchromone. **8-Methyleugenitol**
[41682-21-7]



$C_{12}H_{12}O_4$ M 220.224

Constit. of *Dianella ensifolia* and *Marsdenia tinctoria* var. *tomentosa*. Cryst. (MeOH). Mp 282°.

7-O-(6-O-Acetyl- β -D-glucopyranoside): [41666-58-4].

Galapagin

$C_{20}H_{24}O_{10}$ M 424.404

Isol. from the lichen *Roccella galapagoensis*. Pale yellow needles (MeOH). Mp 163-165°. Wrong MF given in CA.

Huneck, S. et al, *J. Prakt. Chem.*, 1972, **314**, 488 (*synth*)

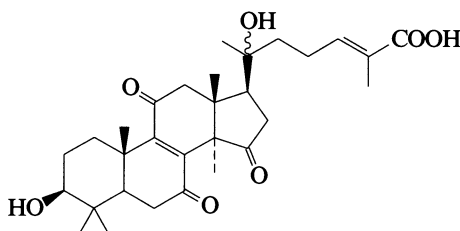
Ito, K. et al, *Yakugaku Zasshi*, 1978, **98**, 1285 (*isol*)

Lojanapiwatna, V. et al, *CA*, 1982, **97**, 178728 (*isol*)

Huneck, S. et al, *Z. Naturforsch., B*, 1992, **47**, 449 (*Galapagin*)

3,20-Dihydroxy-7,11,15-trioxolanosta-8,24-dien-26-oic acid

D-10255



$C_{30}H_{42}O_7$ M 514.658

(**3 β ,20 ξ ,24E**)-form [150033-91-3] **Ganoderic acid V₁**

Metab. of *Ganoderma lucidum*. Cryst. Mp 234-234.5°.

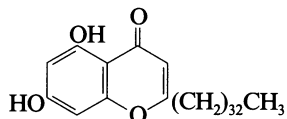
$[\alpha]_D^{21} + 100^\circ$ (c, 0.12 in $CHCl_3$).

Hirotoni, M. et al, *Phytochemistry*, 1993, **33**, 379 (*isol*, *pmr*, *cmr*)

5,7-Dihydroxy-2-tritriacontyl-4*H*-1-benzopyran-4-one

D-10256

5,7-Dihydroxy-2-tritriacontylchromone



$C_{42}H_{72}O_4$ M 641.028

7-Me ether: [144049-68-3]. 5-Hydroxy-7-methoxy-2-tritriacontyl-4*H*-1-benzopyran-4-one, 9*Cl*. 5-Hydroxy-7-methoxy-2-tritriacontylchromone

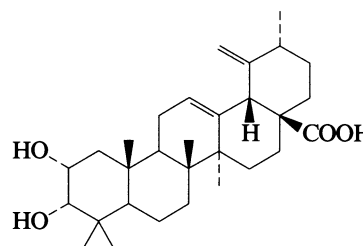
$C_{43}H_{74}O_4$ M 655.055

Constit. of *Agave americana*. Exhibits antibacterial activity. Needles ($CHCl_3$ /pet. ether). Mp 83°.

Parmer, V.S. et al, *Tetrahedron*, 1992, **48**, 1281.

2,3-Dihydroxy-12,19(29)-ursadien-28-oic acid

D-10257



(**2 α ,3 α**)-form

$C_{30}H_{46}O_4$ M 470.691

(**2 α ,3 α**)-form

β -D-Glucopyranosyl ester: [146787-96-4]. **Alpinoside**

$C_{36}H_{56}O_9$ M 632.833

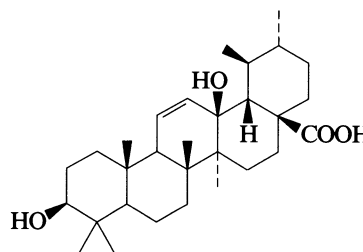
Constit. of *Sanguisorba alpina*. Amorph. powder. Mp 247-249.5°. $[\alpha]_D^{15} + 7.5^\circ$ (c, 0.2 in MeOH).

Jia, Z.-J. et al, *Phytochemistry*, 1993, **32**, 155.

3,13-Dihydroxy-11-ursen-28-oic acid

D-10258

Updated Entry replacing D-02889



$C_{30}H_{48}O_4$ M 472.707

(**3 β ,13 β**)-form

20 \rightarrow 13 Lactone: [35959-05-8]. **3 β -Hydroxy-11-ursen-28,13-olide. 11,12-Dehydrousolic acid lactone**

$C_{30}H_{46}O_3$ M 454.692

Isol. from *Eucalyptus robusta* and *E. tereticornis*. Cryst. Mp 278° (262-265°) dec. $[\alpha]_D^{10} + 44^\circ$.

20 \rightarrow 13 Lactone, 3-Ac: [35959-08-1].

$C_{32}H_{48}O_4$ M 496.729

Constit. of the waxes of *E. spp.*, *Euclea natalensis* and from *Pieris japonica*. Cryst. (EtOAc). Mp 252°. $[\alpha]_D^{20} + 46^\circ$ ($CHCl_3$).

20 \rightarrow 13-Lactone, 3-O-(*p*-hydroxycinnamoyl): **Tereticornate B**

$C_{39}H_{52}O_5$ M 600.837

Constit. of *Eucalyptus tereticornis*. Cryst. (MeOH). Mp 270-274°. $[\alpha]_D + 37.3^\circ$ (c, 1 in $CHCl_3$).

20 \rightarrow 13 Lactone, 3-O-(4-hydroxy-3-methoxycinnamoyl):

Tereticornate A

$C_{40}H_{54}O_6$ M 630.863

Constit. of *E. tereticornis*. Cryst. (MeOH). Mp 267-270°. $[\alpha]_D + 27^\circ$ (c, 1 in $CHCl_3$).

Horn, D.H.S. et al, *Aust. J. Chem.*, 1964, **17**, 477 (*isol*)

Mezzetti, T. et al, *Planta Med.*, 1970, **18**, 326; 1971, **20**, 244 (*isol*, *synth*)

Schiaffella, F. et al, *Phytochemistry*, 1975, **14**, 584 (*isol*)

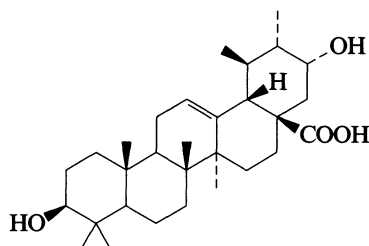
Katai, M. et al, *Chem. Pharm. Bull.*, 1983, **31**, 1567 (*isol*)

Wang, H. et al, *Phytochemistry*, 1993, **33**, 151 (*Tereticornates*)

3,21-Dihydroxy-12-ursen-28-oic acid

D-10259

Updated Entry replacing D-02892

C₃₀H₄₈O₄ M 472.707**(3β,21α)-form** [101512-28-1] **21α-Hydroxyursolic acid**

Constit. of *Amaracus dictamnus*. Cryst. (CHCl₃) (as Me ester). Mp 214° (Me ester). [α]_D²¹ + 24° (CHCl₃) (Me ester).

(3β,21β)-form**21β-Hydroxyursolic acid**

Constit. of *Satureia acinos*. Cryst. (EtOAc/hexane). Mp 292-295°. [α]_D²⁰ + 37.3° (c, 0.1 in MeOH).

3-O-[α-L-Arabinopyranosyl-(1→2)-β-D-glucuronopyranoside]: [117804-12-3]. **Cynarasaponin F**C₄₁H₆₄O₁₄ M 780.948

Constit. of *Cynara cardunculus*. Powder + 1½H₂O (as di-Me ester). [α]_D²⁵ + 23.4° (c, 0.47 in MeOH)(di-Me ester).

3-O-[α-L-Arabinopyranosyl-(1→2)-β-D-glucuronopyranoside], β-D-glucopyranosyl ester: [117804-13-4]. **Cynarasaponin G**C₄₇H₇₄O₁₉ M 943.090

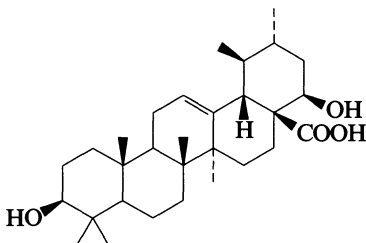
Constit. of *C. cardunculus*. Powder + 2H₂O (as Me ester). [α]_D²⁵ + 11.1° (c, 0.85 in MeOH)(Me ester).

[117804-19-0, 117804-21-4]

Escudero, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1985, **48**, 128.Piozzi, F. *et al*, *Phytochemistry*, 1986, **24**, 539.Shimizu, S. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 2466 (*Cynarasaponins*)

3,22-Dihydroxy-12-ursen-28-oic acid

D-10260

C₃₀H₄₈O₄ M 472.707**(3β,22β)-form****3-(3-Methylbutanoyl): Lantaiursolic acid**C₃₅H₅₆O₅ M 556.824

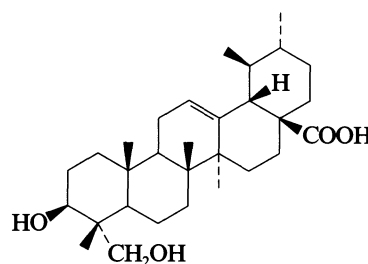
Constit. of *Lantana camara*. Cryst. Mp 218-220°. [α]_D + 37.5° (c, 0.96 in CHCl₃).

Pan, W.D. *et al*, *Acta Pharm. Sin.*, 1993, **28**, 40.

3,23-Dihydroxy-12-ursen-28-oic acid

D-10261

Updated Entry replacing D-02894

C₃₀H₄₈O₄ M 472.707**3β-form**

Constit. of *Guettarda angelica*, *Hedyotis lawsoniae* and *Cigarrilla mexicana*. Mp 180-181.5°, Mp 266-268°.

Di-Ac, Me ester: [94492-28-1].

Needles (EtOH). Mp 180-181.5°. [α]_D²¹ + 64.1° (c, 0.22 in CHCl₃).

3-Ketone: 23-Hydroxy-3-oxo-12-ursen-28-oic acidC₃₀H₄₆O₄ M 470.691

Isol. from *Cussonia natalensis*. Cryst. (EtOAc). Mp 170°.

23-Carboxylic acid: 3β-Hydroxy-12-ursene-23,28-dioic acidC₃₀H₄₆O₅ M 486.690

Isol. from *Schefflera octophylla*. Powder. Mp 160-162°.

[α]_D²⁰ + 37° (c, 0.12 in MeOH).**23-Carboxylic acid, 28-O-[α-L-rhamnopyranosyl(1→4)-β-D-glucopyranosyl(1→6)-β-D-glucopyranoside]:**C₄₈H₇₆O₁₉ M 957.117

Constit. of *S. octophylla*. Powder. Mp 232-234°. [α]_D²⁰ - 10° (c, 0.39 in MeOH).

3-O-β-D-Glucuronopyranoside, 28-O-β-D-glucopyranosyl ester: [117804-11-2]. **Cynarasaponin E**C₄₂H₆₆O₁₅ M 810.974

Constit. of *Cynara cardunculus*. Powder + 2H₂O (as Me ester). [α]_D²⁵ + 3.7° (c, 0.95 in MeOH) (Me ester).

3-O-[α-L-Arabinopyranosyl-(1→2)-β-D-glucuronopyranoside], 28-O-β-D-glucopyranosyl ester: [117804-10-1].**Cynarasaponin D**C₄₇H₇₄O₁₉ M 943.090

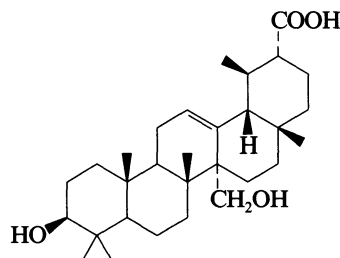
Constit. of *Cynara cardunculus*. Powder + 2H₂O (as Me ester). [α]_D²⁵ + 7.6° (c, 1.16 in MeOH), (Me ester).

[117827-84-6, 117849-92-0]

Kikuchi, T. *et al*, *Chem. Pharm. Bull.*, 1984, **32**, 3906 (*isol*)Sousa, M.P. *et al*, *Phytochemistry*, 1984, **23**, 2589 (*isol*)Shimizu, S. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 2466(*Cynarasaponins*)Mata, R. *et al*, *Phytochemistry*, 1988, **27**, 1887.Fourie, G. *et al*, *Phytochemistry*, 1989, **28**, 2851 (*isol, pmr, cmr*)Sung, T.V. *et al*, *Phytochemistry*, 1992, **31**, 227 (*23,28-dioic acid*)

3,27-Dihydroxy-12-ursen-30-oic acid

D-10262

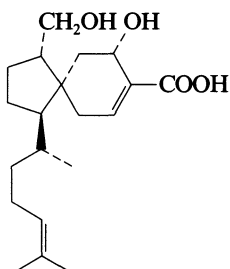
C₃₀H₄₈O₄ M 472.707**3β-form**

27-(3-(4-Hydroxyphenyl)-2-propenoyl): [147044-48-2].

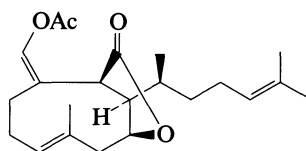
Obtusilic acid

C₃₉H₅₄O₆ M 618.852Constit. of *Plumeria obtusa*. Needles (CHCl₃/MeOH). Mp 290-291°.Siddiqui, S. *et al*, *Phytochemistry*, 1992, **31**, 4279 (*isol*, *pmr*, *cmr*, *ms*)**5,19-Dihydroxy-3,14-viscidadien-20-oic acid** D-10263

[110623-74-0]

C₂₀H₃₂O₄ M 336.470Constit. of *Eremophila exotrichys*. Oil (as Me ester). Bp_{0.1} 190° (bath) (Me ester). [α]_D +101.7° (c, 1 in CHCl₃) (Me ester).Forster, P.G. *et al*, *Aust. J. Chem.*, 1986, **39**, 2111 (*isol*, *pmr*)**Dilopholide**

D-10264

C₂₂H₃₂O₄ M 360.492Constit. of *Dilophus ligulatus*. Oil. [α]_D -113.7° (c, 0.86 in CHCl₃).Bouaicha, N. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1747 (*isol*, *pmr*, *cmr*)**2,4-Dimethoxybenzoic acid**

D-10265

β-Resorcylic acid dimethyl ether

[91-52-1]

C₉H₁₀O₄ M 182.176Constit. of stems and leaves of *Anthyllis sericea*. Cryst. (H₂O or hexane). Mp 108-109°. pK_{a1} 4.36 (25°).*Me ester*: [2150-41-6].C₁₀H₁₂O₄ M 196.202Bp 294-296°, Bp₁₃ 160-162°.*Anhydride*:C₁₈H₁₈O₇ M 346.336

Cryst. (EtOAc/pet. ether). Mp 81-82°.

Nitrile: [4107-65-7]. 1-Cyano-2,4-dimethoxybenzeneC₉H₉NO₂ M 163.176

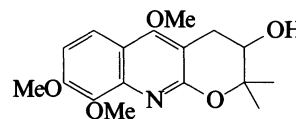
Mp 91°.

[1521-95-5, 39828-35-8]

Theresa, Y.M. *et al*, *Aust. J. Chem.*, 1968, **21**, 1633 (*synth*)*Org. Synth.*, 1970, **50**, 52 (*deriv*)Marco, J.A. *et al*, *Phytochemistry*, 1978, **17**, 1438 (*occur*)**8,9-Dimethoxygeibalansine**

D-10266

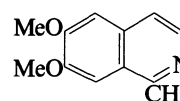
[142741-29-5]

C₁₇H₂₁NO₅ M 319.357Alkaloid from stem bark of *Dutaillieya baudouinii* (Rutaceae).Muyard, F. *et al*, *Phytochemistry*, 1992, **31**, 1087 (*isol*, *uv*, *ir*, *pmr*, *ms*, *struct*)**6,7-Dimethoxy-1-methylisoquinoline, 9CI** D-10267

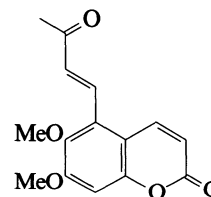
Updated Entry replacing D-02981

Isosalsolidine. *Nigellimine*

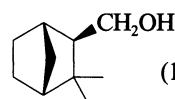
[4594-02-9]

C₁₂H₁₃NO₂ M 203.240Alkaloid detected in *Pachycereus weberi* by tandem mass spectrom. (Cactaceae). Trace constit. in seeds of *Nigella sativa* (Ranunculaceae). Cryst. (Et₂O/EtOAc). Mp 118-119°.*N-Oxide*: *Nigellimine N-oxide*C₁₂H₁₃NO₃ M 219.240Minor alkaloid from the seeds of *Nigella sativa* (Ranunculaceae). Amorph.Roush, R.A. *et al*, *Anal. Chem.*, 1985, **57**, 109 (*occur*)Atta-ur-Rahman, *et al*, *Heterocycles*, 1985, **23**, 953 (*oxide*)Atta-ur-Rahman, *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 676 (*isol*)**6,7-Dimethoxy-5-(3-oxo-1-butenyl)-2H-1-benzopyran-2-one** D-10268

[146607-48-9]

C₁₅H₁₄O₅ M 274.273Probable struct. Struct. revised in 1992. Constit. of *Toddalia asiatica*. Fine pale yellow needles (Me₂CO). Mp 186.5-188.5° (176-180°).Ishii, H. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2614 (*synth*, *struct*, *bibl*)**3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol, 9CI** D-10269*3,3-Dimethyl-2-norbornanemethanol*, 8CI. *Camphanol*

[27899-45-2]

(1*R*,2*R*,4*S*)-formC₁₀H₁₈O M 154.252Constit. of oil of armoise (*Artemisia* sp.).

(1R,2R,4S)-form [81601-70-9]

exo-form

3,5-Dinitrobenzoyl: [114977-14-9].

Leaflets (EtOH). Mp 77-78°.

(1R,2S,4S)-form [81601-68-5]

endo-form

Mp 88-88.5°. [α]_D +9.2° (c, 3.5 in CHCl₃).

3,5-Dinitrobenzoyl: [114927-01-4].

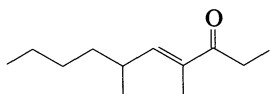
Leaflets (EtOH). Mp 86-88°.

4-Methylbenzenesulfonyl: [81601-69-6].

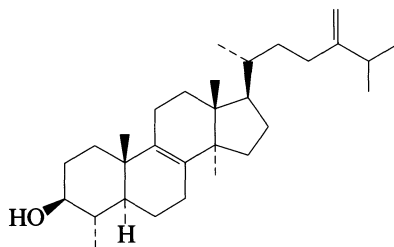
Mp 48-48.5° (39-41°).

O-[D-Apio- β -D-furanosyl-(1 \rightarrow 6)- β -D-glucopyranoside]:[114892-58-9]. **Shionoside A**C₂₁H₃₆O₁₀ M 448.509Constit. of the roots of *Aster tataricus*. Needles (EtOAc/MeOH). Mp 163-164°. [α]_D²² –79.3° (c, 1.05 in MeOH).O-Rutinoside: [114892-59-0]. **Shionoside B**C₂₂H₃₈O₁₀ M 462.536Constit. of the roots of *A. tataricus*. Needles (EtOAc/MeOH). Mp 109-111°. [α]_D²² –50.5° (c, 0.6 in MeOH).

[18310-55-9, 18410-94-1, 63373-82-0, 67560-14-9, 72188-57-9, 105453-57-4]

Biellmann, J.F. *et al*, *J. Org. Chem.*, 1982, **47**, 2882 (*synth*)Buchbauer, G. *et al*, *Monatsh. Chem.*, 1982, **113**, 1433; 1983, **114**, 113 (*synth*, *pmr*)Falorni, M. *et al*, *J. Org. Chem.*, 1986, **51**, 5291 (*synth*)Nagao, T. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 571 (*synth*, *Shionosides*)**4,6-Dimethyl-4-decen-3-one****D-10270**C₁₂H₂₂O M 182.305Constit. of the essential oil of *Evernia prunastri*.**(E)-form** [111187-59-8] **Bishomomanicone**Constit. of the mandibular gland secretion of the ant *Manica rubida*.Corbier, B. *et al*, *Recherches*, 1974, **19**, 289 (*isol*)Bestmann, H.J. *et al*, *Justus Liebigs Ann. Chem.*, 1988, 55 (*isol*, *pmr*)**4,14-Dimethylergosta-8,24(28)-dien-3-ol****D-10271**

4,14,24-Trimethylcholesta-8,24(28)-dien-3-ol

C₃₀H₅₀O M 426.724**(3 β ,4 α ,5 α)-form** [16910-32-0] **Obtusifoliol**

Constit. of numerous plant spp. Mp 144°.

[89955-50-0, 121250-35-9]

Barrera, J.B. *et al*, *CA*, 1967, **67**, 108792g (*struct*)Itoh, T. *et al*, *Phytochemistry*, 1978, **17**, 971 (*isol*)Xu, S. *et al*, *J. Chromatogr.*, 1988, **452**, 377 (*chromatog*)**4,14-Dimethylergosta-9(11),24(28)-dien-3-ol****D-10272**

4,14-Dimethyl-24-methylenecholest-9(11)-en-3-ol

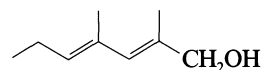
C₃₀H₅₀O M 426.724**(3 β ,4 α ,5 α)-form** [77704-66-6]Isol. from seeds of *Phaseolus vulgaris*. Mp 105-107° (as acetate).

[105097-80-1, 108944-19-0]

Akihisa, T. *et al*, *Phytochemistry*, 1989, **28**, 1219 (*isol*)**Dimethylformamide, 9CI****D-10273**

Formyldimethylamine

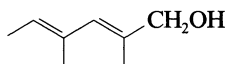
[68-12-2]

HCONMe₂C₃H₇NO M 73.094Constit. of *Astragalus cibaricus*. Manuf. by carbonylation of dimethylamine or by reaction between methyl formate and dimethylamine. Widely used aprotic solv. and reagent in org. synth. and chemical analysis. Liq. Misc. H₂O, EtOH, Et₂O, C₆H₆, CHCl₃. d₄^{22.4} 0.945. Mp –61°. Bp 153°, Bp₃₉ 76°. n_D^{22.4} 1.4294.▷ Reacts violently with many materials. Possible human carcinogen. May increase skin absorption of other carcinogens. Skin and eye irritant. Symptoms of occup. exposure include anorexia, abdominal pain, nausea, headache, dizziness. Hepatotoxic. LD₅₀ (rat, orl) 2800 mg/kg. Exp. reprod. and teratogenic effects. LQ2100000.Benneville, P.L. *et al*, *J. Org. Chem.*, 1956, **21**, 772 (*synth*)Stermitz, F.R. *et al*, *Phytochemistry*, 1972, **11**, 1117 (*occur*)McClelland, R.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1974, 824 (*pmr*)Pizey, J.S., *Synth. Reagents*, Ellis Horwood, 1974, **1**, 1 (*rev*, *bibl*)Large, R. *et al*, *Org. Mass Spectrom.*, 1976, **11**, 582 (*ms*)Kudo, K. *et al*, *Chem. Lett.*, 1977, 1495 (*synth*)Fritz, H. *et al*, *Org. Magn. Reson.*, 1977, **9**, 108 (*cmr*)Sandell, E.B. *et al*, *Photometric Determination of Traces of Metals*, Wiley, New York, 1978 (*use*)*Kirk-Othmer Encycl. Chem. Technol.*, 3rd Ed., Wiley, N.Y., 1978-1984, **11**, 263 (*rev*)*Fieser and Fieser's Reagents for Organic Synthesis*, Wiley, 1980, **8**, 189.Shono, T. *et al*, *Acta Chem. Scand., Ser. B*, 1983, **37**, 491 (*synth*)*Aldrich Library of FT-IR Spectra*, 1st edn., 1985, **1**, 758D (*ir*)Gescher, A., *Chem. Br.*, 1990, 435 (*tox*)Hargittai, I. *et al*, *J. Phys. Chem.*, 1993, **97**, 4966 (*ed*, *struct*)*Martindale. The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, London, 1993, 1102.Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, DSB000.*Ethel Browning's Toxicity and Metabolism of Industrial Solvents*, 2nd edn., (Snyder, R., ed.), Elsevier, Volume 2, 1990, 149 (*tox*)Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworth, London and Boston, 1990, 1184.Luxon, S.G., *Hazards in the Chemical Laboratory*, 5th edn., Royal Society of Chemistry, Cambridge, 1992, 508.**2,4-Dimethyl-2,4-heptadien-1-ol****D-10274**C₉H₁₆O M 140.225

(E,E)-form [62332-67-6]

Constit. of the defense secretions of *Leiobunum leiopenis*.
Liq. Bp₈ 96-99°.

Jones, T.H. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1977, **74**, 419
(*isol*)

2,4-Dimethyl-2,4-hexadien-1-ol**D-10275**C₈H₁₄O M 126.198**(E,E)-form** [62332-66-5]

Constit. of the defence secretions of some *Leiobunum*
spp. Liq. Bp₈ 83-85°, Bp_{0.05} 48-50°.

Aldehyde: [62332-65-4]. 2,4-Dimethyl-2,4-hexadienal

C₈H₁₂O M 124.182

Constit. of the defense secretion of some *L.* spp. Oil.
Bp₃₉ 110-120°.

Aldehyde, 2,4-dinitrophenylhydrazone: [136464-82-9].

Cryst. + ½H₂O (EtOH). Mp 174-176°.

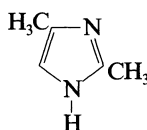
Jones, T.H. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1977, **74**, 419
(*isol*)

Bartelt, R.J. *et al*, *J. Agric. Food Chem.*, 1990, **38**, 2192 (*synth*)

Patel, P. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1991, 1941 (*synth*)

2,4-Dimethyl-1H-imidazole**D-10276**

[930-62-1]

C₅H₈N₂ M 96.132

Probable artifact from the flowers of *Sophora flavescens*.

Constit. of tobacco smoke. Cryst. Mp 92° (*in vacuo*).

Bp_{0.02} 118-120°. pK_a 8.36 (25°).

B,HCl: [70807-88-4].

Hygroscopic needles (EtOH/Et₂O). Mp 205°.

[1689-36-7, 126311-05-5]

Weidenhagen, R. *et al*, *Ber.*, 1935, **68**, 1960 (*synth*)

Scheinbaum, M.L. *et al*, *Tetrahedron Lett.*, 1971, 2205 (*synth*)

Casey, M. *et al*, *J. Chem. Soc., Chem. Commun.*, 1982, 714 (*synth*)

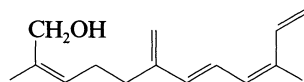
Murakoshi, I. *et al*, *Phytochemistry*, 1982, **21**, 2379 (*isol*)

Garcia, M.L.S. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1983, 1391

(*nqr*)

Watanabe, T. *et al*, *J. Heterocycl. Chem.*, 1983, **20**, 1277 (*synth*)

Lipshutz, B.H. *et al*, *J. Org. Chem.*, 1983, **48**, 3745 (*synth*)

2,10-Dimethyl-6-methylene-2,7,9,11-dodecatetraen-1-ol**D-10277**C₁₅H₂₂O M 218.338**(7E,9Z)-form****Porninsol**

Isolated as a mixture of fatty acid esters from *Lactarius*
porninsis. Released when the fruiting bodies are injured.

1-Aldehyde: 2,10-Dimethyl-6-methylene-2,7,9,11-
dodecatetraen-1-al. **Porninsal**

C₁₅H₂₀O M 216.322

Released when *L. porninsis* fruiting bodies are injured.

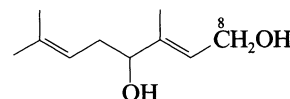
Gamba-Invernizzi, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1948
(*isol*, *pmr*, *cmr*)

3,7-Dimethyl-2,6-octadiene-1,4-diol**D-10278**

Updated Entry replacing D-03191

Rosiridol

[101391-01-9]

C₁₀H₁₈O₂ M 170.251

Struct. of Rosiridol questioned (1993). Constit. of *Rhodiola*
rosea. Oil. [α]_D²⁰ -7.7° (c, 1.3 in Me₂CO).

8-O-β-D-Glucopyranoside: [100462-37-1]. **Rosiridin**

C₁₆H₂₈O₇ M 332.393

From *R. rosea*. Oil. [α]_D²⁰ -32.7° (c, 1.1 in Me₂CO).

Enantiomer: Isorosiridol

C₁₀H₁₈O₂ M 170.251

Oil. [α]_D²⁰ +25°.

Enantiomer, di-Ac:

C₁₄H₂₂O₄ M 254.325

Constit. of *Cunila spicata*. Oil. [α]_D²⁰ -27° (c, 1.4 in
Me₂CO).

Kurkin, V.A. *et al*, *Khim. Prir. Soedin.*, 1985, **21**, 593.

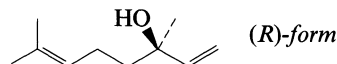
Manns, D., *Planta Med.*, 1993, **59**, 171 (*isol*, *pmr*, *cmr*)

3,7-Dimethyl-1,6-octadien-3-ol**D-10279**

Updated Entry replacing D-03196

Linalool. *Linalol*. *Linalyl alcohol*. *Licareol*. *Coriandrol*

[78-70-6]

C₁₀H₁₈O M 154.252

Prod. synthetically by several routes. Used extensively in
perfumery industry. Important intermed. in manuf. of α-
Tocopherol, T-01508.

► Mod. toxic. RG5775000.

(R)-form [126-91-0]

Constit. of many essential oils including *Melissa*
officinalis (lemon balm), rose, neroli and lavender.

Major component of oil of *Mentha arvensis*. Shows

sedative and antibacterial props.; active ingredient of

herbal medicines containing lemon balm extracts. Oil.

Bp₇₅₆ 197-200°. [α]_D²⁰ -17°.

3-O-[α-L-Rhamnopyranosyl-(1→2)-glucopyranoside]:

AnatoliosideC₂₂H₃₈O₁₀ M 462.536

Constit. of *Viburnum orientale*. Amorph. powder. [α]_D²⁰
-31.4° (c, 0.29 in MeOH).

3-O-[(6-Hydroxy-2,6-dimethyl-2,7-octadienyl)-(1→4)-α-L-
rhamnopyranosyl-(1→2)-β-D-glucopyranoside]:

Anatolioside AC₃₂H₅₂O₁₂ M 628.756

Constit. of *V. orientale*. Amorph. powder. [α]_D²⁰ -40.1°
(c, 0.39 in MeOH).

(S)-form [126-90-9]

Constit. of coriander and other essential oils. Major

component of oil of *Cryptocarya moschata* and *C.*

aschersoniana. Oil. Bp 198-200°, Bp₂₀ 85-90°.

3-O-β-D-Glucopyranoside: [82928-12-9].

C₁₆H₂₈O₆ M 316.394

Constit. of fronds of *Arachniodes maximowiczii*. Oil.
[α]_D²² – 160° (c, 4.0 in MeOH).

3-O- $[\beta$ -L-Fucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]:

C₂₂H₃₈O₁₀ M 462.536

Constit. of fronds of *A. maximowiczii*. Syrup. [α]_D²² – 27° (c, 2.0 in MeOH).

(ξ)-form

Ac: [115-95-7]. Linalool acetate

C₁₂H₂₀O₂ M 196.289

Isol. from numerous plants.

(\pm)-form [22564-99-4]

Bp 198°. n_D^{20} 1.4616.

Ohloff, G. *et al*, *Tetrahedron*, 1962, **18**, 37 (*abs config*)

Naves, Y.R. *et al*, *Helv. Chim. Acta*, 1963, **46**, 1056, 2551 (*isol, w*)

Wilhelm, B. *et al*, *Acta Chem. Scand.*, 1964, **18**, 1573 (*ms*)

Nair, G.V. *et al*, *Tetrahedron Lett.*, 1966, 5097 (*synth*)

Suga, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 1480 (*biosynth*)

Karrer, W. *et al*, *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd Ed., Birkhäuser Verlag, Basel, 1972-1985, no. 120 (*occur*)

Bohlmann, F. *et al*, *Org. Magn. Reson.*, 1975, **7**, 426 (*cmr*)

Takabe, K. *et al*, *Tetrahedron Lett.*, 1975, 3005 (*synth*)

Julia, M. *et al*, *Bull. Soc. Chim. Fr.*, 1976, 513 (*synth*)

Scarborough, R.M. *et al*, *J. Org. Chem.*, 1979, **44**, 1742 (*synth*)

Tange, K. *et al*, *Bull. Chem. Soc. Jpn.*, 1981, **54**, 2763 (*biosynth*)

Tanaka, N. *et al*, *Chem. Pharm. Bull.*, 1986, **34**, 1015 (*derivs*)

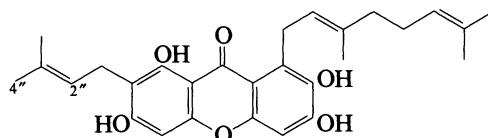
Ohwa, M. *et al*, *J. Org. Chem.*, 1986, **51**, 2599 (*synth*)

Howell, A.R. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1990, 2715 (*synth*)

Çaliş, I. *et al*, *Helv. Chim. Acta*, 1993, **76**, 416 (*Anatoliosides*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, LFX000, LFY000.

1-(3,7-Dimethyl-2,6-octadienyl)-2,3,6,8-tetrahydroxy-7-(3-methyl-2-butenyl)xanthone **D-10280**



C₂₈H₃₂O₆ M 464.557

(*E*)-form

2-Me ether: [21044-85-9]. 1-Geranyl-3,6,8-trihydroxy-2-methoxy-7-prenylxanthone. **Cowanin**

C₂₉H₃₄O₆ M 478.584

Isol. from *Garcinia cowa*.

2-Me ether, 4"-hydroxy: [21044-79-1]. **Cowanol**

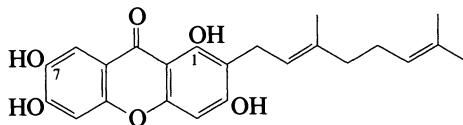
C₂₉H₃₄O₇ M 494.583

Isol. from *G. cowa*.

▷ C-2" config. not determined.

Krahn, M.M., *Diss. Abstr. Int.*, **B**, 1968, **29**, 941.

2-(3,7-Dimethyl-2,6-octadienyl)-1,3,6,7-tetrahydroxyxanthone **D-10281**



C₂₃H₂₄O₆ M 396.439

(*E*)-form

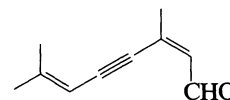
7-Me ether: [21044-78-0]. 2-Geranyl-1,3,6-trihydroxy-7-methoxyxanthone. **Cowaxanthone**

C₂₄H₂₆O₆ M 410.466

Isol. from *Garcinia cowa*.

Krahn, M.M., *Diss. Abstr. Int.*, **B**, 1968, **29**, 941.

3,7-Dimethyl-2,6-octadien-4-ynal **D-10282**



C₁₀H₁₂O M 148.204

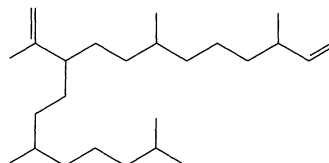
(*Z*)-form [142474-79-1] **Taxifolial D**

Constit. of *Caulerpa taxifolia*. Oil.

Guerrero, A. *et al*, *Helv. Chim. Acta*, 1992, **75**, 689 (*isol, pmr, cmr*)

3-(3,7-Dimethyloctyl)-2,6,10-trimethyl-1,11-dodecadiene **D-10283**

10-Isopropenyl-3,7,13,17-tetramethyl-1-octadecane [149402-60-8]



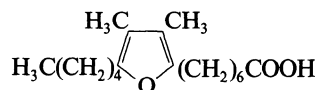
C₂₅H₄₈ M 348.654

Constit. of diatomaceous microbial communities. Oil. [α]_D + 1.8° (c, 0.18 in CHCl₃).

Summons, R.E. *et al*, *Aust. J. Chem.*, 1993, **46**, 907 (*isol, ms, pmr, cmr*)

3,4-Dimethyl-5-pentyl-2-furanheptanoic acid, 9CI **D-10284**

8,11-Epoxy-9,10-dimethyl-8,10-hexadienoic acid. *F*₀ acid [92745-17-0]



C₁₈H₃₀O₃ M 294.433

Component of *F* acid fraction present in human and beef blood serum.

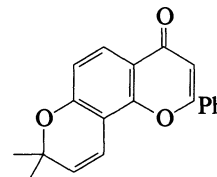
Okajima, H. *et al*, *Chem. Pharm. Bull.*, 1984, **32**, 3281 (*isol*)

Puchta, V. *et al*, *Justus Liebigs Ann. Chem.*, 1988, 25 (*occur*)

Hannemann, K. *et al*, *Lipids*, 1989, **24**, 296 (*occur*)

8,8-Dimethyl-2-phenyl-4*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-4-one, 9CI **D-10285**

6",6"-Dimethylpyrano[2",3":7,8]flavone [64125-32-2]



C₂₀H₁₆O₃ M 304.345

Constit. of the roots of *Dahlstedtia pentaphylla*. Needles (C₆H₆/pet. ether). Mp 131°.

Jain, A.C. *et al*, *Tetrahedron*, 1979, **35**, 413 (*synth*)
 Islam, A. *et al*, *Indian J. Chem., Sect. B*, 1981, **20**, 21 (*synth*)
 Garcez, F.R. *et al*, *Phytochemistry*, 1988, **27**, 1079 (*isol*)

Dimethyl sulfoxide, BAN, USAN, INN D-10286

Sulfinylbismethane, 9CI. Methyl sulfoxide. DMSO. Dermavet. Iduridine. NSC 763. Numerous proprietary names

[67-68-5]

MeSOMe

C₂H₆OS M 78.135

Constit. of *Phaseolus vulgaris*, *Medicago sativa*. Manuf. by oxidation of Dimethyl sulfide, D-03295. Widely used solvent and reagent in org. synth. Dissolves some inorganic salts, facilitates many reactions. Oxidising agent. Pharmaceutical aid for vet. applications. Topical antiinflammatory agent. Liq. Misc. H₂O, org. solvs. d₄²⁰ 1.100. Mp 18.5°. Bp 189°, Bp_{0.37} 20°. n_D²⁵ 1.4790, n_D²⁵ 1.4775. Dielectric constant ε = 46.45. Viscosity 1.991 cP.

► Can decompose exothermically at 150°. Can cause redness, itching and scaling of skin and damage to eyes. Low oral toxicity, but readily absorbed by skin with adverse systemic effects reported. Can act as a carrier for skin absorption of other chemicals. Fl.p. 95° (oc), autoignition temp. 215/270°. PV6210000.

U.S. Pat., 2 581 050, (1952); *CA*, **46**, 8669 (*synth*)
 Martin, D. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1967, **6**, 318 (*rev*)
 Jacob, S.W. *et al*, *Arzneim.-Forsch.*, 1967, **17**, 1553 (*pharmacol, tox*)
 Allan, G.G. *et al*, *Chem. Ind. (London)*, 1967, 1706 (*haz*)
Dimethyl Sulfoxide, (eds. Jacob, S.W. *et al*) M. Dekker, New York, 1971 (*book, tox, pharmacol*)
 Jacob, S.W. *et al*, *Ann. N.Y. Acad. Sci.*, Eds., 1975, **243** (*book*)
 Large, R. *et al*, *Org. Mass Spectrom.*, 1976, **11**, 582 (*ms*)
 Frolov, Y.L. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1978, 1042; *Bull. Acad. Sci. USSR, Div. Chem. Sci. (Engl. Transl.)*, 901 (*uw*)
Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1980, **8**, 198.
 Pearson, T.W. *et al*, *J. Agric. Food Chem.*, 1981, **29**, 1089 (*occur*)
 Mancuso, J. *et al*, *Synthesis*, 1981, 165 (*rev, bibl*)
 Kharasch, N. *et al*, *Ann. N.Y. Acad. Sci.*, 1983, **411**, 391 (*rev, struct, props*)
 Swanson, B.N. *et al*, *Rev. Clin. Basic Pharmacol.*, 1985, **5**, 1 (*rev, pharmacol*)
 Cataliotti, R.S. *et al*, *Spectrochim. Acta, Part A*, 1986, **42**, 855 (*ir, raman*)
 Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th Ed., Akademie-Verlag, Berlin, 1987, 64.
 Martin, G.F. *et al*, *Synth. Commun.*, 1987, **17**, 1667 (*purifn*)
 Itoh, S. *et al*, *Z. Naturforsch., A*, 1987, **42**, 858 (*struct*)
 Casida, J.E. *et al*, *J. Agric. Food Chem.*, 1992, **40**, 1425 (*cmr, pmr*)
 Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, DUD800.
 Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworth, London and Boston, 1990, 0867.
 Luxon, S.G., *Hazards in the Chemical Laboratory*, 5th edn., Royal Society of Chemistry, Cambridge, 1992, 524.
Patty's Ind. Hyg. Toxicol. (4th edn.), Wiley, 1993, **2**, 2087.

2,4-Dimethylthiophene D-10287

[638-00-6]

C₆H₈S M 112.195

Constit. of *Allium* spp. and *Azadirachta indica*. Also found in various cooked foods. Odorant used in food flavouring. Insol. H₂O; sol. Et₂O, EtOH, C₆H₆. Bp 140.7°.

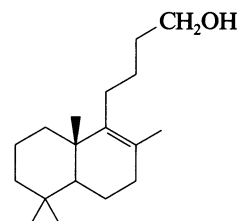
► Mod. toxic.

Zelinsky, N., *Ber.*, 1887, **20**, 2018.

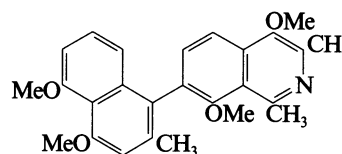
Nishimura, H. *et al*, *J. Org. Chem.*, 1975, **40**, 1567 (*synth, ir, ms, pmr*)
 Mubarak, A.M. *et al*, *Phytochemistry*, 1990, **29**, 3351 (*isol*)
 Takeshita, M. *et al*, *J. Org. Chem.*, 1991, **56**, 2837 (*synth*)
 Sax, N.I., *Dangerous Properties of Industrial Materials*, 5th Ed., Van Nostrand-Reinhold, 1979, 1030.

15,16-Dinor-8-labden-14-ol D-10288*Luffarin Y*

[145398-75-0]

C₁₈H₃₂O M 264.450

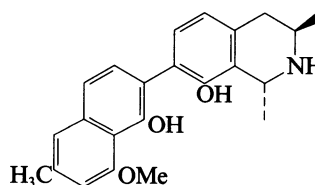
Constit. of *Luffariella geometrica*. Oil. [α]_D²⁰ +72.3° (c, 1.6 in CHCl₃).

Butler, M.-S. *et al*, *Aust. J. Chem.*, 1992, **45**, 1705 (*isol, pmr, cmr*)**Dioncophyllacine A D-10289**C₂₆H₂₇NO₄ M 417.504(±)-*form* [146471-70-7]

Alkaloid from leaves of *Triphyophyllum peltatum* (Dioncophyllaceae). Needles (MeOH). Mp 177-179°.

Bringmann, G. *et al*, *Phytochemistry*, 1992, **31**, 4015 (*isol, ir, pmr, ms, cryst struct*)**Dioncophylline B D-10290**

[140367-82-4]

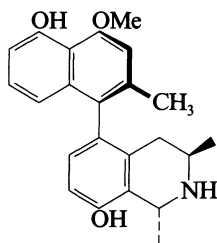
C₂₃H₂₅NO₃ M 363.455

Alkaloid from the root bark of *Triphyophyllum peltatum* (Dioncophyllaceae). Needles + ½ MeOH. [α]_D²⁰ -37.6° (c, 0.37 in CHCl₃).

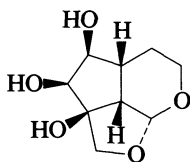
Bringmann, G. *et al*, *Phytochemistry*, 1991, **30**, 3845 (*isol, ir, pmr, cmr, struct*)

Dioncophylline C

[146471-75-2]

C₂₃H₂₅NO₃ M 363.455Alkaloid from root bark of *Triphyophyllum peltatum* (Dioncophyllaceae). Mp 246° dec. [α]_D²⁰ +19.2° (c, 0.52 in CHCl₃).Bringmann, G. *et al*, *Phytochemistry*, 1992, **31**, 4019 (*isol, ir, pmr, cd, ms, struct*)**2,10-Dioxatricyclo[6.2.1.0^{5,11}]undecane-6,7,8-triol**

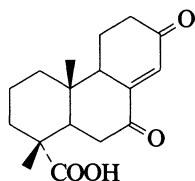
[103744-68-9]

C₉H₁₄O₅ M 202.207Constit. of *Picrorhiza kurroa*. Cryst. (EtOH) (as tri-Ac). Mp 167-168° (tri-Ac). [α]_D +33.2° (c, 1 in Me₂CO) (tri-Ac).Weinges, K. *et al*, *Justus Liebigs Ann. Chem.*, 1989, 1113 (*isol, cryst struct*)**4,5-Dioxo-2-hexadecenoic acid****D-10293**C₁₆H₂₆O₄ M 282.379**(E)-form** [135863-69-3] **Podoscyphic acid**Isol. from the basidiomycete *Podoscypha* sp. Enzyme inhibitor. Pale yellow solid. Mp 105°.*Et ester*: [135863-70-6].C₁₈H₃₀O₄ M 310.433

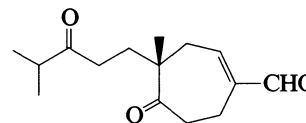
Pale yellow oil.

Bis(2,4-dinitrophenylhydrazone): Orange-red cryst. Mp 210°.Erkel, G. *et al*, *Z. Naturforsch., C*, 1991, **46**, 442 (*isol, props*)**7,13-Dioxo-8(14)-podocarpin-18-oic acid****D-10294**

[151480-68-1]

C₁₇H₂₂O₄ M 290.358Constit. of *Pinus massoniana*.Cheung, H.T.A. *et al*, *Tetrahedron*, 1993, **49**, 7903 (*isol, pmr, cmr*)**4,5-Dioxo-4,5-seco-8-daucen-14-al****D-10295****Secocarotanal**

[147029-01-4]

C₁₅H₂₂O₃ M 250.337Constit. of *Rosa rugosa*. Syrup.Hashidoko, Y. *et al*, *Phytochemistry*, 1993, **32**, 387 (*isol, pmr, cmr*)**1,5-Diphenyl-1,4-pentadiene****D-10296**

Updated Entry replacing D-03412

1,1'-(1,4-Pentadiene-1,5-diyl)bisbenzene, 9CI

[52267-15-9]

C₁₇H₁₆ M 220.313**(E,E)-form** [26057-48-7]Oil. Bp_{0.5} 170°.**(E,Z)-form** [26057-49-8]Isol. from *Caulerpa racemosa*. Oil.**(Z,Z)-form** [26057-47-6]

Obt. chromatographically, no phys. props. reported.

Brenner, S. *et al*, *Isr. J. Chem.*, 1969, **7**, 735 (*synth, pmr*)Boyle, P.H. *et al*, *J. Org. Chem.*, 1973, **38**, 826 (*synth*)Shoppee, C.W. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1975, 765 (*synth*)Komatsu, K. *et al*, *Bull. Chem. Soc. Jpn.*, 1982, **55**, 2470 (*synth*)Tolbert, L.M. *et al*, *J. Am. Chem. Soc.*, 1990, **112**, 9519 (*synth, pmr, cmr*)Anjaneyulu, A.S.R. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 497 (*isol, pmr, cmr*)**Diphosphine, 9CI, 8CI****D-10297***Biphosphine. Phosphinophosphine. Diphosphane*

[13445-50-6]

H₄P₂ M 65.979Monomeric. Gauche conformation preferred. Interatomic distances: P—H 145.1, P—P 221.8 pm; angles: PPH 95.2°, HPH 91.3°. By-product in synth. of PH₃. Obt. by incubation of human faeces with a mixed bacterial culture under anaerobic conditions. Liq. which polym. when heated. Dec. at -30°. Light sensitive. Poly cryst. solid at low temps. Mp -99°. Bp 66.7° (51.7°). When heated, yields higher phosphines.

▷ Highly toxic. Spont. flammable.

Evers, E.C. *et al*, *J. Am. Chem. Soc.*, 1956, **78**, 5726 (*synth*)*Gmelin Handbook Inorg. Chem., Syst. No. 16*, 1965, C, 51 (*rev, bibl*)Frankiss, S.G., *Inorg. Chem.*, 1968, **7**, 1931 (*ir, raman, props*)*Fieser and Fieser's Reagents for Organic Synthesis*, Wiley, 1969, **2**, 329 (*use*)*Mellor Compr. Treat. Inorg. Theor. Chem.*, Longman, London, 1971, **8/III**, 272, 1141 (*rev*)Beagley, B. *et al*, *J. Mol. Struct.*, 1972, **11**, 371 (*ed*)Durig, J.R. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 2688 (*synth, microwave, struct*)Albrand, J.P. *et al*, *Inorg. Chem.*, 1975, **14**, 570 (*synth*)Odom, J.D. *et al*, *Inorg. Chem.*, 1975, **14**, 2849 (*ir, raman*)Brauer, G., *Handbuch Präp. Anorg. Chem.*, 3rd Ed., Ferdinand Enke Verlag, 1975-1981, **1**, 514 (*synth*)Elbel, S. *et al*, *Inorg. Chem.*, 1976, **15**, 1235 (*synth, pe, struct*)Baudler, M. *et al*, *Z. Anorg. Allg. Chem.*, 1977, **437**, 78 (*ir, raman*)

- Galasso, V., *J. Magn. Reson.*, 1979, **36**, 181 (*nmr*)
 Gassmann, G. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1993, **32**, 761 (*synth*)
 Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, DWP229.

1,3-Dithiane, 9CI**D-10298**

m-Dithiane, 8CI
 [505-23-7]



$C_4H_8S_2$ M 120.239

Constit. of garlic and other *Allium* spp. Used in synth. as a formyl anion equivalent. Cryst. (MeOH). Mp 54°. Sublimes.

l-Oxide: [16452-25-8].

$C_4H_8OS_2$ M 136.239
 Mp 87-88°.

l,l-Dioxide: [55337-75-2].

$C_4H_8O_2S_2$ M 152.238
 Cryst. (CHCl₃/Et₂O). Mp 139-140°.

cis-*l,l*,3-Dioxide: [55337-76-3].

$C_4H_8O_2S_2$ M 152.238
 Cryst. (MeOH). Mp 239-240° (215-216°).

trans-*l,l*,3-Dioxide: [132141-02-7].

$C_4H_8O_2S_2$ M 152.238
 Cryst. (EtOH). Mp 182-183°. Known also in opt. active form (*R,R*-enantiomer, $[\alpha]_D +243^\circ$, 99.8% e.e.).

l,l,l,3-Tetraoxide: [26413-18-3].

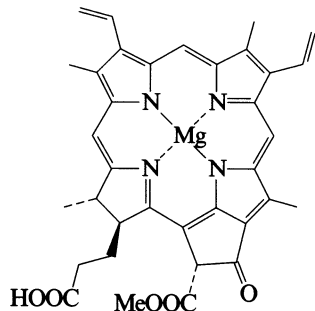
$C_4H_8O_4S_2$ M 184.237
 Mp 330°.

[16487-10-8]

- Carlson, R.M. *et al*, *J. Org. Chem.*, 1968, **33**, 2596 (*monoxides*)
Org. Synth., 1970, **50**, 72 (*synth*)
 Khan, S.A. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 1468 (*dioxides*)
 Adams, W.J. *et al*, *J. Mol. Struct.*, 1977, **37**, 261 (*cryst struct*)
Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1980, **8**, 217, 246; 1981, **9**, 48, 235; 1982, **10**, 231; 1984, **11**, 285; 1986, **12**, 573; 1992, **16**, 161 (*use*)
 Labiad, B. *et al*, *Synth. Commun.*, 1989, **19**, 31 (*synth*)
 Bien, S. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1990, 1987 (*dioxides*)
 Aggarwal, V.K. *et al*, *J. Org. Chem.*, 1992, **57**, 6390 (*R,R*-dioxide)

Divinylchlorophyllide a**D-10299**

Updated Entry replacing D-03501
 [74735-51-6]



$C_{35}H_{32}MgN_4O_5$ M 612.967

Photoreduction prod. of protochlorophyllide. Intermed. in Chlorophyll a, C-10084 biosynth.

Wu, S.M. *et al*, *Tetrahedron*, 1984, **40**, 659 (*pmr, ms*)

13,16,19-Docosatrienoic acid**D-10300**

[59708-86-0]



$C_{22}H_{38}O_2$ M 334.541

All-(*Z*)-form [28845-86-5]

Isol. from rape seed oil. Widespread among marine organisms. Found in lipids of egg yolk, embryo of dogfish and in lipids and phospholipids of pancreatic islets.

[108698-01-7]

- Haefner, E., *Lipids*, 1970, **5**, 430 (*isol, struct*)
 Moreno, V.J. *et al*, *Lipids*, 1979, **14**, 15, 313 (*biosynth*)
 Diaz, G.B. *et al*, *Lipids*, 1988, **23**, 1125; 1990, **25**, 724 (*occur*)
 Berger, A. *et al*, *Lipids*, 1990, **25**, 473 (*biosynth*)

2,8-Dodecadienoic acid**D-10301**

Updated Entry replacing D-03542



$C_{12}H_{20}O_2$ M 196.289

(*2E,8E*)-form

Large plates. Mp 34-35°. Bp_{0.8} 140°.

S-Benzylthiuronium salt: Plates (EtOAc). Mp 159°.
2-Methylpropylamide: Needles (pet. ether). Mp 53°.

(*2Z,8E*)-form

Bp₁ 127-129°.

S-Benzylthiuronium salt: Plates (EtOAc). Mp 148°.
2-Methylpropylamide: Bp_{0.6} 154°, Bp_{0.03} 142°.

(*2ξ,8ξ*)-form

2-Methylpropylamide: *N*-Isobutyl-2,8-dodecadienamido.

Herculin

$C_{16}H_{29}NO$ M 251.411

Isol. from *Zanthoxylum clava-herculis*. Insecticide.
 Pungent needles (hexane). Mp 59-60°. Struct. doubtful.

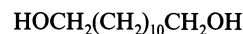
- Jacobson, M., *J. Am. Chem. Soc.*, 1948, **70**, 4234 (*isol, struct*)
 Raphael, R.A. *et al*, *J. Chem. Soc.*, 1950, 115; 1951, 2693 (*synth*)
 Crombie, L., *J. Chem. Soc.*, 1952, 2997 (*synth, struct*)

1,12-Dodecanediol**D-10302**

Updated Entry replacing D-03551

Dodecamethylenediol

[5675-51-4]



$C_{12}H_{26}O_2$ M 202.336

Constit. of the leaf wax of *Chamaecyparis obtusa* and of *Pinus thunbergii*. Cryst. (EtOH aq. or C₆H₆). Mp 80-81°. Bp₁₂ 189°.

Di-Me ether:

$C_{14}H_{30}O_2$ M 230.390
 Mp 11.5°. Bp₁₅ 155-156°.

Di-Ac:

$C_{16}H_{30}O_4$ M 286.411
 Mp 36.5-37.5°.

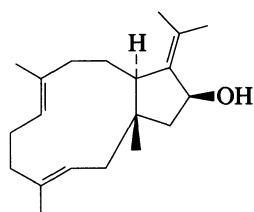
Di-Ph ether: [61575-03-9]. *1,1'*-[1,12-Dodecanediylbis(oxy)]bisbenzene, 9CI. *1,2*-Diphenoxydodecane

$C_{24}H_{34}O_2$ M 354.531

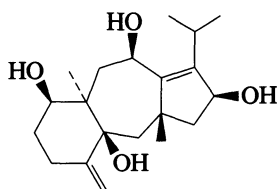
Isol. from the leaves of *Arachis hypogaea* infected with *Puccinia arachidis*. Phytoalexin.

- Chuit, P., *Helv. Chim. Acta*, 1926, **9**, 264 (*synth*)
 Guyer, A. *et al*, *Helv. Chim. Acta*, 1955, **38**, 976.
 Colonge, J. *et al*, *Bull. Soc. Chim. Fr.*, 1959, 1248 (*synth*)
 White, R.W. *et al*, *Tetrahedron Lett.*, 1971, 3587 (*synth*)
 Drewes, S.E. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1974, 2578.

Rosen, M.J. *et al*, *J. Am. Oil Chem. Soc.*, 1976, **53**, 742 (*di-Ph ether*)
 Rao, P.V.S. *et al*, *Oleagineux*, 1991, **46**, 501; *CA*, **116**, 252152 (*di-Ph ether*)

3,7,12(18)-Dolabellatrien-13-ol**D-10303**C₂₀H₃₂O M 288.472**(3E,7E,13β)-form**
IsopalominolConstit. of *Eunicea laciniata*. Cryst. Mp 117.3-119°.Rodríguez, A.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1843 (*isol*, *pmr*, *cmr*)**1(15),8-Dolastadiene-4,7,10,14-tetrol****D-10304**

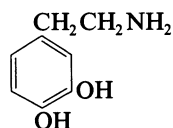
Updated Entry replacing D-03617

C₂₀H₃₂O₄ M 336.470**(4β,7β,10β,14β)-form**7,10-Di-Ac: [75744-69-3]. **Amijidictyol**C₂₄H₃₆O₆ M 420.545Constit. of *Dictyota linearis*. Cryst. Mp 187-189°. [α]_D²⁰ -40° (CHCl₃).7-Ac: [140475-71-4]. **Deacetylamijidictyol**C₂₂H₃₄O₅ M 378.508Constit. of *Dictyota divaricata*. Amorph. powder. [α]_D²⁷ -90° (c, 0.05 in MeOH).Ochi, M. *et al*, *Chem. Lett.*, 1980, 1233.Li, L.N. *et al*, *Chin. Chem. Lett.*, 1991, **2**, 621 (*isol*, *pmr*, *cmr*, *deriv*)**Dopamine, BAN, INN****D-10305**

Updated Entry replacing D-03651

4-(2-Aminoethyl)-1,2-benzenediol, **9CI**. 2-(3,4-Dihydroxyphenyl)ethylamine. 3,4-Dihydroxyphenethylamine. *Hydroxytyramine*. *Oxytyramine*. *Cardiosteril*. *Dopastat*. *Intropin*. NSC 169105. ASL 279

[51-61-6]

C₈H₁₁NO₂ M 153.180Occurs in animals, esp. in the brain and nervous system, and in several higher plants, such as broom (*Cytisus scoparius*) and banana (*Musa sapientum*), and in the alga *Monostroma fuscum* (Leguminosae, Musaceae). Adrenergic, sympathomimetic, vasopressor. Autoxidises very readily as free base.▷ LD₅₀ (rat, ipr) 163 mg/kg. Exp. reprod. and teratogenic effects. UX1088000.**B,HCl**: [62-31-7]. *Dopamine hydrochloride*, **USAN**, **JAN**
Mp 240-241° dec. (> 220° dec.).▷ Adverse effects (incl. ocular effect) reported when used therapeutically. LD₅₀ (rat, ipr) 597 mg/kg. Exp. reprod. and teratogenic effects. UX1092000.**O³-β-D-Glucoside**: [50908-96-8]. **Dopamine 3-O-glucoside**
C₁₄H₂₁NO₇ M 315.322Alkaloid from seeds of *Entada pursaetha* (Leguminosae). Semicryst. brown solid. [α]_D²⁰ -62.0° (c, 2 in H₂O).**O³-β-D-Glucoside, per-Ac**: [α]_D²⁰ -16° (c, 3.6 in EtOH), [α]_D²⁰ +0.7° (c, 5 in CHCl₃).**N-Me**: see *Epinine*, E-00341**N-Tri-Me**: see *Coryneine*, C-01901**O³-Me**: see 4-Hydroxy-3-methoxyphenethylamine, H-02273**O⁴-Me**: [3213-30-7]. **3-Hydroxy-4-methoxyphenethylamine**.5-(2-Aminoethyl)-2-methoxyphenol, **9CI**, **8CI**Alkaloid from *Pachycereus pecten-aboriginum* (Cactaceae). Identified chromatographically.**Di-Me ether**: see 3,4-Dimethoxyphenethylamine, D-02990**O⁴-Me, N-(4-Hydroxy-3-methoxycinnamoyl) (E)-**: **N-trans-Feruloyl-4-O-methyldopamine**C₁₉H₂₁NO₅ M 343.379Alkaloid from roots of *Chenopodium album* (Chenopodiaceae). Oil.*Org. Synth.*, *Coll. Vol.*, 3, 1955, 720 (*synth*)Waalkes, T.P. *et al*, *Science (Washington, D.C.)*, 1958, **127**, 648 (*isol*)Keppe, T. *et al*, *J. Med. Chem.*, 1965, **8**, 368 (*uv*)Lundström, J., *Acta Chem. Scand.*, 1971, **25**, 3489 (*biosynth*)Agurell, S. *et al*, *J. Nat. Prod. (Lloydia)*, 1971, **34**, 183 (3-Hydroxy-4-methoxyphenethylamine)Milne, G.W. *et al*, *Anal. Chem.*, 1973, **45**, 1952 (*ms*)Larsen, P.O. *et al*, *Phytochemistry*, 1973, **12**, 2243 (*glucoside*)Lambert, F. *et al*, *Org. Magn. Reson.*, 1975, **72**, 66 (*pmr*)Smith, T.A., *Phytochemistry*, 1977, **16**, 9 (*occur, bibl*)Scratchley, G.A. *et al*, *J. Chromatogr.*, 1979, **169**, 313 (*hplc*)Carter, J.E. *et al*, *Anal. Profiles Drug Subst.*, 1982, **11**, 257 (*rev, uv, ir, pmr, cmr, ms, anal*)Carey, R.M. *et al*, *Recent Prog. Horm. Res.*, 1986, **42**, 251 (*rev*)Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th Ed., Akademie-Verlag, Berlin, 1987, 946 (*synonyms*)*Martindale, The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, London, 1993, 1243.Horio, T. *et al*, *Phytochemistry*, 1993, **33**, 807 (*N-trans-Feruloyl-4-O-Methyldopamine*)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, DY400, DY600.**Dotriacontane, 9CI****D-10306***Dicetyl*. *Lacceran*. *Bicetyl*

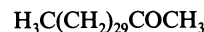
[544-85-4]

C₃₂H₆₆ M 450.873Constit. of higher plants, eg. *Bacopa monnieri*, *Mentha aquatica*, *Agave sisalana*. Plates (Et₂O). Mp 74-75°. Bp_{1.5} 245°.

▷ JT2360000.

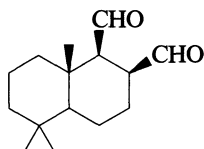
Levene, P.A. *et al*, *J. Biol. Chem.*, 1915, **20**, 530 (*synth*)Brown, I. *et al*, *J. Chem. Soc.*, 1960, 2783 (*isol*)Razafindrazaka, J. *et al*, *Bull. Soc. Chim. Fr.*, 1963, 1633 (*isol*)**2-Dotriacontanone, 9CI****D-10307**

[77327-15-2]

C₃₂H₆₄O M 464.857

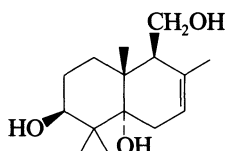
Isol. from the snakes *Boiga irregularis* and *Thamnophis sirtalis parietalis*. Sex attractant pheromone.

Mason, R.T. *et al*, *J. Chem. Ecol.*, 1990, **16**, 2353 (*isol, ms*)
Murata, Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 233 (*isol*)

11,12-Drimanediol**D-10308**

$C_{15}H_{24}O_2$ M 236.353
Constit. of a *Dysidea* sp. Oil. $[\alpha]_D + 8.5^\circ$ (c, 0.55 in $CHCl_3$).

Butler, M.S. *et al*, *Aust. J. Chem.*, 1993, **46**, 1255 (*isol, pmr, cmr*)

7-Drime-3,5,11-triol**D-10309**

$C_{15}H_{26}O_3$ M 254.369
(**3 β ,5 α**)-form [82526-29-2] **Uvidin F**
Constit. of *Lactarius widus*.

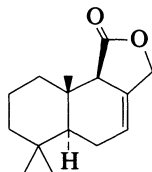
De Bernardi, M. *et al*, *CA*, 1982, **97**, 69267n.

7-Drimen-11,12-olide**D-10310**

Updated Entry replacing D-03695

Drimenin

[2326-89-8]



$C_{15}H_{22}O_2$ M 234.338
Constit. of *Drimys winteri*. Cryst. (MeOH). Mp 133°. $[\alpha]_D - 42^\circ$ (c, 0.76 in C_6H_6).

11 α -Alcohol: [72581-69-2]. **11,12-Epoxy-7-drimen-11 α -ol. Isodrimeninol**

$C_{15}H_{24}O_2$ M 236.353
Constit. of *Polygonum hydropiper*. Oil. $[\alpha]_D - 37^\circ$ (c, 1.5 in $CHCl_3$).

11 β -Alcohol: [67594-76-7]. **Drimeninol**

$C_{15}H_{24}O_2$ M 236.353
Constit. of *Porella* spp. Oil. $[\alpha]_D - 26^\circ$.

Appel, H.H. *et al*, *J. Chem. Soc.*, 1960, 4685 (*isol*)

Kitahara, Y. *et al*, *J. Chem. Soc., Chem. Commun.*, 1969, 342 (*synth*)

Yanagawa, H. *et al*, *Synthesis*, 1970, 257 (*synth*)

Asakawa, Y. *et al*, *Phytochemistry*, 1978, **17**, 457 (*Drimeninol*)

Asakawa, Y. *et al*, *Experientia*, 1979, **35**, 1420 (*Isodrimeninol*)

Jalali-Naini, M. *et al*, *Tetrahedron*, 1983, **39**, 749 (*synth*)

Liapis, M. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1985, 815 (*synth*)

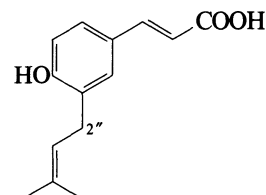
Ragoussis, V. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1987, 987 (*synth*)

Harrigan, G.G. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 921 (*cmr*)

Drupanin**D-10311**

Updated Entry replacing D-03709

3-[4-Hydroxy-3-(3-methyl-2-butenyl)phenyl]-2-propenoic acid, 9CI. 4-Hydroxy-3-prenylcinnamic acid
[53755-58-1]



$C_{14}H_{16}O_3$ M 232.279
Constit. of the fruits of *Psoralea drupacea*. Acicular cryst.
Mp 147-148°.

Me ester: [72704-01-9]. **Plicatin B**

$C_{15}H_{18}O_3$ M 246.305
Isol. from leaves and stem of *P. juncea* and from *P. plicata*. Cryst. (Et_2O /hexane). Mp 86-87° (72°).

2''R-Hydroxy, Me ester: [131889-82-2]. **Plicatin A**

$C_{15}H_{18}O_4$ M 262.305
Constit. of *Psoralea plicata*. Cryst. (Me_2CO). Mp 182°.
 $[\alpha]_D - 59.7^\circ$ (c, 0.067 in $CHCl_3$).

2''R-Hydroxy, Me ester, Me ether: Cryst. (EtOH). Mp 167°. $[\alpha]_D - 57.6^\circ$ (c, 0.07 in $CHCl_3$).

Golovina, L.A. *et al*, *Khim. Prir. Soedin.*, 1973, **9**, 700; *Chem. Nat. Compd. (Engl. Transl.)*, 672 (*isol, uv, pmr, struct*)

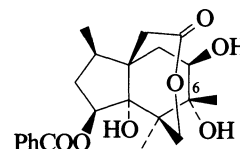
Rasool, N. *et al*, *Phytochemistry*, 1990, **29**, 3979 (*isol, pmr, cmr, ms*)

Mitscher, L.A. *et al*, *Phytochemistry*, 1991, **30**, 3569 (*isol, pmr, cmr, uv, ir*)

Dunnianin**D-10312**

Updated Entry replacing D-03734

[116085-00-8]



$C_{22}H_{28}O_7$ M 404.459
Constit. of the bark of *Illicium dunnianum*. Needles
($CHCl_3$). Mp 245-246°. $[\alpha]_D^{24} + 61^\circ$ (c, 0.1 in dioxan).

6-Deoxy: [116085-01-9]. **6-Deoxydunnianin**

$C_{22}H_{28}O_6$ M 388.460
Constit. of the bark of *I. dunnianum*. Needles
($CHCl_3$ /hexane). Mp 222-223°.

3-Deacyl, 3-Ac, 7-benzoyl: Isodunnianin

$C_{24}H_{30}O_8$ M 446.496
Constit. of *I. tashiroi*. Cryst. (Et_2O/CH_2Cl_2). Mp 153-154°. $[\alpha]_D + 1.32^\circ$ (c, 0.3 in EtOH).

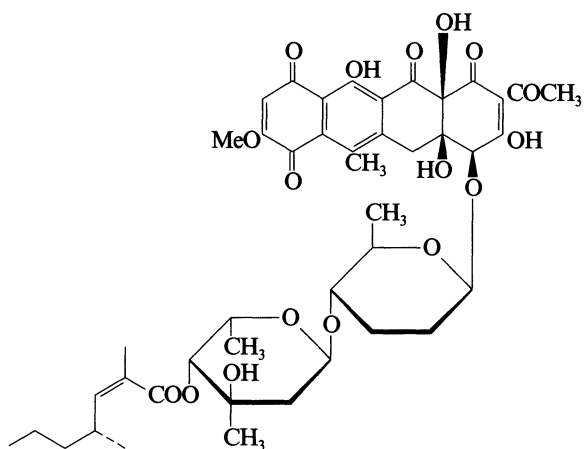
Kouno, I. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1988, 1537 (*isol, pmr, cmr*)

Fukuyama, Y. *et al*, *Planta Med.*, 1993, **59**, 181 (*Isodunnianin*)

Dutomycin

D-10313

[146663-67-4]

 $C_{44}H_{54}O_{17}$ M 854.900Anthracycline antibiotic. Prod. by a *Streptomyces* sp.

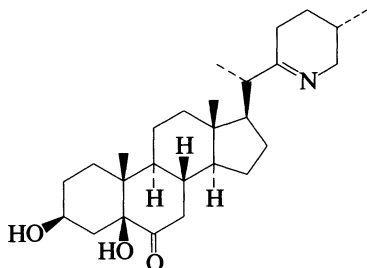
Antitumour agent. Orange powdery cryst. Mp 237-238°.

 $[\alpha]_D^{24} -85^\circ$ (c, 0.1 in DMSO).Xuan, L.-J. *et al*, *J. Antibiot.*, 1992, **45**, 1974 (*isol, pmr, cmr, struct*)

E

Ebeietinone

[143114-79-8]



$C_{27}H_{43}NO_3$ M 429.642

Alkaloid from bulbs of *Fritillaria ebeiensis* var. *purpurea* (Liliaceae). Needles (Me_2CO). Mp 199-203°. $[\alpha]_D^{25}$ -53.5° (c, 0.24 in $CHCl_3$).

Li, P. *et al*, *Phytochemistry*, 1992, **31**, 2190 (isol, ir, pmr, cmr, ms, struct)

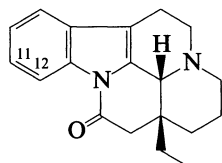
E-10001

- Mokry, J. *et al*, *Experientia*, 1961, **17**, 354 (uv, ir)
 Plat, M. *et al*, *Bull. Soc. Chim. Fr.*, 1962, 1082 (ms)
 Bartlett, M.F. *et al*, *J. Org. Chem.*, 1963, **28**, 2197 (cd, uv, ir)
 Trojáněk, J. *et al*, *Collect. Czech. Chem. Commun.*, 1964, **29**, 433 (uv, ir, synth)
 Trojáněk, J. *et al*, *Chem. Ind. (London)*, 1965, 1261.
 Döpke, W. *et al*, *Pharmazie*, 1968, **23**, 99 (Dimethoxyeburnamonine)
 Döpke, W. *et al*, *Tetrahedron Lett.*, 1968, 1805 (11-Methoxyeburnamonine)
 Chiesi, V.A. *et al*, *Cryst. Struct. Commun.*, 1973, **2**, 599 (cryst struct)
 Cartier, D. *et al*, *Bull. Soc. Chim. Fr.*, 1976, 1961 (synth)
 Hermann, J.L. *et al*, *Tetrahedron Lett.*, 1976, 801 (synth)
 De Angelis, L., *Drugs of Today (Barcelona)*, 1978, **14**, 160 (rev)
 Wenkert, E. *et al*, *Tetrahedron*, 1981, **37**, 4017 (synth)
 Martindale, *The Extra Pharmacopoeia*, 28th/29th Ed., Pharmaceutical Press, London, 1982/1989, 14014.
 Imanishi, T. *et al*, *Chem. Pharm. Bull.*, 1983, **31**, 1191 (synth)
 Szabó, L. *et al*, *Tetrahedron*, 1983, **29**, 3737 (synth, ir)
 Takano, S. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1985, 305 (synth, ir, pmr, ms)
 Kalas, G. *et al*, *J. Org. Chem.*, 1985, **50**, 3760 (synth, ir, pmr, cmr, ms)
 Magnus, P. *et al*, *Tetrahedron*, 1986, **42**, 3215 (synth)
 Node, M. *et al*, *J. Am. Chem. Soc.*, 1987, **109**, 7901 (synth)
 Lewin, G. *et al*, *Tetrahedron*, 1987, **43**, 493 (synth)
 Wenkert, G. *et al*, *J. Org. Chem.*, 1988, **53**, 1953 (synth)
 Wasserman, H.H. *et al*, *Tetrahedron Lett.*, 1989, **30**, 873 (synth)
 Kam, T.-S. *et al*, *Phytochemistry*, 1992, **31**, 2936 (oxide)

Eburnamonine

Updated Entry replacing E-00011

Eburnamenin-14(15H)-one, 9Cl. Huntericine



(+)-form

$C_{19}H_{22}N_2O$ M 294.396

(+)-form [474-00-0]

Alkaloid from *Hunteria eburnea*, *Amsonia tabernaemontana* and several other genera in the family Apocynaceae. Mp 183°. $[\alpha]_D^{26}$ $+89^\circ$ ($CHCl_3$).

N^4 -Oxide: *Eburnamonine N⁴-oxide*

$C_{19}H_{22}N_2O_2$ M 310.395

Alkaloid from leaves of *Kopsia larutensis* (Apocynaceae). Mp 119-121°. $[\alpha]_D^{25}$ $+56^\circ$ (c, 0.35 in $CHCl_3$).

11,12-Dimethoxy: [19775-49-6]. *Dimethoxyeburnamonine*

$C_{21}H_{26}N_2O_3$ M 354.448

Alkaloid from *Vinca minor* (Apocynaceae). Mp 220°.

(-)-form [4880-88-0]

Vincamone. Vinburnine, INN. Cervoxan. Eburnal. Eburnoxine. Ebornoxin. Eubron. Luvenil. Monil. Scleramin. Tensiplex. CH 846

Alkaloid from *V. minor* (Apocynaceae). Drug for stimulation of muscle activity. Cerebrotonic. Mp 173-174°. $[\alpha]_D^{25}$ -102° ($CHCl_3$).

11-Methoxy: [4800-93-5]. *11-Methoxyeburnamonine*

$C_{20}H_{24}N_2O_2$ M 324.422

Alkaloid from *V. minor* (Apocynaceae). Needles (Me_2CO). Mp 169-170°. $[\alpha]_D^{22}$ -107° (c, 0.15 in $CHCl_3$).

(±)-form [2580-88-3]

Vincanorine

Alkaloid from *V. minor* (Apocynaceae). Cryst. (MeOH). Mp 203-204°.

$B, HClO_4$: Cryst. (dioxan). Mp 243-245°.

E-10002

Echinozolinone

E-10003

Updated Entry replacing E-00031

$C_{10}H_{10}N_2O_2$ M 190.201

Struct. unknown. Originally considered as 3-(2-Hydroxyethyl)-4(3H)-quinazolinone but prop. of authentic synthetic material differ from those reported for natural Echinozolinone. The isomeric struct., 1-(2-Hydroxyethyl)-4(1H)-quinazolinone has also been excluded by synthesis. Alkaloid from aerial parts of *Echinops echinatus* (Compositae). Pale-yellow needles ($CHCl_3/MeOH$). Mp 150°.

7-Hydroxy: *7-Hydroxyechinozolinone*

$C_{10}H_{10}N_2O_3$ M 206.201

Minor alkaloid from flowers of *E. echinatus* (Compositae). Amorph. solid. Doubtful structural assignment (see statement under Echinozolinone above).

Chaudhuri, P.K., *Phytochemistry*, 1987, **26**, 587.

Reisch, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 404.

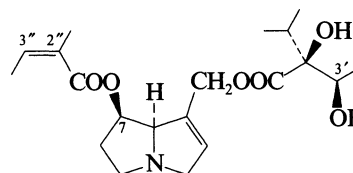
Chaudhuri, P.K., *J. Nat. Prod. (Lloydia)*, 1992, **55**, 249 (deriv)

Echiumine

E-10004

Updated Entry replacing E-00037

[633-16-9]



$C_{20}H_{31}NO_6$ M 381.468

Diester of Retronecine with angelic and (+)-trachelanthic acids. Alkaloid from *Echium plantagineum*, *Amsinckia intermedia*, *Cryptantha leiocarpa* and *C. clevelandii* (Boraginaceae). Cryst. (pet. ether) (also descr. as a brown gum). Mp 99-100°. $[\alpha]_D^{20} + 14.4^\circ$ (c, 2.02 in EtOH).

Picrate: Cryst. (EtOH aq.). Mp 131-132°.

3'-*Epimer*: [74410-74-5]. **Symlandine**

$C_{20}H_{31}NO_6$ M 381.468

Alkaloid from leaves of *Symphytum x uplandicum* (hybrid of *S. officinale* and *S. asperum*) (Boraginaceae). Diester of Retronecine with angelic and (-)-Viridifloric acids.

7-*Epimer*: 7-**Angelylheliotridine trachelanthate**

$C_{20}H_{31}NO_6$ M 381.468

Minor alkaloid from *Heliotropium supinum* (Boraginaceae). Diester of Heliosupine with angelic and trachelanthic acids. Obt. only as a mixt. with 7-Angelylheliotridine viridiflorate.

3',7-*Diepimer*: 7-**Angelylheliotridine viridiflorate**. 7-**Angelyl-9-viridiflorylheliotridine**

$C_{20}H_{31}NO_6$ M 381.468

Minor alkaloid from *H. supinum* (Boraginaceae). Diester of Heliosupine with angelic and viridifloric acids. Obt. only as a mixt. with 7-Angelylheliotridine trachelanthate.

2''R*,3''S*-*dihydroxy*: **threo-2'',3''-Dihydroxyechiumine**

$C_{20}H_{33}NO_8$ M 415.483

Alkaloid from *C. leiocarpa* and *C. clevelandii* (Boraginaceae). Brown gum.

2''R*-*Hydroxy*, 3''S*-*chloro*: **erythro-3''-Chloro-2''-hydroxyechiumine**

$C_{20}H_{32}ClNO_7$ M 433.928

Alkaloid from *C. leiocarpa* and *C. clevelandii* (Boraginaceae): Brown gum.

2'',3''-*Epoxide*: **2'',3''-Epoxyechiumine**

$C_{20}H_{31}NO_7$ M 397.467

Alkaloid from *C. leiocarpa* and *C. clevelandii* (Boraginaceae). Brown gum.

Culvenor, C.C.J. *et al*, *Aust. J. Chem.*, 1956, **9**, 512; 1959, **12**, 694; 1966, **19**, 1955; 1980, **33**, 1105 (*struct*, *pmr*, *Symlandine*)

Šimánek, V. *et al*, *Collect. Czech. Chem. Commun.*, 1969, **34**, 1832 (*wv*)

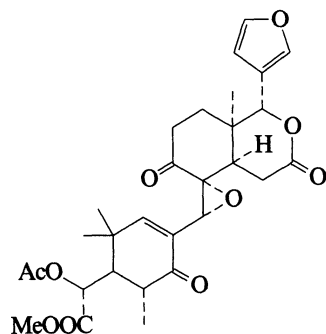
Glinski, J.A. *et al*, *Tetrahedron Lett.*, 1985, **26**, 2857 (*synth*)

Stermitz, F.R. *et al*, *Phytochemistry*, 1993, **33**, 383 (*epoxide*, 2'',3''-*Dihydroxyechiumine*, 3''-*Chloro-2''-hydroxyechiumine*)

Ecuadorin

[144597-20-6]

E-10005



$C_{29}H_{34}O_{10}$ M 542.582

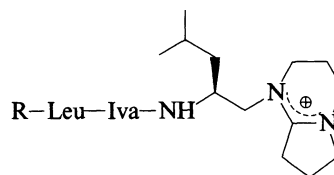
Constit. of *Guarea kunthiana*. Needles (MeOH). Mp 237-238°. $[\alpha]_D^{20} + 4.2^\circ$ (c, 0.7 in $CHCl_3$).

Mootoo, B.S. *et al*, *Can. J. Chem.*, 1992, **70**, 1260 (*isol*, *pmr*, *cmr*)

Efrapeptin A

[138145-52-5]

E-10006



R = -Gly-Aib-Ac

$C_{32}H_{58}N_7O_5$ M 620.854

Member of Efrapeptin antibiotic complex. See Efrapeptin, E-00059. Prod. by *Tolypocladium niveum*. Possesses insect toxicity.

Gupta, S. *et al*, *J. Org. Chem.*, 1992, **57**, 2306 (*isol*, *props*)

Efrapeptin B

[138145-53-6]

E-10007

As Efrapeptin A, E-10006 with

R = Ac

$C_{26}H_{48}N_5O_3$ M 478.697

Member of Efrapeptin antibiotic complex. See Efrapeptin, E-00059. Prod. by *Tolypocladium niveum*.

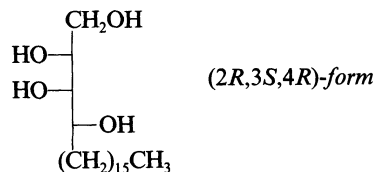
Gupta, S. *et al*, *J. Org. Chem.*, 1992, **57**, 2306 (*isol*, *props*)

1,2,3,4-Eicosanetetrol, 9CI

1,2,3,4-*Icosanetetrol*

[42415-56-5]

E-10008



$C_{20}H_{42}O_4$ M 346.549

(2R,3S,4R)-*form* [105368-57-8]

D-lyxo-*form*

$[\alpha]_D^{20} + 2.5^\circ$ (c, 0.28 in Py).

Tetra-Ac: [105368-58-9].

Needles (hexane). Mp 84-86°. $[\alpha]_D^{20} + 20.3^\circ$ (c, 1 in $CHCl_3$).

(2S,3R,4R)-*form* [105368-50-1]

D-ribo-*form*

Cryst. (MeOH). $[\alpha]_D^{20} + 6.8^\circ$ (c, 0.6 in Py).

Tetra-Ac: [105265-44-9].

Oil. $[\alpha]_D^{20} + 3.3^\circ$ (c, 1.2 in $CHCl_3$).

(2S,3R,4S)-*form* [105368-53-4]

L-lyxo-*form*

$[\alpha]_D^{20} - 2.1^\circ$ (c, 0.3 in Py).

(2S,3S,4R)-*form* [105368-60-3]

D-xylo-*form*. **Gugguletrol 20**

Isol. from the saponified resin of *Commiphora mukul*.

Cryst. (EtOH). $[\alpha]_D^{20} + 9.2^\circ$ (c, 0.28 in EtOH).

Tetra-Ac: [105368-61-4].

Cryst. (hexane). Mp 54-56°. $[\alpha]_D^{20} + 2.3^\circ$ (c, 1 in $CHCl_3$).

Kjaer, A. *et al*, *Tetrahedron*, 1986, **42**, 1439 (*synth*)

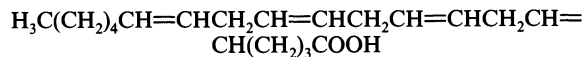
Kumar, V. *et al*, *Tetrahedron*, 1987, **43**, 5933 (*synth*, *abs config*)

5,8,11,14-Eicosatetraenoic acid**E-10009**

Updated Entry replacing E-00086

5,8,11,14-Icosatetraenoic acid

[7771-44-0]

 $\text{C}_{20}\text{H}_{32}\text{O}_2$ M 304.472

▷ JX3850000.

(all-Z)-form [506-32-1]*Arachidonic acid*Constit. of many animal phospholipids, also of some ferns and mosses. Essential fatty acid. Precursor of prostaglandin G₂ series. Mp -49.5°. Bp₁ 163°.▷ Potentially explosive. LD₅₀ (mus, ivn) 33 mg/kg. CE6675000.*Me ester*: [2566-89-4]. $\text{C}_{21}\text{H}_{34}\text{O}_2$ M 318.498Bp_{0.7} 194-196°.**(2-Hydroxyethyl)amide**: [94421-68-8].*Arachnidonylethanolamide. Anandamide* $\text{C}_{22}\text{H}_{37}\text{NO}_2$ M 347.540

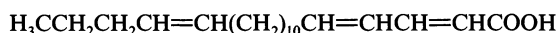
Isol. from porcine brain. Cannabinoid receptor ligand.

20, 20, 20-Trifluoro: [115178-89-7]. **20-Trifluoroarachidonic acid** $\text{C}_{20}\text{H}_{29}\text{F}_3\text{O}_2$ M 358.443

Used in studying physiological conditions of leukotriene

B₄ synth (see 5,12-Dihydroxy-6,8,10,14-eicosatetraenoic acid, D-01783).

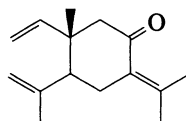
[77297-91-7]

Osbond, J.M. *et al*, *J. Chem. Soc.*, 1961, 2779 (*synth*)Schlenk, H. *et al*, *J. Am. Oil Chem. Soc.*, 1965, **42**, 481 (*occur*)Wagner, H. *et al*, *Naturwissenschaften*, 1965, **52**, 305 (*occur*)Frost, D.J. *et al*, *Chem. Phys. Lipids*, 1975, **15**, 53 (*pmr*)Fryer, R.I. *et al*, *J. Org. Chem.*, 1975, **40**, 348 (*synth*)Gunstone, F.D. *et al*, *Chem. Phys. Lipids*, 1976, **17**, 1 (*cmr*)Corey, E.J. *et al*, *Tetrahedron Lett.*, 1984, **25**, 2729 (*purifn*)Tanaka, Y. *et al*, *Arch. Biochem. Biophys.*, 1988, **263**, 178 (*synth*)Devane, W.A. *et al*, *Science (Washington, D.C.)*, 1992, **258**, 1946*(Anandamide)*Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, AQS750.**2,4,16-Eicosatrienoic acid****E-10010***2,4,16-Icosatrienoic acid* $\text{C}_{20}\text{H}_{34}\text{O}_2$ M 306.487**(2E,4E,16Z)-form***Piperidide*: [145237-20-3]. **Pipereicosalidine** $\text{C}_{25}\text{H}_{43}\text{NO}$ M 373.621Alkaloid from fruits of *Piper retrofractum* (Piperaceae).

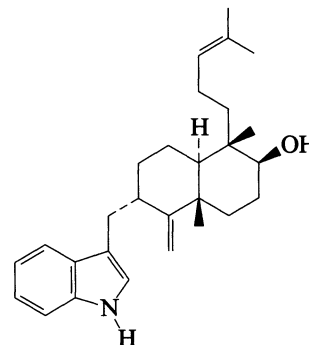
Oil.

Ahn, J.W. *et al*, *Phytochemistry*, 1992, **31**, 3609.**1,3,7(11)-Elematrien-8-one****E-10011****β-Elemenone**

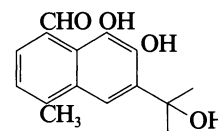
[20303-60-0]

 $\text{C}_{15}\text{H}_{22}\text{O}$ M 218.338Constit. of *Myrica gale* and *Ledum palustre*. Oil. $[\alpha]_D +46^\circ$ (c, 0.8 in CHCl_3).Naya, Y. *et al*, *Heterocycles*, 1978, **10**, 29 (*isol*)Fujisawa, T. *et al*, *Chem. Lett.*, 1983, 1533 (*synth*)Yoshikoshi, A. *et al*, *Chem. Lett.*, 1990, 151 (*synth*)Kato, M. *et al*, *J. Org. Chem.*, 1991, **56**, 7071 (*synth, pmr*)**Emeniveol****E-10012**

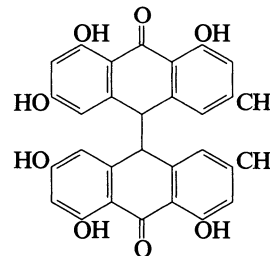
[146001-22-1]

 $\text{C}_{28}\text{H}_{39}\text{NO}$ M 405.622Alkaloid from *Emericella nivea*. Needles (MeOH). Mp 179°. $[\alpha]_D^{20} -91^\circ$ (c, 1 in MeOH).Kimura, Y. *et al*, *Tetrahedron Lett.*, 1992, **33**, 6987 (*isol, pmr, cmr, cryst struct*)**Emmotin I****E-10013***7,8-Dihydroxy-6-(1-hydroxy-1-methylethyl)-4-methyl-1-naphthalenecarboxaldehyde*

[91147-04-5]

 $\text{C}_{15}\text{H}_{16}\text{O}_4$ M 260.289Constit. of *Emmotum nitens*.Goulart, M.O.F. *et al*, *Mikrochim. Acta*, 1986, **4**, 23.**Emodin bianthrone****E-10014***2,2',4,4',5,5'-Hexahydroxy-7,7'-dimethyl[9,9'-bianthrone]-10,10'(9H,9'H)-dione, 9Cl. Rheumemodin bianthrone*

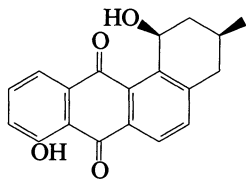
[2506-11-8]

 $\text{C}_{30}\text{H}_{22}\text{O}_8$ M 510.499Constit. of *Cassia* sp. and *Rhamnus* spp. Pale green leaflets (MeOH aq.). Mp >245° dec.Friedrich, H. *et al*, *Phytochemistry*, 1973, **12**, 1459 (*isol*)Cameron, D.W. *et al*, *Aust. J. Chem.*, 1976, **29**, 1509, 1535 (*synth*)

Emycin A

1,2,3,4-Tetrahydro-1,8-dihydroxy-3-methylbenz[a]anthracene-7,12-dione

[127414-87-3]



$C_{19}H_{16}O_4$ M 308.333

Angucycline antibiotic. Prod. by *Streptomyces* sp..

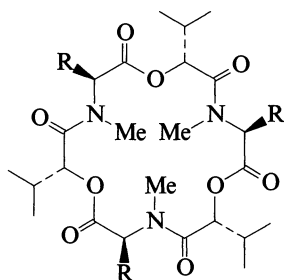
Dobreff, S., Ph.D. Thesis, Univ. of Gottingen, Germany, 1989 (isol)

Enniatin A

Updated Entry replacing E-00260

Lateritiin I

[2503-13-1]



$R = CH(CH_3)CH_2CH_3$

$C_{36}H_{63}N_3O_9$ M 681.908

Cyclic depsipeptide related to the Sporidesmins and Beauvericin. Isol. from *Fusarium orthoceras* and *F. sciroi*. Ionophoric antibiotic. Needles (EtOH aq.). Mp 121-122°. $[\alpha]_D^{18} -90^\circ$ (c, 1.0 in $CHCl_3$).

[11113-62-5, 19248-58-9]

Plattner, Pl.A. et al, *Helv. Chim. Acta*, 1948, **31**, 594 (isol)

Tomita, Y. et al, *CA*, 1971, **75**, 71514e (cryst struct)

Andhya, T.K. et al, *J. Chem. Soc., Perkin Trans. 1*, 1974, 743 (struct, synth)

Deol, B.S. et al, *Aust. J. Chem.*, 1978, **31**, 1397 (isol)

Das, B.C. et al, *J. Antibiot.*, 1979, **32**, 569 (ms)

Madry, N. et al, *Appl. Microbiol. Biotechnol.*, 1984, **20**, 83 (synth)

Steinrauf, L.K., *Met. Ions Biol. Syst.*, 1985, **19**, 139 (rev)

Tomoda, H. et al, *J. Antibiot.*, 1992, **45**, 1207 (isol, struct)

Enniatin A₁

2-(N-Methyl-L-valine)enniatiin A, 9CI

[4530-21-6]

As Enniatin A, E-10016 with

$R^1 = -CH(CH_3)_2$, $R^2 = R^3 = -CH(CH_3)CH_2CH_3$

$C_{35}H_{61}N_3O_9$ M 667.882

Cyclic depsipeptide antibiotic. Isol. from *Fusarium* spp. Ionophore.

Deol, B.S. et al, *Aust. J. Chem.*, 1978, **31**, 1397 (isol, bibl)

Madry, N. et al, *Appl. Microbiol. Biotechnol.*, 1984, **20**, 83 (synth)

Tomoda, H. et al, *J. Antibiot.*, 1992, **45**, 1207 (isol, struct)

E-10015**Enniatin B₁**

2-(N-Methyl-L-isoleucine)enniatiin B, 9CI

[19914-20-6]

As Enniatin A, E-10016 with

$R^1 = R^2 = -CH(CH_3)_2$, $R^3 = -CH(CH_3)CH_2CH_3$

$C_{34}H_{59}N_3O_9$ M 653.855

Cyclic depsipeptide antibiotic. Isol. from *Fusarium* spp. Ionophore.

Deol, B.S. et al, *Aust. J. Chem.*, 1978, **31**, 1397 (isol, bibl)

Madry, N. et al, *Appl. Microbiol. Biotechnol.*, 1984, **20**, 83 (synth)

Tomoda, H. et al, *J. Antibiot.*, 1992, **45**, 1207 (isol, struct)

Enniatin D

[19893-21-1]

As Enniatin A, E-10016 with

$R^1 = R^2 = -CH(CH_3)_2$, $R^3 = -CH_2CH(CH_3)_2$

$C_{34}H_{59}N_3O_9$ M 653.855

Cyclic depsipeptide antibiotic. Isol. from *Fusarium* spp. $[\alpha]_D^{18} -63^\circ$ (c, 0.2 in $CHCl_3$).

Tomoda, H. et al, *J. Antibiot.*, 1992, **45**, 1207 (isol, struct)

Enniatin E

[144470-22-4]

As Enniatin A, E-10016 with

$R^1 = -CH(CH_3)_2$, $R^2 = -CH_2CH(CH_3)_2$,
 $R^3 = -CH(CH_3)CH_2CH_3$
 $R^1 = -CH(CH_3)_2$, $R^2 = -CH(CH_3)CH_2CH_3$,
 $R^3 = -CH_2CH(CH_3)_2$

$C_{35}H_{61}N_3O_9$ M 667.882

Cyclic depsipeptide antibiotic. Isol. from *Fusarium* spp. Ionophore. $[\alpha]_D^{18} -77^\circ$ (c, 1 in $CHCl_3$). Consists of a mixture of two isomers.

Tomoda, H. et al, *J. Antibiot.*, 1992, **45**, 1207 (isol, struct)

Enniatin F

[144446-20-8]

As Enniatin A, E-10016 with

$R^1 = -CH_2CH(CH_3)_2$, $R^2 = R^3 = -CH(CH_3)CH_2CH_3$

$C_{36}H_{63}N_3O_9$ M 681.908

Cyclic depsipeptide antibiotic. Isol. from *Fusarium* spp. Ionophore. $[\alpha]_D^{18} -70.0^\circ$ (c, 1 in $CHCl_3$).

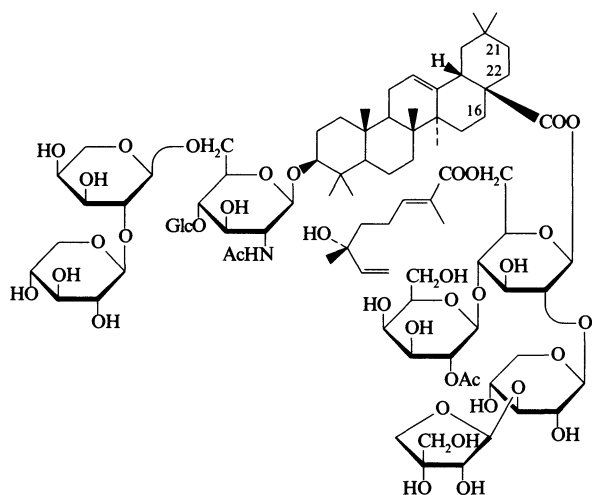
Tomoda, H. et al, *J. Antibiot.*, 1992, **45**, 1207 (isol, struct)

E-10017

Entadasaponin II

[102191-02-6]

E-10022

 $C_{88}H_{139}NO_{42}$ M 1883.048

Complex glycoside of oleanolic acid (see 3-Hydroxy-12-oleanen-28-oic acid, H-02589). Constit. of the bark of *Entada phaseoloides*. Shows antitumour activity. Powder + 5H₂O. Mp 214-216° dec. $[\alpha]_D^{25} -15.2^\circ$ (c, 0.66 in MeOH).

16 α -Hydroxy: [102191-03-7], **Entadasaponin III**

 $C_{88}H_{139}NO_{43}$ M 1899.047

Main saponin of *E. phaseoloides* bark. Mp 211-214° dec. $[\alpha]_D^{25} -27.0^\circ$ (c, 0.33 in MeOH). Complex glycoside of Echinocystic acid (see 3,16-Dihydroxy-12-oleanen-28-oic acid, D-02449).

21 α ,22 α -Dihydroxy: **Entadasaponin IV**

 $C_{88}H_{139}NO_{44}$ M 1915.046

Saponin from *E. phaseoloides* bark. Powder + 6H₂O. Mp 222-225° dec. $[\alpha]_D^{25} -22.7^\circ$ (c, 7.0 in MeOH).

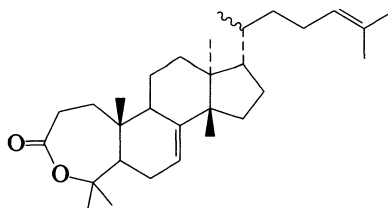
Okada, Y. *et al*, *Phytochemistry*, 1987, **26**, 2789.

Okada, Y. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 1264.

Entandrolide

[65402-13-3]

E-10023

 $C_{30}H_{48}O_2$ M 440.708

Struct., incorrect in ref. Constit. of *Entandrophragma* sp.

Cryst. (MeOH/CH₂Cl₂). Mp 125-128°. $[\alpha]_D -94^\circ$.

Okorie, D.A. *et al*, *Phytochemistry*, 1977, **16**, 2029 (*isol, pmr, cmr*)

Entanin

[72980-57-5]

E-10024

Triterpenoid glycoside of unknown struct. Constit. of the seed kernels of *Entada scandens*.

Indian Pat., 140 384, (1976); *CA*, **92**, 107612 (*isol*)

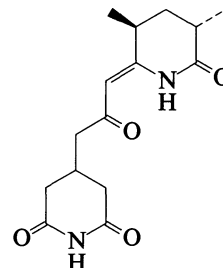
Epiderstatin

E-10025

Updated Entry replacing E-00301

4-[3-(3,5-Dimethyl-6-oxo-2-piperidinylidene)-2-oxopropyl]-2,6-piperidinedione, 9CI

[126602-16-2]

 $C_{15}H_{20}N_2O_4$ M 292.334

Glutarimide antibiotic. Prod. by *Streptomyces pulveraceus* ssp. *epiderstagenes*. Inhibitor of mitogenic activity induced by epidermal growth factor. Powder. Mp 185-187°. $[\alpha]_D^{21} +5.3^\circ$ (c, 0.22 in MeOH).

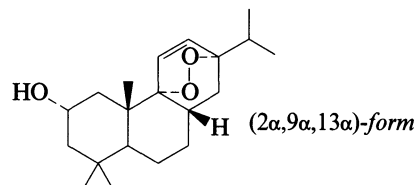
Osada, H. *et al*, *J. Antibiot.*, 1989, **42**, 1599, 1607 (*isol, struct, props*)

Sonoda, T. *et al*, *J. Antibiot.*, 1992, **45**, 1963 (*abs config*)

9,13-Epidioxy-11-abieten-2-ol

E-10026

9,13-Endoperoxy-11-abieten-2-ol

 $C_{20}H_{32}O_3$ M 320.471

Errors in diagrams in reference.

(2 α ,9 α ,13 α)-form

Cryst. (MeOH). Mp 142-144°. $[\alpha]_D^{25} -97.4^\circ$ (c, 1.4 in CHCl₃).

Malonyl ester:

 $C_{23}H_{34}O_6$ M 406.518

Constit. of *Calceolaria purpurea*. Oil (as Me ester). $[\alpha]_D^{20} -64.2^\circ$ (c, 1 in CHCl₃) (Me ester).

(2 α ,9 β ,13 β)-form

Malonyl ester: Constit. of *C. purpurea*. Oil (as Me ester).

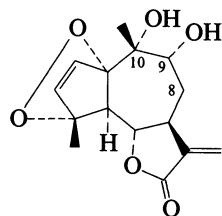
$[\alpha]_D^{25} -10.6^\circ$ (c, 1 in CHCl₃) (Me ester).

Chamy, M.C. *et al*, *Phytochemistry*, 1993, **34**, 1103 (*isol, pmr, cmr, cryst struct*)

1,4-Epidioxy-9,10-dihydroxy-2,11(13)-guaidiene-12,6-olide

E-10027

Updated Entry replacing E-00306

 $C_{15}H_{18}O_6$ M 294.304**(1 α ,4 α ,5 α ,6 α ,9 α ,10 α)-form**

9-Ac: [79858-81-4]. *Apresin*

$C_{17}H_{20}O_7$ M 336.341

Constit. of *Achillea depressa*. Cryst. (EtOAc/pet. ether).
Mp 182-184°. $[\alpha]_D^{20} -46.6^\circ$ (c, 0.3 in EtOH).

10-Ac: [116384-08-8]. **Isoapressin**

$C_{17}H_{20}O_7$ M 336.341

Constit. of *A. ligustica*.

9-Deoxy: [85799-10-6]. **1,4-Epidioxy-10-hydroxy-2,11(13)-guaiadien-12,6-olide. Tanaparthin α -peroxide**

$C_{15}H_{18}O_5$ M 278.304

Constit. of *Tanacetum parthenium*. Cryst. Mp 95-96°.
 $[\alpha]_D^{20} -32.1^\circ$ (c, 0.11 in $CHCl_3$).

9-Angeloyl: [143062-44-6].

$C_{20}H_{24}O_7$ M 376.405

Isol. from *Ursinia dentata*.

9-(2-Methylpropanoyl): [134315-86-5].

$C_{19}H_{24}O_7$ M 364.394

Constit. of *U. dentata*.

9-(3-Methylbutanoyl): [131574-98-6].

$C_{20}H_{26}O_7$ M 378.421

Constit. of *U. dentata*.

9-(2-Methylbutanoyl): [131574-99-7].

$C_{20}H_{26}O_7$ M 378.421

Constit. of *U. dentata*.

10-Tigloyl: **α -Peroxyachifolide**

$C_{20}H_{24}O_7$ M 376.405

Constit. of *A. millefolium*. Needles (EtOH). Mp 154°.

(1 β ,4 β ,5 α ,6 α ,9 α ,10 α)-form

9-Angeloyl: [72635-10-0]. **Athanadregeolide**

$C_{20}H_{24}O_7$ M 376.405

Constit. of *Athanasia dregeana*. Oil. $[\alpha]_D^{24} -20^\circ$ (c, 2 in $CHCl_3$).

9-Deoxy: [85758-28-7]. **Tanaparthin β -peroxide**

$C_{15}H_{18}O_5$ M 278.304

Constit. of *T. parthenium*. Gum.

8 α -Hydroxy, 9-angeloyl: **8 α -Hydroxyanthadregeolide**

$C_{20}H_{24}O_8$ M 392.405

From *A. dregeana*. Cryst. (Et₂O/pet. ether). Mp 172-173°.

10-Tigloyl: **β -Peroxyachifolide**

$C_{20}H_{24}O_7$ M 376.405

Constit. of *A. millefolium*. Needles (EtOH).

(1 β ,4 β ,5 α ,6 α ,9 α ,10 β)-form

9-Angeloyl: [72690-44-9]. **10-Epiathanadregeolide**

$C_{20}H_{24}O_7$ M 376.405

Constit. of *A. dregeana*. Oil.

Bohlmann, F. et al, *Phytochemistry*, 1979, **18**, 995; 1982, **21**, 2543
(*Athanadregeolide*, *Tanaparthin peroxides*)

Tsankova, E. et al, *Phytochemistry*, 1981, **20**, 1436 (*Apressin*)

Bruno, M. et al, *Phytochemistry*, 1988, **27**, 1871 (*Isoapressin*)

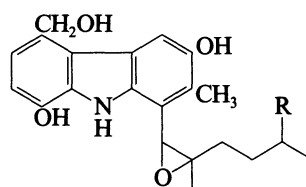
Begley, M.J. et al, *Phytochemistry*, 1989, **28**, 940 (*Tanaparthin peroxides*)

Rücker, G. et al, *Arch. Pharm. (Weinheim, Ger.)*, 1991, **324**, 979
(*Peroxyachifolides*)

Jakupovic, J. et al, *Phytochemistry*, 1992, **31**, 863 (*isol, pmr*)

Epocarbazolin A

E-10028



R = CH₃

$C_{22}H_{27}NO_4$ M 355.433

Prod. by *Streptomyces anulatus*. 5-Lipoxygenase inhibitor.

Active against gram-positive bacteria. Pale yellow powder. Mp >100°. $[\alpha]_D^{26} +75^\circ$ (c, 0.5 in MeOH). Unstable to light.

Nihei, Y. et al, *J. Antibiot.*, 1993, **46**, 25 (*isol, pmr, cmr, struct, props*)

Epocarbazolin B

E-10029

As Epocarbazolin A, E-10028 with

R = —CH₂CH₃

$C_{23}H_{29}NO_4$ M 369.460

Prod. by *Streptomyces anulatus*. 5-Lipoxygenase inhibitor.

Active against gram-positive bacteria. Pale yellow powder. Mp >100°. $[\alpha]_D^{26} +78^\circ$ (c, 0.5 in MeOH). Unstable to light.

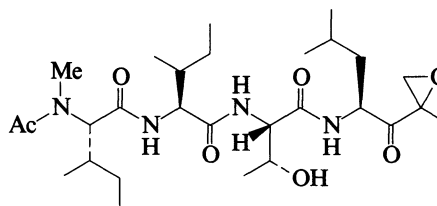
Nihei, Y. et al, *J. Antibiot.*, 1993, **46**, 25 (*isol, pmr, cmr, struct, props*)

Epoxomicin

E-10030

BU 4061T. Antibiotic BU 4061T

[134381-21-8]



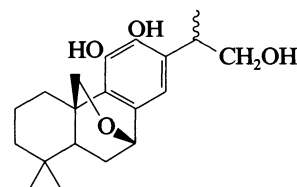
$C_{28}H_{50}N_4O_7$ M 554.726

Tripeptide antibiotic. Prod. by an actinomycete strain No. Q996-17. Antitumour agent. Powder. Mp 107-109°.
 $[\alpha]_D^{24.5} -66.1^\circ$ (c, 0.5 in MeOH).

Hanada, M. et al, *J. Antibiot.*, 1992, **45**, 1746 (*isol, pmr, cmr, struct*)

7,20-Epoxy-8,11,13-abietatriene-11,12,16-triol

E-10031



$C_{20}H_{28}O_4$ M 332.439

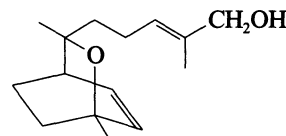
(7 β ,15 ξ)-form [150065-60-4] **16-Hydroxy-20-deoxocarnosol**
Constit. of *Salvia mellifera*. Amorph. solid.

Luis, J.G. et al, *Phytochemistry*, 1993, **33**, 635 (*isol, pmr, cmr*)

3,7-Epoxy-1,10-bisaboladien-12-ol

E-10032

1,8-Dehydrosesquicineol-12-ol



$C_{15}H_{24}O_2$ M 236.353

Ac: [149067-91-4].

$C_{17}H_{26}O_3$ M 278.391

Constit. of *Artemisia sieberi*.

Propanoyl: [149067-92-5].

$C_{18}H_{28}O_3$ M 292.417

Constit. of *A. sieberi*.

Methylpropanoyl: [149067-93-6].

$C_{19}H_{30}O_3$ M 306.444

Constit. of *A. sieberi*.

Butanoyl: [149067-94-7].

$C_{19}H_{30}O_3$ M 306.444

Constit. of *A. sieberi*.

3-Methylbutanoyl:

$C_{20}H_{32}O_3$ M 320.471

Constit. of *A. sieberi*.

Pentanoyl:

$C_{20}H_{32}O_3$ M 320.471

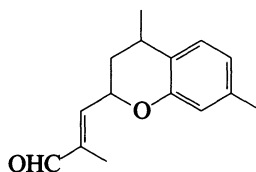
Constit. of *A. sieberi*.

Weyerstahl, P. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 111 (*isol*, *pmr*, *cmr*)

1,9-Epoxy-1,3,5,10-bisabolatetraen-12-al E-10033

3-(3,4-Dihydro-4,7-dimethyl-2H-1-benzopyran-2-yl)-2-methyl-2-propenal, 9CI. 2,9-Epoxycurcumen-12-al

[134151-40-9]



$C_{15}H_{18}O_2$ M 230.306

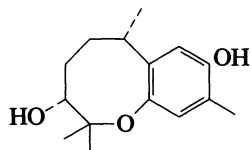
Isol. from *Polyachyrus fuscus*. Oil.

Pritschow, P. *et al*, *Phytochemistry*, 1991, 30, 893.

6,11-Epoxy-1,3,5-bisabolatriene-3,10-diol E-10034

Heliannuol A

[148054-17-5]



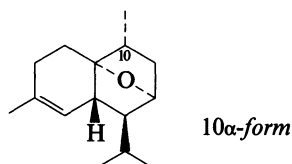
$C_{15}H_{22}O_3$ M 250.337

Constit. of *Helianthus annuus*. Cryst. ($CHCl_3$). Mp 80-81°.

$[\alpha]_D^{20}$ –55.4° (c, 0.3 in MeOH).

Macías, F.A. *et al*, *Tetrahedron Lett.*, 1993, 34, 1999 (*isol*, *pmr*, *cmr*, *cryst struct*)

1,8-Epoxy-4-cadinene E-10035



$C_{15}H_{24}O$ M 220.354

10α-form

Constit. of *Pulicaria gnaphaloides*. Oil. $[\alpha]_D^{20}$ +43.5° (c, 0.6 in $CHCl_3$).

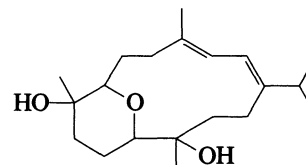
10β-form

Constit. of *P. gnaphaloides*. Oil.

Weyerstahl, P. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 1117 (*isol*, *pmr*, *cmr*)

7,11-Epoxy-1,3-cembradiene-8,12-diol E-10036

[147217-21-8]

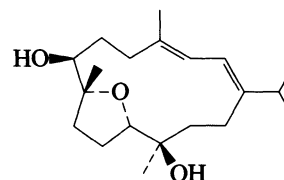


$C_{20}H_{34}O_3$ M 322.487

Constit. of a *Eunicea* sponge. Oil. $[\alpha]_D$ –85.8° (c, 0.9 in MeOH).

Shin, J. *et al*, *Tetrahedron*, 1993, 49, 515 (*isol*, *pmr*, *cmr*)

8,11-Epoxy-1,3-cembradiene-7,12-diol E-10037



$C_{20}H_{34}O_3$ M 322.487

(*1E,3E,7β,8α,11α,12β*)-form [147217-19-4]

Constit. of a *Eunicea* sponge. Cryst. (Me_2CO). Mp 131-132°. $[\alpha]_D$ –85.8° (c, 0.8 in MeOH).

7-Ac: [147217-20-7].

$C_{22}H_{36}O_4$ M 364.524

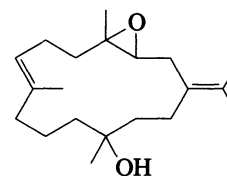
Constit. of a *E.* sponge. Cryst. (Me_2CO /hexane). Mp 96-98°. $[\alpha]_D$ –35.3° (c, 0.5 in MeOH).

Shin, J. *et al*, *Tetrahedron*, 1993, 49, 515 (*isol*, *pmr*, *cmr*, *cryst struct*)

3,4-Epoxy-1(15),7-cembradien-12-ol E-10038

Setiformenol

[146621-73-0]



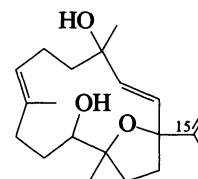
$C_{20}H_{34}O_2$ M 306.487

Constit. of the liverwort *Tetralophozia setiformis*. Oil. $[\alpha]_D^{25}$ +19.3° (c, 1.22 in $CHCl_3$).

Tori, M. *et al*, *Phytochemistry*, 1993, 34, 181 (*isol*, *pmr*, *cmr*)

Tori, M. *et al*, *Tetrahedron Lett.*, 1993, 34, 643 (*isol*, *pmr*, *cmr*)

1,12-Epoxy-2,7,15-cembratriene-4,11-diol E-10039



$C_{20}H_{32}O_3$ M 320.471

Constit. of *Simularia ovispiculata*. Cryst. Mp 156-158°. $[\alpha]_D^{25}$ +81.0° (c, 0.59 in MeOH).

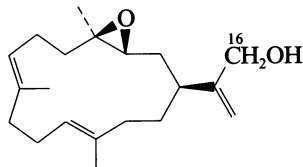
15,16-Dihydro: 1,12-Epoxy-2,7-cembradiene-4,11-diol

$C_{20}H_{34}O_3$ M 322.487

Isol. from *S. ovispiculata*. Cryst. Mp 143-145°. $[\alpha]_D^{25}$ +113.5° (c, 0.1 in CHCl_3).

Rao, C.B. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 2003 (*isol, pmr, cmr*)

3,4-Epoxy-7,11,15(17)-cembratrien-16-ol E-10040



$\text{C}_{20}\text{H}_{32}\text{O}_2$ M 304.472

(3R,4R,7E,11E)-form [148149-83-1] *Pseudoplexaurol*

Constit. of *Pseudoplexaura porosa*. Oil. $[\alpha]_D^{26}$ -21.5° (c, 3.4 in CHCl_3).

16-Carboxylic acid: 3,4-Epoxy-7,11,15(17)-cembratrien-16-oic acid. *Pseudoplexauric acid*

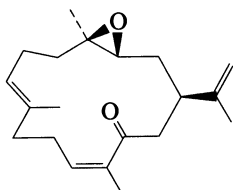
$\text{C}_{20}\text{H}_{30}\text{O}_3$ M 318.455

Constit. of *Eunicea mammosa*. $[\alpha]_D^{25}$ -15.18° (c, 2.7 in CHCl_3) (as Me ester).

Rodríguez, A.D. *et al*, *Experientia*, 1993, **49**, 179 (*isol, pmr, cmr*)

Rodríguez, A.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1101 (*isol, pmr, cmr*)

3,4-Epoxy-7,11,15-cembratrien-13-one E-10041



(1R,3R,4R,7E,11Z)-form

$\text{C}_{20}\text{H}_{30}\text{O}_2$ M 302.456

(1R,3R,4R,7E,11Z)-form

Constit. of *Eunicea mammosa*. Oil. $[\alpha]_D^{25}$ -5.38° (c, 2.6 in CHCl_3).

(1S,3S,4S,7E,11E)-form [65634-83-5]

Constit. of an unidentified soft coral. Oil. $[\alpha]_D^{20}$ +12.78° (c, 1.65 in CHCl_3).

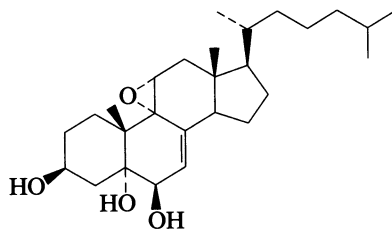
(1S,3S,4S,7E,11Z)-form

Constit. of an unidentified soft coral. Oil. $[\alpha]_D^{20}$ +8.8° (c, 1.6 in CHCl_3).

Ravi, B.N. *et al*, *J. Org. Chem.*, 1978, **43**, 2127 (*isol, pmr, cmr*)

Rodríguez, A.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1101 (*isol, pmr, cmr*)

9,11-Epoxycholest-7-ene-3,5,6-triol E-10042



$\text{C}_{27}\text{H}_{44}\text{O}_4$ M 432.642

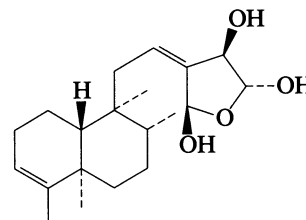
(3β,5α,6β,9α,11α)-form [120152-00-3]

Isol. from marine gastropod *Planaxis sulcatus*. Cryst. (Me_2CO). Mp 237-239°. $[\alpha]_D^{20}$ -29.1° (c, 0.3 in CHCl_3).

Alam, M. *et al*, *Steroids*, 1988, **52**, 45 (*isol*)

Migliuolo, A. *et al*, *Steroids*, 1991, **56**, 154 (*synth, pmr, cmr*)

15,16-Epoxy-3,12-clerodadiene-14,15,16-triol E-10043



$\text{C}_{20}\text{H}_{32}\text{O}_4$ M 266.336

(ent-12Z,14S,15S,16S)-form

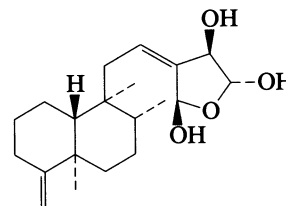
Tri-Ac:

$\text{C}_{26}\text{H}_{38}\text{O}_7$ M 392.448

Constit. of *Linaria saxatilis*. Cryst. (hexane). Mp 161-162°. $[\alpha]_D^{23}$ -101.6° (c, 0.99 in CHCl_3).

San Feliciano, A. *et al*, *Phytochemistry*, 1993, **33**, 631 (*isol, pmr, cmr*)

15,16-Epoxy-4(18),12-clerodadiene-14,15,16-triol E-10044



$\text{C}_{20}\text{H}_{32}\text{O}_4$ M 336.470

(ent-12Z,14S,15S,16S)-form

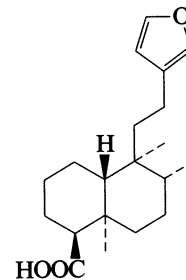
Tri-Ac:

$\text{C}_{26}\text{H}_{38}\text{O}_7$ M 462.582

Constit. of *Linaria saxatilis* var. *glutinosa*. Cryst. (hexane). Mp 141-143°.

San Feliciano, A. *et al*, *Tetrahedron*, 1993, **49**, 9067 (*isol, pmr, cmr, cryst struct*)

15,16-Epoxy-13(16),14-clerodadien-18-oic acid E-10045



$\text{C}_{20}\text{H}_{30}\text{O}_3$ M 318.455

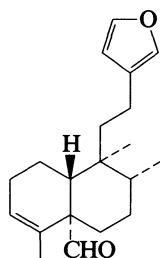
(ent-4βH)-form [148302-74-3] *Crolechinic acid*

Constit. of *Croton lechleri*.

Cai, Y. *et al*, *Phytochemistry*, 1993, **32**, 755 (*isol, pmr, cmr*)

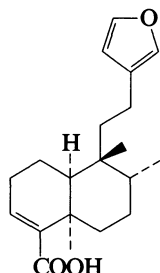
15,16-Epoxy-3,13(16),14-clerodatrien-19-al

E-10046

 $C_{20}H_{28}O_2$ M 300.440*ent-form* [38611-52-8] *Hoffmannialdehyde*Constit. of *Croton cortesianus*.Siems, K. *et al*, *Phytochemistry*, 1992, 31, 4363 (*isol*, *pmr*, *cmr*)

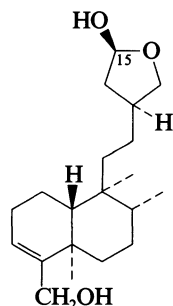
15,16-Epoxy-3,13(16),14-clerodatrien-18-oic acid

E-10047

 $C_{20}H_{28}O_3$ M 316.439*(5α,8βH)-form* [148810-31-5] *Tinotufolin B*Constit. of *Tinospora tuberculata*. Oil. $[\alpha]_D^{27} -71.0^\circ$ (c, 1.95 in MeOH).Fukuda, N. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 325 (*isol*, *pmr*, *cmr*)

15,16-Epoxy-3-clerodene-15,18-diol

E-10048

*(ent-13R,15R)-form* $C_{20}H_{34}O_3$ M 322.487*(ent-13R,15R)-form*

15-Me ether: 15,16-Epoxy-15-methoxy-3-clerodene-18-ol

 $C_{21}H_{36}O_3$ M 336.514Constit. of *Baccharis trinervis*. Oil. $[\alpha]_D +17.6^\circ$ (c, 3.4 in $CHCl_3$).

15-Et ether: 15,16-Epoxy-15-ethoxy-3-clerodene-18-ol

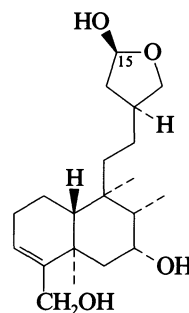
 $C_{22}H_{38}O_3$ M 350.540Constit. of *B. trinervis*. Oil. $[\alpha]_D +22.6^\circ$ (c, 0.64 in $CHCl_3$).

15-Me ether, 18-(methylmalonyl):

 $C_{25}H_{40}O_6$ M 436.587Constit. of *B. trinervis*. Oil.*(ent-13R,15R)-form*15-Me ether: Constit. of *B. trinervis*. Oil. $[\alpha]_D -90.9^\circ$ (c, 1.2 in $CHCl_3$).15-Et ether: Constit. of *B. trinervis*. Oil. $[\alpha]_D -91.9^\circ$ (c, 0.24 in $CHCl_3$).15-Me ether, 18-(methylmalonyl): Constit. of *B. trinervis*. Oil. $[\alpha]_D -81.2^\circ$ (c, 1.5 in $CHCl_3$).Kuroyanagi, M. *et al*, *Phytochemistry*, 1993, 34, 1377 (*isol*, *pmr*, *cmr*)

15,16-Epoxy-3-clerodene-7,15,18-triol

E-10049

*(ent-7β,13R,15R)-form* $C_{20}H_{34}O_4$ M 338.486*(ent-7β,13R,15R)-form*

15-Me ether, 18-Ac:

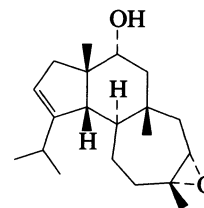
 $C_{23}H_{38}O_5$ M 394.550Constit. of *Baccharis trinervis*. Oil.

15-Me ether, 18-(methylmalonyl):

 $C_{25}H_{40}O_7$ M 452.587Constit. of *B. trinervis*. Oil. $[\alpha]_D -35.6^\circ$ (c, 0.24 in $CHCl_3$).*(ent-7β,13R,15S)-form*15-Me ether, 18-Ac: Constit. of *B. trinervis*. Oil.15-Me ether, 18-(methylmalonyl): Constit. of *B. trinervis*. Oil.*(ent-7β,13ξ,15ξ)-form*15-Me ether: *ent-15,16-Epoxy-15-methoxy-3-clerodene-7,18-diol* $C_{21}H_{36}O_4$ M 352.513Constit. of *B. articulata*. Oil. $[\alpha]_D^{25} -47.5^\circ$ (c, 0.4 in $CHCl_3$).Dai, J. *et al*, *Phytochemistry*, 1993, 34, 1087 (*isol*, *pmr*, *cmr*)Kuroyanagi, M. *et al*, *Phytochemistry*, 1993, 34, 1377 (*isol*, *pmr*, *cmr*)

12,13-Epoxy-2-cyathen-8-ol

E-10050

 $C_{20}H_{32}O_2$ M 304.472*(8α,12α,13α)-form*

Ac: [144967-84-0]. 8α-Acetoxy-12α,13α-epoxy-2-cyathene

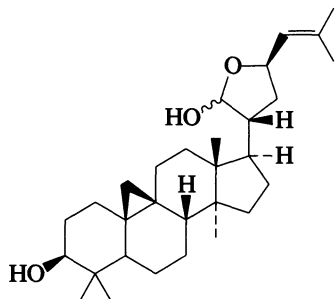
 $C_{22}H_{34}O_3$ M 346.509Constit. of *Myrmekioderma styx*. $[\alpha]_D^{22} -87.7^\circ$ (c, 0.018 in CH_2Cl_2).Sennett, S.H. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, 55, 1421 (*isol*, *pmr*, *cmr*)

21,23-Epoxychoart-24-ene-3,21-diol

E-10051

$C_{43}H_{70}O_{14}$ M 810.991
 Constit. of *T. herba*. Powder. $[\alpha]_D - 32.2^\circ$ (MeOH).

Yoshimitsu, H. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 786 (*isol*, *pmr*, *cmr*)

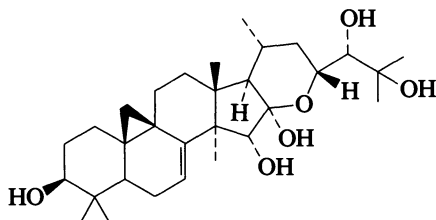


$C_{30}H_{48}O_3$ M 456.707
(3 β ,21 ξ ,23R)-form [146257-70-7]
 Constit. of *Monocyclanthus vignei*. Amorph.
 [146257-69-4]

Achenbach, H. *et al*, *Phytochemistry*, 1992, **31**, 4263 (*isol*, *pmr*, *cmr*)

16,23-Epoxychoart-7-ene-3,15,16,24,25-pentol

E-10052



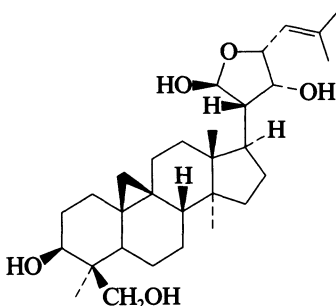
$C_{30}H_{48}O_6$ M 504.706
(3 β ,15 α ,16 α OH,23R,24S)-form
 3-O- β -D-Xylopyranoside, 24-Ac: [150972-78-4].

$C_{37}H_{58}O_{11}$ M 678.859
 Constit. of *Cimicifuga heracleifolia*. Powder. $[\alpha]_D - 27.4^\circ$
 (c, 0.62 in $CHCl_3$ /MeOH).

Li, J.X. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 832 (*isol*, *pmr*, *cmr*)

21,23-Epoxychoart-24-ene-3,21,22,30-tetrol

E-10053

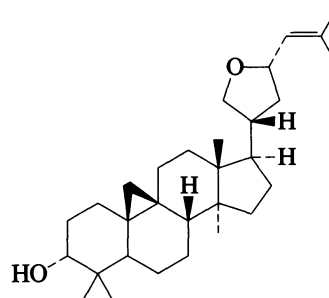


$C_{30}H_{48}O_5$ M 488.706
(3 β ,20S,21R,22R,23R)-form
 21 Me ether, 3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside]: [150968-30-2]. **Thalictoside I**
 $C_{43}H_{70}O_{14}$ M 810.991
 Constit. of *Thalictri herba*. Powder. $[\alpha]_D + 10.3^\circ$
 (MeOH).

(3 β ,20S,21S,22R,23R)-form
 21 Me ether, 3-O-(α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside): [150968-29-9]. **Thalictoside II**

21,23-Epoxychoart-24-en-3-ol

E-10054

(3 α ,23S)-form

$C_{30}H_{48}O_2$ M 440.708
(3 α ,23S)-form [146257-58-1]
 Constit. of *Monocyclanthus vignei*. Cryst. (MeOH). Mp 166-168°. $[\alpha]_D^{25} + 5^\circ$ (c, 0.8 in $CHCl_3$).

3-Ketone: [146257-75-2]. **21,23-Epoxychoart-24-en-3-one**

$C_{30}H_{46}O_2$ M 438.692
 Constit. of *M. vignei*.

(3 β ,23R)-form [146257-76-3]
 Constit. of *M. vignei*.

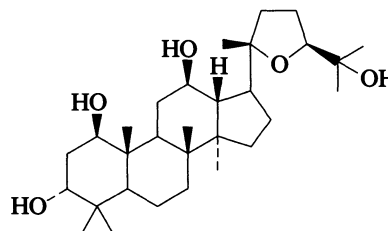
3-Ketone: [146257-74-1].
 $C_{30}H_{46}O_2$ M 438.692
 Constit. of *M. vignei*.

(3 β ,23S)-form [146257-77-4]
 Constit. of *M. vignei*.

Achenbach, H. *et al*, *Phytochemistry*, 1992, **31**, 4263 (*isol*, *pmr*, *cmr*)

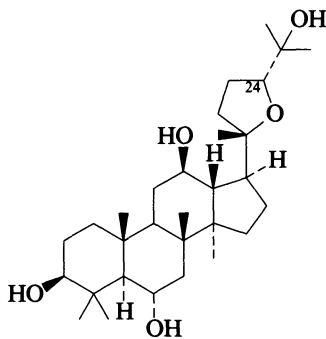
20,24-Epoxy-1,3,12,25-dammaranetetrol

E-10055

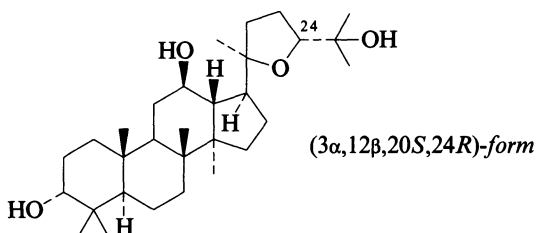


$C_{30}H_{52}O_5$ M 492.738
(1 β ,3 α ,12 β ,20S,24S)-form [145700-90-9]
 Constit. of *Polansia dodecandra*. Prisms. Mp 234-238°. $[\alpha]_D - 86.5^\circ$ (c, 0.89 in $CHCl_3$).
 [145700-91-0]

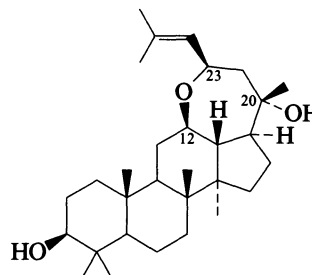
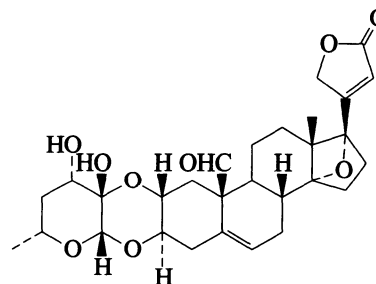
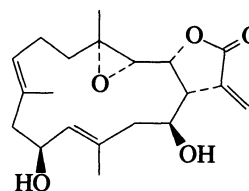
Shi, Q. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1488 (*isol*, *pmr*, *cmr*, *cryst struct*)

20,24-Epoxy-3,6,12,25-dammaranetetrol E-10056C₃₀H₅₂O₅ M 492.738**(3β,6α,12β,24R)-form**6-O-*Neohesperidoside*: [69884-00-0]. *Ginsenoside A₁*.*Pseudoginsenoside F₁₁*C₄₂H₇₂O₁₄ M 801.022Isol. from *Panax* spp. Powder + 3H₂O. [α]_D²⁴ – 12.0° (c, 0.43 in MeOH).Tanaka, O. *et al*, *Phytochemistry*, 1978, 17, 1353.**20,24-Epoxydammarane-3,12,25-triol** E-10057

Updated Entry replacing E-00467

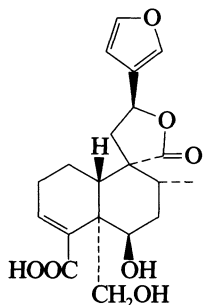
C₃₀H₅₂O₄ M 476.738

20 and 24 configs. not fully clear and appear to be incorrect in CA.

(3α,12β,20S,24R)-form [19942-05-3] *Betulafolienetriol oxide I*
Constit. of *Betula platyphylla*. Cryst. (Me₂CO). Mp 237-240°. [α]_D²² + 2.6° (c, 1.2 in CHCl₃).**3-Malonyl: Deacetylpapyriferic acid**C₃₃H₅₄O₇ M 562.785Constit. of *B. glandulosa*. Oil. [α]_D – 25° (c, 0.05 in CH₂Cl₂).**3-Malonyl, 12-Ac:** [78782-15-7]. *Papyriferic acid*C₃₅H₅₆O₈ M 604.823Constit. of *B. papyrifera*, *B. resinifera* and *B. glandulosa*. Cryst. (Me₂CO/cyclohexane). Mp 203-204° dec. [α]_D – 18° (c, 0.056 in CHCl₃).**(3β,12β,20R,24R)-form** [25330-18-1] *Pyxinol*Constit. of *Pyxine endochrysin*. Cryst. (MeOH aq.). Mp 225-226°. [α]_D + 62.8° (CHCl₃).**3-Ac:** [38001-86-4].C₃₂H₅₄O₅ M 518.776Constit. of *P. endochrysin*. Cryst. (MeOH aq.). Mp 196-197°. [α]_D + 28.2° (c, 1.06 in CHCl₃).**12-Ac:**C₃₂H₅₄O₅ M 518.776Constit. of *Notholaena rigida*. Cryst. Mp 177-179°.**3,12-Di-Ac:**C₃₄H₅₆O₆ M 560.813Constit. of *N. rigida*.**3,25-Di-Ac:** [25279-14-5].C₃₄H₅₆O₆ M 560.813Constit. of *P. endochrysin*. Cryst. (EtOAc). Mp 240-241°. [α]_D + 10° (c, 1.0 in CHCl₃).**(3β,12β,20S,24S)-form**Constit. of *N. greggii*. Cryst. (Et₂O/hexane). Mp 147°. [α]_D²⁵ – 24.5° (c, 0.8 in CHCl₃).Yamauchi, H. *et al*, *Tetrahedron Lett.*, 1969, 4245 (*cryst struct*)Yosioka, I. *et al*, *Chem. Pharm. Bull.*, 1972, 20, 502 (*isol, struct*)Nagai, M. *et al*, *Chem. Pharm. Bull.*, 1973, 21, 2061 (*isol*)Reichardt, P.B. *et al*, *J. Org. Chem.*, 1981, 46, 4576 (*Papyriferic acid*)Arriaga-Giner, F.J. *et al*, *Z. Naturforsch., C*, 1991, 46, 507; 1992, 47, 508 (*isol, pmr, cmr*)Appendino, G. *et al*, *Phytochemistry*, 1992, 31, 923 (*isol, pmr, cmr, cryst struct*)Williams, D.E. *et al*, *Phytochemistry*, 1992, 31, 2321 (*Deacetylpapyriferic acid*)**12,23-Epoxydammar-24-ene-3,20-diol** E-10058C₃₀H₅₀O₃ M 458.723**(3β,12β,20S,23R)-form****3,20-Di-O-β-D-glucopyranoside:** [123617-34-5]. *Ginsenoside La*C₄₂H₇₀O₁₃ M 783.007Constit. of *Panax ginseng*. Needles (MeOH). Mp 179-180°. [α]_D – 18.4° (Py).Zhang, S. *et al*, *Chem. Pharm. Bull.*, 1989, 37, 1966.**14,17-Epoxy-5,6-dehydrocalotropin** E-10059C₂₉H₃₆O₉ M 528.598Isol. from *Gomphocarpus sinaicus*. Cryst. Mp 172-175°.El-Askary, H. *et al*, *Phytochemistry*, 1993, 34, 1399.**3,4-Epoxy-10,14-dihydroxy-7,11,15(17)-cembratrien-16,2-olide** E-10060C₂₀H₂₈O₅ M 348.438

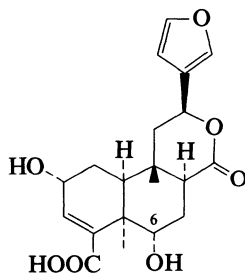
(1S,2S,3R,4S,10S,14S)-form*Di-Ac*: [145038-59-1]. **Lobomichaolide** $C_{24}H_{32}O_7$ M 432.513Constit. of *Lobophytum michaelae*. Prisms. Mp 180-181°. $[\alpha]_D^{25} + 54.9^\circ$ (c, 0.16 in $CHCl_3$).Wang, S.-K. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, 55, 1430 (*isol*, *pmr*, *cmr*, *cryst struct*)**15,16-Epoxy-6,19-dihydroxy-3,13(16),14-clerodatrien-20,12-olid-18-oic acid**

E-10061

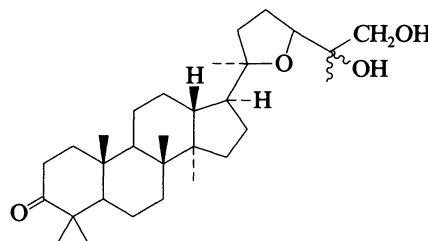
 $C_{20}H_{24}O_7$ M 376.405**(ent-6 α ,12 β H)-form***Me ester*: **Teupernin D \dagger** $C_{21}H_{26}O_7$ M 390.432Constit. of *Teucrium pernyi*. Cryst. (MeOH). Mp 186-188°.Di-An, S. *et al*, *Phytochemistry*, 1993, 33, 716 (*isol*, *pmr*, *cmr*)**15,16-Epoxy-2,6-dihydroxy-3,13(16),14-clerodatrien-17,12-olid-18-oic acid**

E-10062

Updated Entry replacing E-00512

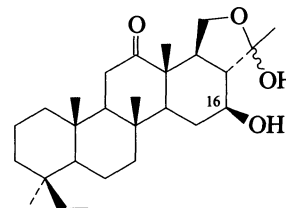
 $C_{20}H_{24}O_7$ M 376.405**(2 α ,5 α ,6 α ,12 α H)-form***Me ester*: [104901-06-6]. **Borapetol B** $C_{21}H_{26}O_7$ M 390.432Constit. of stems of *Tinospora tuberculata*. Granules (Me_2CO aq.). Mp 117-118°. $[\alpha]_D - 14.1^\circ$ (c, 1.165 in MeOH).6-O- β -D-Glucopyranoside, *Me ester*: [104901-05-5].**Borapetoside B** $C_{27}H_{36}O_{12}$ M 552.574Constit. of stems of *T. tuberculata*. Needles. Mp 153-154°. $[\alpha]_D - 15.7^\circ$.6-O- β -D-Glucopyranoside, *Me ester*, 2-ketone: **Borapetoside G** $C_{27}H_{34}O_{12}$ M 550.558Constit. of *T. tuberculata*.Fukuda, N. *et al*, *Chem. Pharm. Bull.*, 1986, 34, 2868.Fukuda, N. *et al*, *Justus Liebig's Ann. Chem.*, 1993, 491 (*Borapetoside G*)**20,24-Epoxy-25,26-dihydroxydammaran-3-one**

E-10063

 $C_{30}H_{50}O_4$ M 474.723**(20S,24R,25 ξ)-form** [146830-04-8] $C_{30}H_{50}O_4$ M 474.723Constit. of *Mangifera indica*. Cryst. ($CHCl_3/MeOH$).Mp 143-144°. $[\alpha]_D^{30} + 34^\circ$ (c, 0.5 in $CHCl_3$).Anjaneyulu, V. *et al*, *Phytochemistry*, 1993, 32, 469 (*isol*, *pmr*, *cmr*)**24,25-Epoxy-16,24-dihydroxy-20,24-dimethyl-12-scalaranone**

E-10064

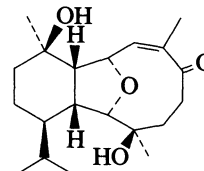
Updated Entry replacing E-00521

 $C_{27}H_{44}O_4$ M 432.642**(16 β ,24 ξ)-form***16-Ac*: [73731-34-7]. **Scalardysin B** $C_{29}H_{46}O_5$ M 474.679Constit. of *Dysidea herbacea*.*24-Me ether, 16-Ac*: [125990-23-0]. **Phylloketal** $C_{30}H_{48}O_5$ M 488.706Constit. of *Phyllospongia foliascens*. Needles (Me_2CO).

Mp 201-202°.

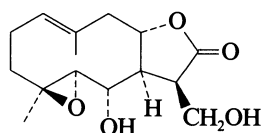
Kashman, Y. *et al*, *Tetrahedron Lett.*, 1979, 3879 (*isol*)Fu, X. *et al*, *Chin. Chem. Lett.*, 1991, 2, 543 (*Phylloketal*)**6,13-Epoxy-4,12-dihydroxy-7-eunicellen-9-one**

E-10065

 $C_{20}H_{32}O_4$ M 336.470**(4 β ,6 α ,12 β ,13 α)-form***Di-Ac*: [151515-28-5]. **Palmonine E** $C_{24}H_{36}O_6$ M 420.545Constit. of *Eunicella verrucosa*. Cryst. Mp 152-153°. $[\alpha]_D$ -17.25° (c, 0.4 in $CHCl_3$).Ortega, M.J. *et al*, *Tetrahedron*, 1993, 49, 7823 (*isol*, *pmr*, *cmr*)

4,5-Epoxy-6,13-dihydroxy-1(10)-germacren-12,8-olide

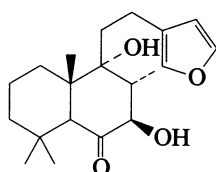
E-10066

C₁₅H₂₂O₅ M 282.336**(1(10)E,4β,5α,6α,8α,11αH)-form**

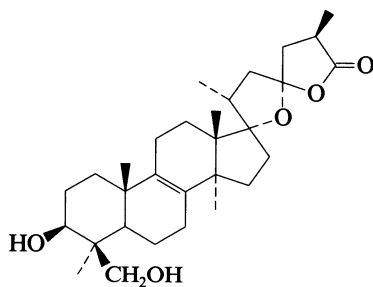
13-Me ether: 4,5-Epoxy-6-hydroxy-13-methoxy-1(10)-germacren-12,8-olide. Heimerlein

C₁₆H₂₄O₅ M 296.363Constit. of *Tanacetum chiliophyllum*.Gören, N. et al, *Phytochemistry*, 1993, **34**, 1071 (isol, pmr)**15,16-Epoxy-7,9-dihydroxy-13(16),14-labdadien-6-one**

E-10067

C₂₀H₃₀O₄ M 334.455**(7β,8βH,9α)-form** [139644-20-5] *Leoheterin*Constit. of *Leonurus heterophyllum*. Powder(EtOAc/hexane). Mp 99-101°. [α]_D²⁵ +47.7° (c, 0.65 in EtOH).Hon, P.M. et al, *Phytochemistry*, 1993, **33**, 639 (isol, pmr, cmr)**17,23-Epoxy-3,29-dihydroxy-9-en-26,23-olide**

E-10068

C₃₀H₄₆O₅ M 486.690**(3β,23S)-form**Aglycone from *Chionodoxa luciliae*.

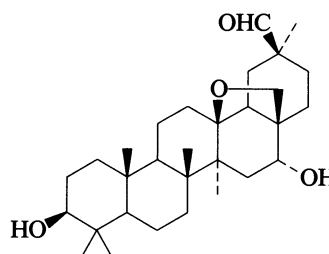
3-O-[α-L-Rhamnopyranosyl-(1→2)-β-D-glucopyranosyl-(1→2)-α-L-arabinopyranosyl-(1→6)-β-D-glucopyranoside]:

C₅₃H₈₄O₂₃ M 1089.233Constit. of *C. luciliae*.

3-O-[α-L-Rhamnopyranosyl-(1→2)-[β-D-galactopyranosyl-(1→3)]-β-D-glucopyranosyl-(1→2)-α-L-arabinopyranosyl-(1→6)-β-D-glucopyranoside]:

C₅₉H₉₄O₂₈ M 1251.375Constit. of *C. luciliae*.Adinolfi, M. et al, *Phytochemistry*, 1993, **34**, 773 (isol, pmr, cmr)**13,28-Epoxy-3,16-dihydroxy-30-oleananal**

E-10069

C₃₀H₄₈O₄ M 472.707**(3β,13β,16α)-form**3-O-[α-L-Rhamnopyranosyl-(1→2)-β-D-glucopyranosyl-(1→2)[β-D-glucopyranosyl-(1→3)]β-D-glucopyranoside]: [112468-35-6]. *Paridiformoside*C₅₄H₈₈O₂₃ M 1105.275Constit. of *Lysimachia paridiformis*.

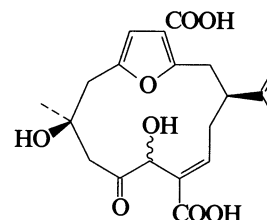
30-Di-Me acetal, 3-O-[α-L-Rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→2)-[β-D-glucopyranosyl-(1→4)]-α-L-arabinopyranoside]:

C₅₅H₉₂O₂₃ M 1121.318Constit. of *Ardisia japonica*. [α]_D²⁵ –10.5° (c, 1 in MeOH).

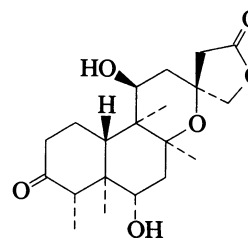
29-Carboxylic acid, 3-O-[α-L-rhamnopyranosyl-(1→4)-β-D-glucopyranosyl-(1→2)-[β-D-glucopyranosyl-(1→4)]-α-L-arabinopyranoside]:

C₅₃H₈₆O₂₃ M 1091.249Constit. of *A. japonica*. [α]_D –2.4° (c, 1 in MeOH).Han, D. et al, *Yaoxue Xuebao*, 1987, **22**, 746; *CA*, **108**, 62305 (*Paridiformoside*)De Tommasi, N. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1669 (isol, pmr, cmr)**3,6-Epoxy-8,11-dihydroxy-10-oxo-3,5,12-cembratriene-18,20-dioic acid**

E-10070

C₂₀H₂₄O₈ M 392.405**(8S,11ξ,12E)-form***Di-Me ester*:C₂₂H₂₈O₈ M 420.458Constit. of *Simularia dissecta*. Needles (MeOH). Mp 170-172°. [α]_D²⁵ –8.7° (c, 0.12 in CH₂Cl₂).Reddy, M.V.R. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 970 (isol, pmr, cmr)**8,13-Epoxy-6,11-dihydroxy-3-oxo-15,16-clerodanolide**

E-10071



$C_{20}H_{30}O_6$ M 366.453
(*ent*-6 β ,8 α ,11 α ,13*R*)-*form*

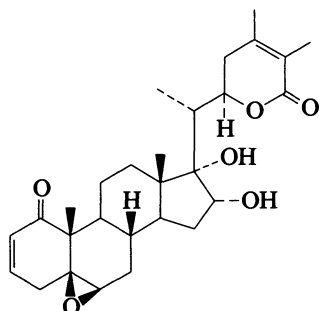
6-Benzoyl, 11-Ac: [121960-93-8]. *Scutellone G*

$C_{29}H_{36}O_8$ M 512.599

Constit. of *Scutellaria rivularis*. Needles (Me₂CO). Mp 262-263°. $[\alpha]_D^{24} + 15.0^\circ$ (c, 1 in CHCl₃).

Lin, Y.-L. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 582 (*isol*, *pmr*, *cmr*)

5,6-Epoxy-16,17-dihydroxy-1-oxowitha-2,24-dienolide E-10072



$C_{28}H_{38}O_6$ M 470.605

(5 β ,6 β ,16 α ,17 α ,22*R*)-*form*

Constit. of *Discopodium penninervium*. Powder. $[\alpha]_D + 48^\circ$ (c, 0.1 in CHCl₃).

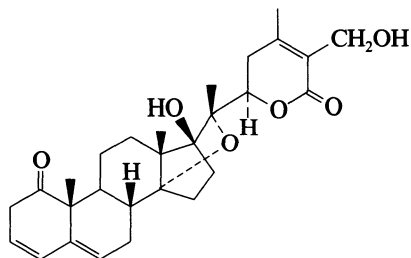
16-Ac:

$C_{30}H_{40}O_7$ M 512.642

Constit. of *D. penninervium*. Powder. $[\alpha]_D^9 + 22^\circ$ (c, 0.1 in CHCl₃).

Harbtemariam, S. *et al*, *Phytochemistry*, 1993, **34**, 807 (*isol*, *pmr*, *cmr*)

14,20-Epoxy-17,27-dihydroxy-1-oxowitha-3,5,24-trienolide E-10073



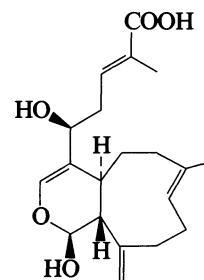
$C_{28}H_{36}O_6$ M 468.589

(14 α ,17 β ,20*S*,22*R*)-*form* [150431-65-5] *Coagulin*

Constit. of *Withania coagulance*. Cryst. $[\alpha]_D^{27} - 11^\circ$ (c, 0.0062 in CHCl₃/MeOH).

Atta-ur-Rahman, *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1000 (*isol*, *pmr*, *cmr*)

17,18-Epoxy-11,18-dihydroxy-1(19),6,10(17),13-xenicatetraen-15-oic acid E-10074



$C_{20}H_{28}O_5$ M 348.438

Di-Ac, Me ester: [147318-39-6]. *Acalycigorgin A*

$C_{25}H_{34}O_7$ M 446.539

Constit. of an *Acalycigorgia* sp. Oil. $[\alpha]_D^{20} + 82.3^\circ$ (c, 0.4 in CHCl₃).

6 α ,7 α -Epoxide, di-Ac, Me ester: [147318-40-9].

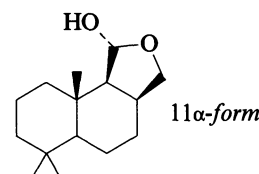
Acalycigorgin B

$C_{25}H_{34}O_8$ M 462.539

Constit. of an *A.* sp. Oil. $[\alpha]_D^{21} + 70.8^\circ$ (c, 0.13 in CHCl₃).

Ochi, M. *et al*, *Heterocycles*, 1993, **36**, 41 (*isol*, *pmr*, *cmr*)

11,12-Epoxy-11-drimanol E-10075



$C_{15}H_{26}O_2$ M 238.369

11 α -*form*

Ac:

$C_{17}H_{28}O_3$ M 280.406

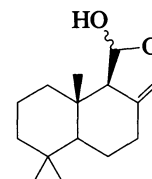
Constit. of *Dysidea* sp. Oil. $[\alpha]_D - 37.8^\circ$ (c, 0.2 in CHCl₃).

11 β -*form*

Constit. of *D.* sp. Oil. $[\alpha]_D - 46.8^\circ$ (c, 0.43 in CHCl₃).

Butler, M.S. *et al*, *Aust. J. Chem.*, 1993, **46**, 1255 (*isol*, *pmr*, *cmr*)

11,12-Epoxy-8(12)-drimen-11-ol E-10076



$C_{15}H_{24}O_2$ M 236.353

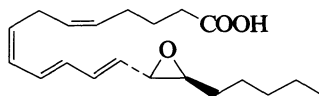
11 ξ -*form*

Constit. of a *Dysidea* sp. Oil.

Butler, M.-S. *et al*, *Aust. J. Chem.*, 1993, **46**, 1255 (*isol*, *pmr*, *cmr*)

14,15-Epoxy-5,8,10,12-eicosatetraenoic acid E-10077

13-(3-Pentylloxiranyl)-5,8,10,12-tridecatetraenoic acid. 14,15-EPETE



$C_{20}H_{30}O_3$ M 318.455

(5Z,8Z,10E,12E,14S,15S)-form [81918-96-9]

14,15-Leukotriene A_4 . 14,15-LTA₄

Intermed. in 15-lipoxygenase-initiated leukotriene biosynth.

Me ester: [75290-58-3].

$C_{21}H_{32}O_3$ M 332.482

$[\alpha]_D^{22} -5.0^\circ$ (c, 0.3 in cyclohexane).

[82263-59-0, 88852-50-0]

Corey, E.J. et al, *J. Am. Chem. Soc.*, 1980, **102**, 6607 (synth)

Attrache, V. et al, *Tetrahedron Lett.*, 1981, **22**, 3443 (synth)

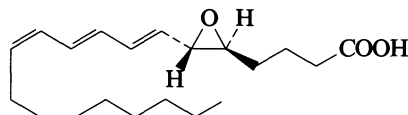
Zamboni, R. et al, *Tetrahedron Lett.*, 1983, **24**, 4899 (synth)

Corey, E.J. et al, *Tetrahedron Lett.*, 1983, **24**, 4917 (synth)

5,6-Epoxy-7,9,11-eicosatrienoic acid E-10078

3-(1,3,5-Tetradecatrienyl)oxiranebutanoic acid. Leukotriene A_3

[87791-73-9]



$C_{20}H_{32}O_3$ M 320.471

Derived from 5,8,11-Eicosatrienoic acid, E-00091 by the 5-lipoxygenase leukotriene pathway. Potent inhibitor of rat and human neutrophil LTA₄ hydrolase.

Me ester: [83851-38-1].

$C_{21}H_{34}O_3$ M 334.498

Ir (film) 1740, 1425 cm^{-1} ; uv 271, 280 (ϵ 50000), 290 nm (EtOH).

Okuyama, S. et al, *Chem. Pharm. Bull.*, 1982, **30**, 2453 (Me ester, synth, ir, uv, pmr)

Spur, B. et al, *Arch. Pharm. (Weinheim, Ger.)*, 1983, **316**, 789 (synth, cmr)

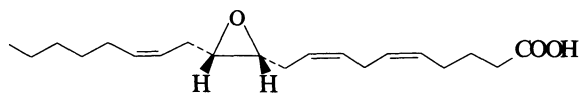
Jakschik, B.A. et al, *J. Biol. Chem.*, 1983, **258**, 12797 (biosynth)

Evans, J.F. et al, *J. Biol. Chem.*, 1985, **260**, 10966 (biochem)

11,12-Epoxy-5,8,14-eicosatrienoic acid E-10079

10-[3-(2-Octenyl)oxiranyl]-5,8-decadienoic acid, 9CI. 11,12-EET

[81276-02-0]



$C_{20}H_{32}O_3$ M 320.471

(5Z,8Z,11R,12S,14Z)-form [123931-38-4]

Arachidonic acid metab.

Me ester: [110901-54-7].

No phys. props. reported.

(5Z,8Z,11S,12R,14Z)-form [123931-40-8]

Arachidonic acid metab.

Me ester: [90080-08-3].

$[\alpha]_D^{24} -2.34^\circ$ (c, 0.66 in $CHCl_3$). No phys. props. reported.

(5Z,8Z,11RS,12SR,14Z)-form

Oil.

Corey, E.J. et al, *J. Am. Chem. Soc.*, 1980, **102**, 1433 (synth)

Falck, J.R. et al, *J. Am. Chem. Soc.*, 1984, **106**, 3334 (biosynth)

Falck, J.R. et al, *Tetrahedron Lett.*, 1984, **25**, 2443 (synth)

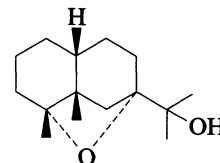
Mosset, P. et al, *Tetrahedron Lett.*, 1986, **27**, 6035 (synth)

Karara, A. et al, *J. Biol. Chem.*, 1989, **264**, 19822; 1991, **266**, 7561 (biosynth)

Capdevila, J.H. et al, *J. Biol. Chem.*, 1990, **265**, 10865 (biosynth)

4,7-Epoxy-11-eremophilanol

E-10080



$C_{15}H_{26}O_2$ M 238.369

(4 α ,7 α ,10 β)-form

Undecanoyl: [149301-58-6].

$C_{26}H_{46}O_3$ M 406.648

Constit. of *Ligularia veitchiana*. Powder ($CHCl_3$). Mp

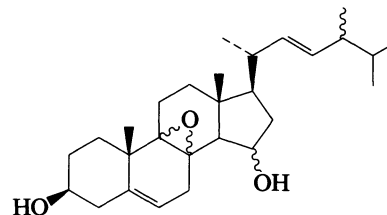
84°. $[\alpha]_D^{25} -23.0^\circ$ (c, 0.5 in $CHCl_3$).

Jia, Z. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 494 (isol, pmr, cmr)

8,9-Epoxyergosta-5,22-diene-3,15-diol

E-10081

8,9-Epoxy-24-methylcholesta-5,22-diene-3,15-diol



$C_{28}H_{44}O_3$ M 428.654

(3 β ,8 ξ ,9 ξ ,15 ξ ,24 ξ)-form [133587-90-3]

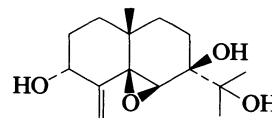
Constit. of *Ganoderma lucidum*. Powder. Mp 228-230°.

Chiang, H.-C. et al, *J. Chin. Chem. Soc. (Peking)*, 1991, **38**, 71

(isol, pmr, cmr)

5,6-Epoxy-4(15)-eudesmene-3,7,11-triol

E-10082



$C_{15}H_{24}O_4$ M 268.352

(3 α ,5 β ,6 β ,7 β)-form

11-O-(3-Acetyl-2,4-diangeloyl- β -D-fucopyranoside):

$C_{33}H_{48}O_{11}$ M 620.736

Constit. of *Calendula arvensis*.

11-O-[2,4-Diangeloyl-3-(2-methylbutanoyl)- β -D-fucopyranoside]:

$C_{36}H_{54}O_{11}$ M 662.816

Constit. of *C. arvensis*.

11-O-[2,4-Diangeloyl-3-(2-methylpropanoyl)- β -D-fucopyranoside]:

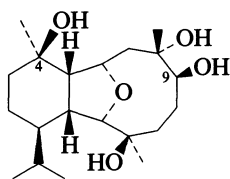
$C_{35}H_{52}O_{11}$ M 648.789

Constit. of *C. arvensis*.

Ahmed, A.A. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1821 (isol, pmr, cmr)

6,13-Epoxy-4,8,9,12-eunicellanetetrol

E-10083

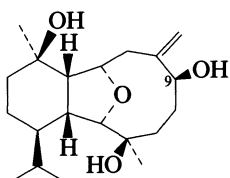
C₂₀H₃₆O₅ M 356.501

(4β,6α,8α,9β,12β,13α)-form

9-Me ether, 12-Ac: [151484-82-1]. *Palmonine C*C₂₃H₄₀O₆ M 412.565Constit. of *Eunicella verrucosa*. Oil.9-Me ether, 4,12-di-Ac: [151484-80-9]. *Palmonine A*C₂₅H₄₂O₇ M 454.603Constit. of *E. verrucosa*. Oil. [α]_D +43.4° (c, 1.04 in CHCl₃).Ortega, M.J. *et al*, *Tetrahedron*, 1993, **49**, 7823 (*isol*, *pmr*, *cmr*)

6,13-Epoxy-8(19)-eunicellene-4,9,12-triol

E-10084

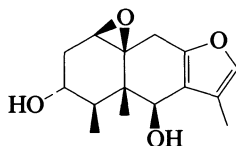
C₂₀H₃₄O₄ M 338.486

(4β,6α,9β,12β,13α)-form

Tri-Ac: [151484-81-0]. *Palmonine B*C₂₆H₄₀O₇ M 464.598Constit. of *Eunicella verrucosa*. Oil. [α]_D -35.8° (c, 1 in CHCl₃).9-Ketone, di-Ac: [151484-83-2]. *Palmonine D*C₂₄H₃₆O₆ M 420.545Constit. of *E. verrucosa*. Oil. [α]_D +7.3° (c, 0.7 in CHCl₃).Ortega, M.J. *et al*, *Tetrahedron*, 1993, **49**, 7823 (*isol*, *pmr*, *cmr*)

1,10-Epoxyfuranoremorphilane-3,6-diol

E-10085

C₁₅H₂₀O₄ M 264.321

(1β,3α,6β,10β)-form

3-Angeloyl: [63366-05-2].

C₂₀H₂₆O₅ M 346.422Constit. of *Ligularia vorobierii*. Oil.

3-Angeloyl, 6-Ac: [63366-03-0].

C₂₂H₂₈O₆ M 388.460Constit. of *L. vorobierii*. Oil. [α]_D²⁴ -19° (c, 1 in CHCl₃).

6-Angeloyl: [64234-09-9].

C₂₀H₂₆O₅ M 346.422Constit. of *Euryops* spp. Oil.

6-(3-Methylpentanoyl): [68773-70-6].

C₂₁H₃₀O₅ M 362.465Constit. of *E. spp.* Oil.

3-(2-Methyl-2-propenoyl): [63366-04-1].

C₁₉H₂₄O₅ M 332.396Constit. of *L. vorobierii*. Oil. [α]_D²⁴ -4° (c, 0.02 in CHCl₃).

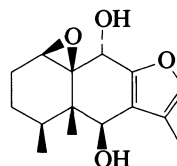
3-(2-Methyl-2-propenoyl), 6-Ac: [63366-02-9].

C₂₁H₂₆O₆ M 374.433Constit. of *L. vorobierii*. Oil.Bohlmann, F. *et al*, *Chem. Ber.*, 1977, **110**, 1759 (*isol*, *pmr*)Bohlmann, F. *et al*, *Phytochemistry*, 1978, **17**, 1135 (*isol*, *pmr*)

1,10-Epoxyfuranoremorphilane-6,9-diol

E-10086

Updated Entry replacing E-00685



(1β,6β,9α,10β)-form

C₁₅H₂₀O₄ M 264.321

(1β,6β,9α,10β)-form

6-Angeloyl:

C₂₀H₂₆O₅ M 346.422Constit. of *Euryops* spp. Oil.

6-(3-Methyl-2-butenoyl):

C₂₀H₂₆O₅ M 346.422Constit. of *E. spp.* Oil.

6-Tigloyl:

C₂₀H₂₆O₅ M 346.422Constit. of *E. spp.* Oil.

6-(3-Methyl-2-pentenoyl):

C₂₁H₂₈O₅ M 360.449Constit. of *E. spp.* Oil.

6-(2-Methylpropenoyl):

C₁₉H₂₄O₅ M 332.396Constit. of *E. spp.* Oil.

6-(3-Methylbutanoyl):

C₂₀H₂₈O₅ M 348.438Constit. of *E. spp.* Oil.

6-(2-Methylbutanoyl):

C₂₀H₂₈O₅ M 348.438Constit. of *E. spp.* Oil.

(1β,6β,9β,10β)-form

9-(2-Methylpropanoyl): [135417-17-3].

C₁₉H₂₆O₅ M 334.411Constit. of *Senecio behnii*. Gum.

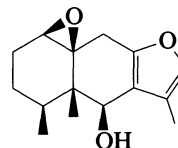
Diketone: 1,10-Epoxyfuranoremorphilane-6,9-dione

C₁₅H₁₆O₄ M 260.289Constit. of *S. smithii*. Cryst. (Et₂O/pet. ether). Mp 104°.[α]_D²⁴ -26.7° (c, 0.12 in CHCl₃).Bohlmann, F. *et al*, *Chem. Ber.*, 1978, **111**, 1135 (*isol*, *pmr*)Bohlmann, F. *et al*, *Phytochemistry*, 1981, **20**, 2389 (*isol*, *deriv*)Yamakawa, K. *et al*, *Chem. Pharm. Bull.*, 1984, **32**, 3396 (*synth*)Dupré, S. *et al*, *Phytochemistry*, 1991, **30**, 1211 (*isol*, *pmr*)

1,10-Epoxyfuranoremorphilane-6-ol

E-10087

Updated Entry replacing E-00687

C₁₅H₂₀O₃ M 248.321

(1β,6β,10β)-form [41702-76-5]

Constit. of *Ligularia* spp. Oil. [α]_D -45° (c, 0.11 in EtOH).

O-(2-Methylpropenoyl): [55050-49-2]. 1 β ,10 β -Epoxy-6 β -(2-methylacryloyloxy)furanoeremophilane

C₁₉H₂₄O₄ M 316.396

Constit. of *Senecio rigidus*. Oil.

O-(3-Methyl-2-butenoyl): [55050-50-5]. 1 β ,10 β -Epoxy-6 β -senecionylxyfuranoeremophilane

C₂₀H₂₆O₄ M 330.423

Constit. of *S. rigidus*. Oil.

O-(4-Hydroxy-2-methyl-2-butenoyl): [63366-01-8]. 1,10 β -Epoxy-6 β -(γ -hydroxyangeloyloxy)furanoelemophilane

Constit. of *Ligularia vorobierii*.

O-(2-Methylbutanoyl): 1,10-Epoxy-6-(2-methylbutanoyloxy)furanoeremophilane

C₂₀H₂₈O₄ M 332.439

Constit. of *S. doria*.

6-Angeloyl: [41929-09-3]. **Senemorin**

C₂₀H₂₆O₄ M 330.423

Constit. of *S. spp.* Oil. [α]_D²⁵ – 70.2° (c, 0.2 in CHCl₃).

6-Tigloyl:

C₂₀H₂₆O₄ M 330.423

Constit. of *E. spp.* Oil.

(1 α ,6 β ,10 α)-form

6-Ac: [40072-65-9].

C₁₇H₂₂O₄ M 290.358

Constit. of *E. spp.* Oil.

6-Angeloyl: [40072-64-8].

C₂₀H₂₆O₄ M 330.423

Constit. of *E. spp.* Oil. [α]_D²⁴ – 17.5° (c, 3.4 in CHCl₃).

Sato, T. *et al.*, *Chem. Lett.*, 1972, 637 (*isol*)

Novotny, L. *et al.*, *Collect. Czech. Chem. Commun.*, 1973, **38**, 739 (*isol, struct*)

Bohlmann, F. *et al.*, *Chem. Ber.*, 1974, **107**, 2912; 1976, **109**, 819; 1977, **110**, 1759; 1978, **17**, 1135 (*isol*)

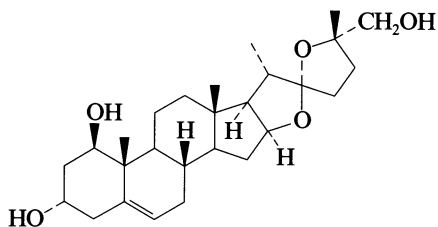
Sato, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1975, **48**, 112 (*isol, nmr*)

Bohlmann, F. *et al.*, *Phytochemistry*, 1978, **17**, 1135 (*isol*)

Urones, J.G. *et al.*, *An. Quim., Ser. C*, 1987, **83**, 358 (*deriv*)

22,25-Epoxyfurost-5-ene-1,3,26-triol

E-10088



C₂₇H₄₂O₅ M 446.626

(1 β ,3 α ,22S,25S)-form [91652-21-0] **Tupisgenin**

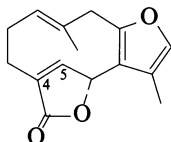
Constit. of *Tupistra aurarnstiaca*.

Yang, R. *et al.*, *CA*, 1984, **101**, 107361z.

8,12-Epoxy-1(10),4,7,11-germacratetraen-15,6-olide

E-10089

Updated Entry replacing E-00708



(1(10)E,6 α)-form

C₁₅H₁₆O₃ M 244.290

(1(10)E,6 α)-form [728-61-0] **Linderalactone**

Constit. of *Lindera strychnifolia*. Cryst. (MeOH). Mp 140°. [α]_D²⁶ + 102° (c, 1 in dioxan).

4 β ,5 β -Epoxide: [13476-25-0]. 4,5;8,12-Diepoxy-1(10),7,11-germacratrien-15,6-olide. **Linderane**

C₁₅H₁₆O₄ M 260.289

Constit. of *L. strychnifolia* and *Cryptocarya densiflora*.

Cryst. (Me₂CO). Mp 190-191° dec. [α]_D²⁴ + 180.3° (c, 1 in dioxan).

1 α ,10 α :4 β ,5 β -Diepoxy: 1,10:4,5:8,12-Trieпоxy-7,11-germacradien-15,6-olide. **Pseudolinderadine**

Constit. of *C. densiflora*.

1 β ,10 β :4 β ,5 β -Diepoxy: [20082-46-6]. **Linderadine**

C₁₅H₁₆O₅ M 276.288

Constit. of *Neolitsea aciculata*. Cryst. Mp 130-132°. [α]_D²⁵ – 68.7° (c, 0.3 in dioxan).

(1(10)Z,6 α)-form [26379-18-0] **Neolinderalactone**

Constit. of *L. strychnifolia*. Prisms (MeOH). Mp 116-118°. [α]_D²⁵ + 100° (c, 1.09 in EtOH).

(1(10)E,6 β)-form

1 α ,10 α :4 α ,5 α -Diepoxy: (+)-**Linderadine**

C₁₅H₁₆O₅ M 276.288

Constit. of *N. villosa*. Cryst. (EtOAc). Mp 176-178°. [α]_D + 68.3° (c, 0.38 in CHCl₃).

Joshi, B.S. *et al.*, *Tetrahedron*, 1967, **23**, 261 (*struct*)

Takeda, K. *et al.*, *J. Chem. Soc. C*, 1969, 1491, 2786 (*isol, struct, abs config*)

Takeda, K. *et al.*, *J. Chem. Soc. C*, 1970, 973 ((-)-**Linderadine**)

Tori, K. *et al.*, *Tetrahedron Lett.*, 1975, 4583 (*cmr*)

Gopalan, A. *et al.*, *J. Org. Chem.*, 1984, **49**, 2317 (*synth*)

Achmad, S.A. *et al.*, *Aust. J. Chem.*, 1992, 445 (*isol, cryst struct*)

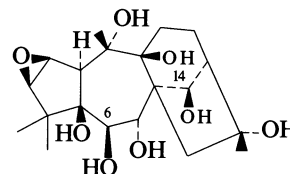
Okada, K. *et al.*, *Acta Crystallogr., Sect. C*, 1993, **49**, 341 (*cryst struct*)

Li, W.-S. *et al.*, *Phytochemistry*, 1993, **32**, 1503 ((+)-**Linderadine, cryst struct**)

2,3-Epoxy-5,6,7,9,10,14,16-grayanotoxaneheptol

E-10090

Updated Entry replacing E-00719



C₂₀H₃₂O₈ M 400.468

(1 α ,2 β ,3 β ,5 β ,6 β ,7 α ,9 β ,10 α ,14 β ,16 α)-form [34206-60-5]

Pieristoxin G

Constit. of *Pieris japonica*. Cryst. (MeOH/EtOAc).

▷ PB9189700.

6-Ac: [34183-49-8]. **Pieristoxin J**

C₂₂H₃₂O₈ M 424.490

Constit. of *P. japonica*. Cryst. Mp 258-260°.

14-Propanoyl, 6-Ac: [34183-45-4]. **Asebotoxin VII**

C₂₅H₃₈O₁₀ M 498.569

Isol. from flowers of *P. japonica*.

6-(7)-Propanoyl, 7(6)-Ac: [76024-13-0]. **Pieristoxin K**

C₂₅H₃₈O₁₀ M 498.569

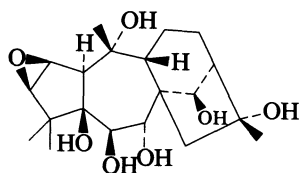
Constit. of *P. japonica*. Cryst. Mp 278-281°.

Fukuyama, K. *et al.*, *Chem. Pharm. Bull.*, 1971, **19**, 1980; 1976, **24**, 2775.

Katai, M. *et al.*, *Chem. Pharm. Bull.*, 1980, **28**, 3124 (*Pieristoxins J and K*)

2,3-Epoxy-5,6,7,10,14,16-grayanotoxanehexol

E-10091



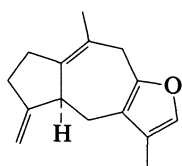
$C_{20}H_{32}O_7$ M 384.469
(1 α ,2 β ,3 β ,5 β ,6 β ,7 α ,10 α ,14 β ,16 α)-form [75899-53-5]
Pieristoxin H

Constit. of *Pieris japonica*. Cryst. Mp 242-245°.

Katai, M. *et al*, *Chem. Pharm. Bull.*, 1980, **28**, 3124 (*isol, ir, pmr, ms*)

8,12-Epoxy-1(10),4(15),7,11-guaiatetraene

E-10092



$C_{15}H_{18}O$ M 214.307
5 α -form

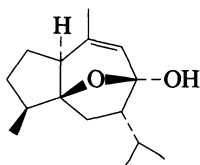
Echinofuran†

Constit. of *Echinogorgia praelonga*. Oil. $[\alpha]_D^{20}$ -91° (c, 0.138 in $CHCl_3$). Not registered in CA (confused with the other Echinofuran see Echinofuran, E-00026).

Tanaka, J.-I. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1522 (*isol, pmr, cmr*)

5,8-Epoxy-9-guaien-8-ol

E-10093



$C_{15}H_{24}O_2$ M 236.353
(1 α ,4 β ,5 β ,7 β H,8 α OH)-form

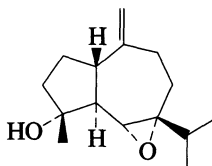
Isocurcumol

Constit. of *Litsea cassiaefolia*. Cryst. (hexane). Mp 106-107°. $[\alpha]_D$ -86° (c, 0.5 in $CHCl_3$).

Hakim, E.H. *et al*, *Aust. J. Chem.*, 1993, **46**, 1355 (*isol, pmr, cmr, cryst struct*)

6,7-Epoxy-10(14)-guaien-4-ol

E-10094



$C_{15}H_{24}O_2$ M 236.353
(1 β ,4 α ,5 α ,6 α ,7 α)-form [147511-74-8] *Orientalol C*

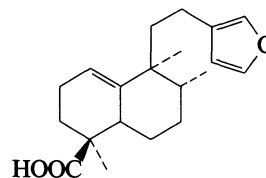
Constit. of *Alisma orientale*. Oil. $[\alpha]_D^{20}$ +2.5° (c, 0.56 in MeOH).

[147511-75-9]

Yoshikawa, M. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2582 (*isol, pmr, cmr*)

15,16-Epoxy-1(10),13(16),14-halimatrien-19-oic acid

E-10095



$C_{20}H_{28}O_3$ M 316.439
ent-form

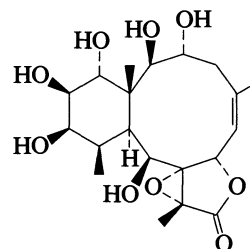
Isol. (as Me ester) from seed-pod resin of *Hymenaea courbaril*.

[52591-99-8]

Khoo, S.F. *et al*, *Tetrahedron*, 1973, **29**, 3379 (*isol*)

8,17-Epoxy-2,3,9,12,13,14-hexahydroxy-11-briaren-18,7-olide

E-10096



$C_{20}H_{30}O_9$ M 414.452
(2 β ,3 α ,5Z,7 α ,8 α ,9 β ,12 β ,13 β ,15 α ,17 α)-form
2,3,9,14-Tetra-Ac: *Stecholide N*

$C_{28}H_{38}O_{13}$ M 582.600

Constit. of *Solenopodium excavatum*. Glass. $[\alpha]_D^{20}$ -53.0° (c, 0.2 in $CHCl_3$).

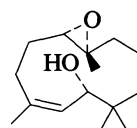
Schmitz, F.J. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1339 (*isol, pmr, cmr*)

6,7-Epoxy-2-humulene-1-ol

E-10097

Updated Entry replacing E-00752

4,7,7,11-Tetramethyl-12-oxabicyclo[9.1.0]dodec-4-en-6-ol, 9CI



Absolute configuration

$C_{15}H_{26}O_2$ M 238.369
(1S,2Z,6S,7S)-form [87989-23-9]

Constit. of fruit of *Torilis scabra*. Cryst. Mp 125-130°. $[\alpha]_D$ +30.9° (c, 0.22 in $CHCl_3$).

Ac: [87989-22-8]. 15-Acetoxy-6S,7S-epoxy-2Z-humulene

$C_{17}H_{28}O_3$ M 280.406

Constit. of *T. scabra*. Cryst. Mp 125-130°. $[\alpha]_D$ +21.4° (c, 0.36 in $CHCl_3$).

(1S,2Z,6R,7R)-form

Ac: From *T. scabra*. Oil. $[\alpha]_D$ -175.5° (c, 0.33 in $CHCl_3$).

(1S,2E,6R,7R)-form

(4-Methoxybenzoyl):

$C_{23}H_{32}O_4$ M 372.503

Constit. of *Ferula linkii*. Oil.

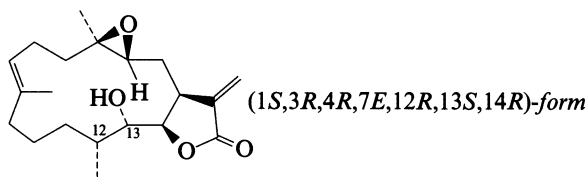
Itokawa, H. *et al*, *Chem. Lett.*, 1983, 1581 (*cryst struct*)

Itokawa, H. *et al*, *Chem. Pharm. Bull.*, 1985, **33**, 2204 (*cryst struct, abs config*)
González, A.G. *et al*, *Phytochemistry*, 1993, **33**, 863 (*deriv, pmr, cmr*)

3,4-Epoxy-13-hydroxy-7,15(17)- cembradien-16,14-olide

E-10098

Updated Entry replacing E-00767

C₂₀H₃₀O₄ M 334.455(1S,3R,4R,7E,12R,13S,14R)-form
12,13-BisepieupalmerinConstit. of *Eunicea succinea*. Cryst. (C₆H₆). Mp 144-145°. [α]_D –158.8° (c, 1.57 in CHCl₃).

Ac: 12,13-Bisepieupalmerin acetate

C₂₂H₃₂O₅ M 376.492Constit. of *E. succinea*. Oil. [α]_D²⁷ –170° (c, 0.4 in CHCl₃).(1S,3R,4R,7E,12S,13R,14R)-form [52239-68-6] *Eupalmerin*
Metab. of *E. mammosa*. Cryst. Mp 148-149°.Ac: [37299-08-4]. *Eupalmerin acetate*C₂₂H₃₂O₅ M 376.492Constit. of *E. palmari*.13-Ketone: 3,4-Epoxy-13-oxo-7,15(17)-cembradien-16,4-olide. *Succinolide*C₂₀H₂₈O₄ M 332.439Constit. of *E. succinea*. Oil. [α]_D²⁵ –7.5° (c, 0.8 in CHCl₃).

(1S,3R,4R,7E,12R,13R,14R)-form

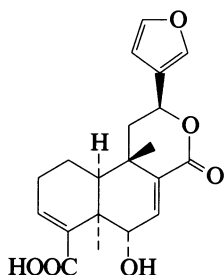
Ac: 12-Epieupalmerin acetate

C₂₂H₃₂O₅ M 376.492Constit. of *E. succinea*. Oil. [α]_D²⁵ +17.8° (c, 0.9 in CHCl₃).

Ealick, S.E. *et al*, *Acta Crystallogr., Sect. B*, 1975, **31**, 1618 (*struct*)
Gopichand, Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 607 (*isol*)
Fontán, L.A. *et al*, *J. Org. Chem.*, 1990, **55**, 4956 (*pmr, cmr*)
Fontán, L.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 298 (*isol*)
Rodríguez, A.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 564 (*isol, pmr, cmr*)

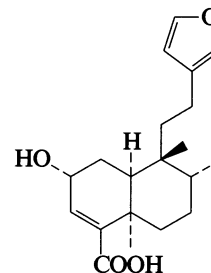
15,16-Epoxy-6-hydroxy-3,7-13(16),14- clerodatetraen-17,12-olid-18-oic acid

E-10099

C₂₀H₂₂O₆ M 358.390(5 α ,6 α ,12 α H)-form6-O- β -D-Glucopyranoside, Me ester: [151200-50-9].*Borapetoside F*C₂₇H₃₄O₁₁ M 534.559Constit. of *Tinospora tuberculata*. Powder. [α]_D²⁴ +61.7° (c, 0.94 in MeOH).Fukuda, N. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 491 (*isol, pmr, cmr*)

15,16-Epoxy-2-hydroxy-3,13(16),14- clerodatrien-18-oic acid

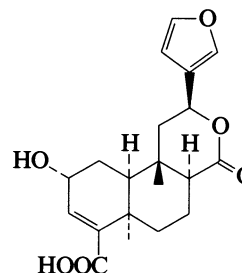
E-10100

C₂₀H₂₈O₄ M 332.439(2 α ,5 α ,8 β H)-formMe ester: [148717-64-0]. *Tinotufolin A*C₂₁H₃₀O₄ M 346.466Constit. of *Tinospora tuberculata*. Oil. [α]_D¹⁸ +1.2° (c, 0.86 in CHCl₃).Fukuda, N. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 325 (*isol, pmr, cmr*)

15,16-Epoxy-2-hydroxy-3,13(16),14- clerodatrien-17,12-olid-18-oic acid

E-10101

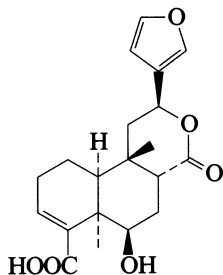
Updated Entry replacing E-00802

C₂₀H₂₄O₆ M 360.406(2 α ,5 α ,12 α H)-formMe ester: [96552-83-9]. *Tinophyllo*C₂₁H₂₆O₆ M 374.433Constit. of *Arcangelisia flava*. Prisms (MeOH). Mp 229-231°. [α]_D²⁰ –19.3° (c, 0.5 in Py).O- β -D-Glucoside, Me ester: [102907-33-5]. *Tinophylloside*C₂₇H₃₆O₁₁ M 536.575Constit. of *Fibraurea tinctoria*. Powder (H₂O). Mp 155-158°. [α]_D²¹ –19.2° (c, 0.25 in MeOH).2-Ketone, Me ester: [2571-62-2]. *Tinophyllone*C₂₁H₂₄O₆ M 372.417Isol. from root and bark of *Tinomisium philippinense*. Cryst. Mp 175°. [α]_D²⁹ –98° (CHCl₃).(2 β ,5 α ,12 α H)-form2-O- β -D-Glucopyranoside, Me ester: *Epitinophylloside*C₂₇H₃₆O₁₁ M 536.575Cryst. Mp 142°. [α]_D –93° (c, 1.9 in MeOH).Gambolvej, S.K. *et al*, *J. Philipp. Pharm. Assoc.*, 1958, **45**, 303 (*isol*)Aguilar-Santos, G., *Chem. Ind. (London)*, 1965, 1074 (*uw, ir, pmr, ms*)Brehm, L. *et al*, *J. Chem. Soc. C*, 1971, 2529 (*cryst struct*)Kunii, T. *et al*, *Chem. Pharm. Bull.*, 1985, **33**, 479 (*isol, struct*)

Itokawa, H. *et al*, *Phytochemistry*, 1986, **25**, 905 (*Tinophylloside*)
 Song, C.Q. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 185
 (*Epitinophylloside*)

15,16-Epoxy-6-hydroxy-3,13(16),14-clerodatrien-17,12-olid-18-oic acid

E-10102



$C_{20}H_{24}O_6$ M 360.406

(*5\alpha,6\beta,8\beta H,12\alpha H*)-form

6-O- β -D-Glucopyranoside, *Me ester*: [145459-46-7].

Borapetoside C, *Tinocrisposide*

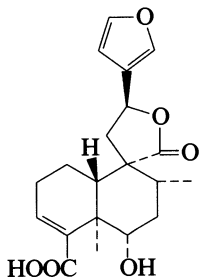
$C_{27}H_{36}O_{11}$ M 536.575

Constit. of *Tinospora tuberculata* and *T. crispa*. Needles (MeOH aq.). Mp 121-122°, Mp 208°. $[\alpha]_D^{24}$ -21.8° (c, 2.09 in MeOH). Borapetoside C and Tinocrisposide not compared. The higher Mp refers to Tinocrisposide.

Pachaly, P. *et al*, *Arch. Pharm. (Weinheim, Ger.)*, 1992, **325**, 705.
 Fukuda, N. *et al*, *Justus Liebig's Ann. Chem.*, 1993, 491 (*isol, pmr, cmr*)

15,16-Epoxy-6-hydroxy-3,13(16),14-clerodatrien-20,12-olid-18-oic acid

E-10103



$C_{20}H_{24}O_6$ M 360.406

(*ent-6\beta,12\beta H*)-form

6-Ac, *Me ester*: **Koberin B**

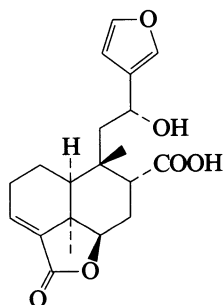
$C_{23}H_{28}O_7$ M 416.470

Constit. of *Croton lechleri*.

Cai, Y. *et al*, *Phytochemistry*, 1993, **34**, 265 (*isol, pmr, cmr*)

15,16-Epoxy-12-hydroxy-3,13(16),14-clerodatrien-18,6-olid-17-oic acid

E-10104



$C_{20}H_{24}O_6$ M 360.406

(*5\alpha,6\beta,8\beta H,12R*)-form

12-O- β -D-Glucopyranoside, *Me ester*: [151200-49-6].

Borapetoside E

$C_{27}H_{36}O_{11}$ M 536.575

Constit. of *Tinospora tuberculata*. Powder. $[\alpha]_D^{25}$ -80.4° (c, 1.12 in MeOH).

12-O- $[\beta$ -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], *Me ester*: [151200-48-5]. **Borapetoside D**

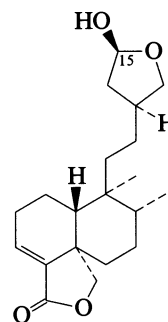
$C_{33}H_{46}O_{16}$ M 698.717

Constit. of *T. tuberculata*. Powder. $[\alpha]_D^{25}$ -54.7° (c, 1.06 in MeOH).

Fukuda, N. *et al*, *Justus Liebig's Ann. Chem.*, 1993, 491 (*isol, pmr, cmr*)

15,16-Epoxy-15-hydroxy-3-cleroden-18,19-olide

E-10105



(*ent-13R,15R*)-form

$C_{20}H_{30}O_4$ M 334.455

(*ent-13R,15R*)-form

Me ether: 15,16-Epoxy-15-methoxy-3-cleroden-18,19-olide

$C_{21}H_{32}O_4$ M 348.481

Constit. of *Baccharis trinervis*. Oil. $[\alpha]_D$ -48.9° (c, 0.56 in $CHCl_3$).

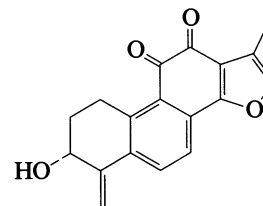
(*ent-13R,15S*)-form

Me ether: Constit. of *B. trinervis*. Oil.

Kuroyanagi, M. *et al*, *Phytochemistry*, 1993, **34**, 1377 (*isol, pmr, cmr*)

14,16-Epoxy-3-hydroxy-19,20-dinor-4(18),5,7,9,13,15-abietahexaene-11,12-dione

E-10106



$C_{18}H_{14}O_4$ M 294.306

3 α -form [83145-47-5]

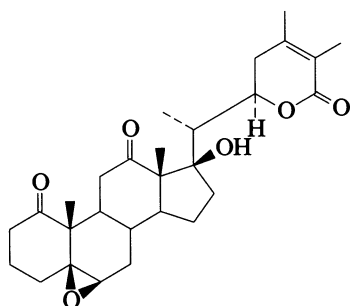
3-Hydroxymethylenetanshinquinone

Constit. of *Salvia miltiorrhiza*. Red needles. Mp 192-194°.

Okamura, N. *et al*, *Planta Med.*, 1992, **58**, 571 (*isol, pmr, cmr*)

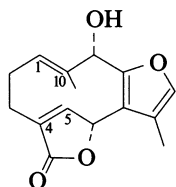
5,6-Epoxy-17-hydroxy-1,12-dioxowith-24-enolide

E-10107

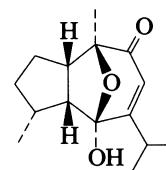
C₂₈H₃₈O₆ M 470.605**(5β,6β,17α,22R)-form****Jaboromagellonine**Constit. of *Jaborosa magellanica*. Cryst. (MeOH). Mp 216°. [α]_D –21.2° (c, 4.1 in MeOH).Cárcamo, C. *et al*, *Heterocycles*, 1993, **36**, 1771 (*isol*, *pmr*, *cmr*)**8,12-Epoxy-9-hydroxy-1(10),4,7,11-germacratetraen-15,6-olide**

E-10108

Updated Entry replacing E-00842

C₁₅H₁₆O₄ M 260.289**(1(10)E,6α,9α)-form**Ac: [20149-38-6]. **Litsealactone**C₁₇H₁₈O₅ M 302.326Constit. of *Neolitsea aciculata*. Cryst. (CH₂Cl₂/Et₂O).Mp 157-159°. [α]_D²⁰ +57.5° (c, 0.8 in dioxan).4β,5β-Epoxyde, Ac: [20149-39-7]. **Litseaculane**C₁₇H₁₈O₆ M 318.326Constit. of *N. aciculata*. Cryst. Mp 145-146°. [α]_D²⁴ +76.1° (c, 0.4 in dioxan).**(1(10)E,6α,9β)-form**1β,10α-Epoxyde, Ac: [13761-05-2]. **Zeylanicine**C₁₇H₁₈O₆ M 318.326Isol. from roots of *N. zeylanica*. Cryst. (CH₂Cl₂/Et₂O).[α]_D²⁶ –153° (c, 3.13 in dioxan).1β,4β:5β,10α-Diepoxyde: **Deacetylzeylanidine**C₁₅H₁₆O₆ M 292.288Constit. of *N. zeylanica*. Cryst. Mp 207-209°. [α]_D +62° (c, 0.36 in CHCl₃).1β,4β:5β,10α-Diepoxyde, Ac: [13761-06-3]. **Zeylanidine**C₁₇H₁₈O₇ M 334.325Constit. of *N. zeylanica*. Cryst. (CH₂Cl₂/Et₂O). Mp 220°. [α]_D²⁶ –174° (c, 3.2 in dioxan).Joshi, B.J. *et al*, *Tetrahedron*, 1967, **23**, 261, 273 (*Zeylanicine*, *Zeylanidine*)Takeda, K. *et al*, *J. Chem. Soc. C*, 1970, 973 (*Litsealactone*, *Litseaculane*)Das, K.G. *et al*, *Org. Mass Spectrom.*, 1971, **5**, 187 (*ms*)Li, W.-S. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 1581 (*isol*, *pmr*, *cmr*, *struct*)**6,10-Epoxy-6-hydroxy-7-guaien-9-one**

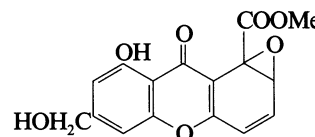
E-10109

C₁₅H₂₂O₃ M 250.337**(1β,4α,5β,6β,10β)-form** [103425-23-6] **Alpinenone**Constit. of *Alpinia japonica* and *A. intermedia*. Needles.Mp 140-142°. [α]_D +322.7° (c, 0.3 in CHCl₃).Itokawa, H. *et al*, *Chem. Pharm. Bull.*, 1987, **35**, 2849, 2860 (*isol*, *pmr*, *cmr*, *cryst struct*)**1,2-Epoxy-8-hydroxy-6-(hydroxymethyl)-1-methoxycarbonylxanثone**

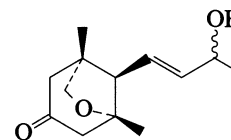
E-10110

MS 347. Vasodilator 347

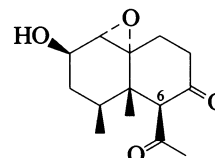
[144678-18-2]

C₁₆H₁₂O₇ M 316.267Prod. by *Aspergillus* SPC-16640. Vasodilator. Mp 253-256°.Japan. Pat., 92 197 191, (1992); *CA*, **117**, 249971 (*isol*, *props*)**5,11-Epoxy-9-hydroxy-7-megastigmen-3-one**

E-10111

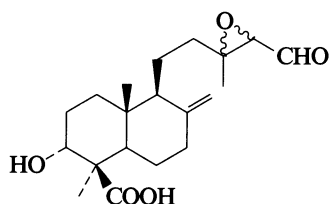
C₁₃H₂₀O₃ M 224.299Constit. of *Centaurea salmantica*. Gum.Fernández, I. *et al*, *Phytochemistry*, 1993, **34**, 733 (*isol*, *pmr*, *cmr*)**1,10-Epoxy-2-hydroxy-13-nor-7,11-nardosinanedione**

E-10112

**(1α,2β,6αH,10α)-form**C₁₄H₂₀O₄ M 252.310**(1α,2β,6αH,10α)-form** [148410-01-9]Constit. of *Lemnalia africana*. Yellow oil. [α]_D –78° (c, 0.3 in CHCl₃).**(1α,2β,6βH,10α)-form** [148410-02-0]Constit. of *L. africana*. Yellow oil. [α]_D –307° (c, 1 in CHCl₃).Jurek, Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 508 (*isol*, *pmr*, *cmr*)

13,14-Epoxy-3-hydroxy-15-oxo-8(17)-labden-19-oic acid

E-10113



$C_{20}H_{30}O_5$ M 350.454
(3 α ,13 ξ ,14 ξ)-form

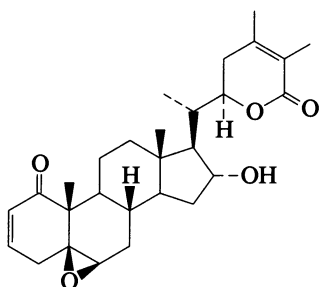
Ac:

$C_{22}H_{32}O_6$ M 392.491
Constit. of *Juniperus thurifera*.

San Feliciano, A. *et al*, *Phytochemistry*, 1993, 33, 1165 (isol, pmr, cmr)

5,6-Epoxy-16-hydroxy-1-oxowitha-2,24-dienolide

E-10114



$C_{28}H_{38}O_5$ M 454.605
(5 β ,6 β ,16 α ,22R)-form

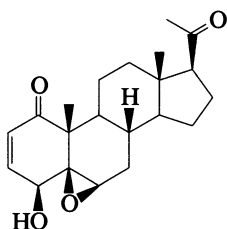
Ac:

$C_{30}H_{40}O_6$ M 496.642
Constit. of *Discopodium penninervium*. Powder. $[\alpha]_D$
+30° (c, 0.1 in $CHCl_3$).

Harbtemariam, S. *et al*, *Phytochemistry*, 1993, 34, 807 (isol, pmr, cmr)

5,6-Epoxy-4-hydroxypregn-2-ene-1,20-dione

E-10115



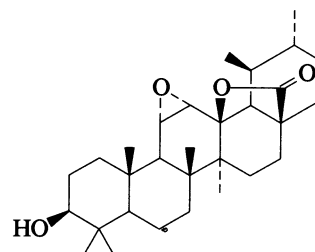
$C_{21}H_{28}O_4$ M 344.450
(4 β ,5 β ,6 β)-form

Constit. of *Physalis viscosa*. Cryst. (EtOAc/hexane). Mp 204-205°.

Silva, G.L. *et al*, *Phytochemistry*, 1993, 34, 871 (isol, pmr, cmr)

11,12-Epoxy-3-hydroxy-28,13-ursanolide

E-10116



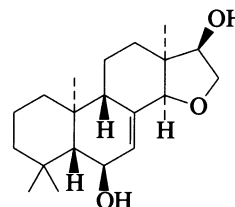
$C_{30}H_{46}O_4$ M 470.691
(3 β ,11 α ,12 α ,13 β)-form [74048-34-3]

Constit. of *Thevetia neriiifolia*. Plates (MeOH). Mp 283-284°. $[\alpha]_D$ +49.4° ($CHCl_3$).

Begum, S. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, 56, 613 (isol, pmr, cmr, ms)

14,16-Epoxy-7-isopimarene-6,15-diol

E-10117



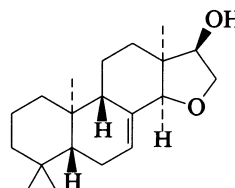
$C_{20}H_{32}O_3$ M 320.471
(ent-6 α ,14 α ,15 α)-form [145701-03-7]

Constit. of *Calibrachoa parviflora*. Cryst. (MeCN aq.). Mp 207-210°. $[\alpha]_D$ -16° (c, 1 in EtOH).

Elliger, C.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, 55, 1477 (isol, pmr, cmr, cryst struct)

14,16-Epoxy-7-isopimaren-15-ol

E-10118



$C_{20}H_{32}O_2$ M 304.472
(ent-14 α ,15 α)-form [145774-69-2]

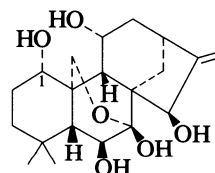
Constit. of *Calibrachoa parviflora*. Cryst. (EtOAc/heptane). Mp 147-150°. $[\alpha]_D$ +21° (c, 1 in $CHCl_3$).

Elliger, C.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, 55, 1477 (isol, pmr, cmr, cryst struct)

7,20-Epoxy-16-kaurene-1,6,7,11,15-pentol

E-10119

Updated Entry replacing E-00967

(ent-1 β ,6 α ,11 β ,15 α)-form

$C_{20}H_{30}O_6$ M 366.453
(ent-1 β ,6 α ,11 β ,15 α)-form [40768-50-1]
Cryst. Mp 259-261°.

1-O- β -D-Glucopyranoside: [79849-98-2]. **Shikokiaside A**

$C_{26}H_{40}O_{11}$ M 528.595

Constit. of *Rabdosia shikokiana*. Cryst. Mp 235-240°.

$[\alpha]_D^{25} + 0.5^\circ$ (c, 0.8 in Py).

1,11-Di-Ac: [80138-56-3]. ent-1 β ,11 β -Diacetoxy-7,20-epoxy-16-kaurene-6 α ,7,15 α -triol. **Rabdosichuanin D**

$C_{24}H_{34}O_8$ M 450.528

Isol. from *R. setschwanensis*. Cryst. Mp 246-248°. $[\alpha]_D^{25} - 32.79^\circ$ (c, 0.427 in MeOH).

1,11,15-Tri-Ac: [80138-69-8]. ent-1 β ,11 β ,15 α -Triacetoxy-7,20-epoxy-16-kaurene-6 α ,7-diol. **Rabdosianin A**

$C_{26}H_{36}O_9$ M 492.565

Constit. of *R. shikokiana*. Cryst. (Et₂O). Mp 150-153°.

$[\alpha]_D^{20} - 50^\circ$ (c, 0.21 in CHCl₃).

1,6,11,15-Tetra-Ac: [80138-68-7]. ent-1 β ,6 α ,11 β ,15 α -Tetraacetoxy-7,20-epoxy-16-kauren-7-ol. **Rabdosianin B**

$C_{28}H_{38}O_{10}$ M 534.602

Constit. of *R. shikokiana*. Cryst. (Et₂O). Mp 215° dec.

$[\alpha]_D^{20} - 70^\circ$ (c, 0.39 in CHCl₃).

15-Ketone: [76470-15-0]. ent-7,20-Epoxy-1 β ,6 α ,7,11 β -tetrahydroxy-16-kauren-15-one. **Effusanin E**

$C_{20}H_{28}O_6$ M 364.438

Isol. from *R. effusa*, *R. ternifolia* and *R. nervosa*. Shows antibacterial activity. Cryst. Mp 250-252°. $[\alpha]_D^{21} - 81.3^\circ$ (c, 0.28 in Py).

15-Ketone, 1,11-di-Ac: [24267-69-4]. ent-1 β ,11 β -Diacetoxy-7,20-epoxy-6 α ,7 α -dihydroxy-16-kauren-15-one.

Shikokianin

$C_{24}H_{32}O_8$ M 448.512

Isol. from *Isodon shikokianus*. Shows antibacterial and cytotoxic activity. Cryst. Mp 286-288° dec. $[\alpha]_D^{22} - 38.6^\circ$ (Py).

11-Ketone, 1,6,15-tri-Ac: [41410-57-5]. ent-1 β ,6 α ,15 α -Triacetoxy-7,20-epoxy-7 α -hydroxy-16-kauren-11-one.

Shikokianidin

$C_{26}H_{34}O_9$ M 490.549

Constit. of *I. shikokianus*. Cryst. (EtOH). Mp 218-219°.

$[\alpha]_D - 109^\circ$ (Py).

(ent-1 β ,6 α ,11 α ,15 α)-form

11-Ac: [27548-84-1]. ent-11 α -Acetoxy-7,20-epoxy-16-kaurene-1 β ,6 α ,7,15 α -tetrol. **Sodoponin**

$C_{22}H_{32}O_7$ M 408.491

Isol. from *I. japonicus* and *R. spp.* Cryst. Mp 229-231.5°. $[\alpha]_D^{28} + 45.7^\circ$ (c, 1 in Py).

6,11-Di-Ac: [90730-85-1]. ent-6 α ,11 α -Diacetoxy-7,20-epoxy-16-kaurene-1 β ,7,15 α -triol. **Ternifolin**

$C_{24}H_{34}O_8$ M 450.528

Isol. from *R. ternifolia*. Drawing error in CA.

15-Ketone: [38602-52-7]. ent-7,20-Epoxy-1 β ,6 α ,7,11 α -tetrahydroxy-16-kauren-15-one. **Lasiodonin**

$C_{20}H_{28}O_6$ M 364.438

Isol. from *I. lasiocarpus*. Cryst. (MeOH). Mp 252-254° dec. $[\alpha]_D^{17} - 100^\circ$ (c, 1 in Py).

11-O- β -D-Glucopyranoside: [136832-03-6]. **Parvifoliside**

$C_{26}H_{40}O_{11}$ M 528.595

Constit. of *I. parvifolia*. Cryst. Mp 279-281°. $[\alpha]_D^{20} + 0.5^\circ$ (c, 0.4 in MeOH).

1,11-Acetonide: **Wikstroemioidin B**

$C_{23}H_{34}O_6$ M 406.518

Constit. of *I. wikstroemioides*. Needles (MeOH). Mp 110-112°. $[\alpha]_D^{25} - 17.6^\circ$ (c, 0.23 in Py).

Kubota, T. et al, *Bull. Chem. Soc. Jpn.*, 1969, **42**, 1778

(*Shikokianin*)

Fujita, E. et al, *Chem. Pharm. Bull.*, 1972, **20**, 1752; 1973, **21**, 1357

(*Lasiodonin, Sodoponin*)

Isobe, T. et al, *Bull. Chem. Soc. Jpn.*, 1973, **46**, 583 (*Shikokianidin*)

Kubo, I. et al, *Agric. Biol. Chem.*, 1974, **38**, 1261.

Kubo, I. et al, *J. Am. Chem. Soc.*, 1978, **100**, 628.

Fujita, T. et al, *Chem. Lett.*, 1980, 1635 (*Effusanin E*)

Ochi, M. et al, *Bull. Chem. Soc. Jpn.*, 1981, **54**, 2786

(*Rabdosianins*)

Isobe, T. et al, *Chem. Lett.*, 1981, 1225 (*Shikokiaside A*)

Wang, X. et al, *CA*, 1986, **104**, 31723h (*Ternifolin*)

Hao, H. et al, *Phytochemistry*, 1990, **29**, 2591 (*isol, pmr, cmr*)

Guo, Y. et al, *Chin. Chem. Lett.*, 1991, **2**, 377; *CA*, **115**, 203294q

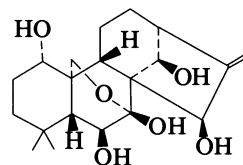
(*Parvifoliside*)

Shun-Hua, W. et al, *Phytochemistry*, 1993, **34**, 1099

(*Wikstroemioidin B*)

7,20-Epoxy-16-kaurene-1,6,7,14,15-pentol E-10120

Updated Entry replacing E-00968



$C_{20}H_{30}O_6$ M 366.453

(ent-1 β ,6 α ,14 α ,15 α)-form [28957-06-4] **Enmenol**

Constit. of leaves of *Isodon trichocarpus* and from *Rabdosia spp.* Cryst. (EtOAc). Mp 240-242°. $[\alpha]_D^{30.5} - 29^\circ$ (c, 0.14 in EtOH).

1-Ac: [52718-05-5]. ent-1 β -Acetoxy-7,20-epoxy-16-kaurene-6 α ,7,14 α ,15 α -tetrol. **Lasiokaurinol**

$C_{22}H_{32}O_7$ M 408.491

Constit. of *I. lasiocarpus*. Cryst. (MeOH). Mp 143-147°, Mp 218-221° dec. (double Mp). $[\alpha]_D^{27} - 12^\circ$ (c, 0.085 in MeOH).

1,6-Di-Ac: [150148-80-4]. **Rabdokaurin C**

$C_{24}H_{34}O_8$ M 450.528

Constit. of *R. longituba*. Needles (MeOH). Mp 232-234°.

$[\alpha]_D - 17.5^\circ$ (c, 1.16 in Py).

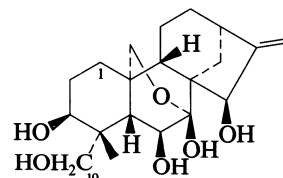
Mori, S. et al, *Chem. Pharm. Bull.*, 1970, **18**, 871 (*Enmenol*)

Fujita, E. et al, *Chem. Pharm. Bull.*, 1974, **22**, 280 (*Lasiokaurinol*)

Takeda, Y. et al, *Chem. Pharm. Bull.*, 1993, **41**, 685 (*Rabdokaurin C*)

7,20-Epoxy-16-kaurene-3,6,7,15,19-pentol E-10121

Updated Entry replacing E-00969



$C_{20}H_{30}O_6$ M 366.453

(ent-3 α ,6 α ,15 α)-form

Maoecrystal K

Constit. of *Rabdosia eriocalyx*. Cryst. Mp 191.5-193°. $[\alpha]_D^{26.5} - 1.3^\circ$ (c, 1 in MeOH).

19-O- β -D-Glucopyranoside: **Rabdoside I**

$C_{26}H_{40}O_{11}$ M 528.595

Constit. of *R. eriocalyx*. Cryst. Mp 179-180°. $[\alpha]_D^{26.5} - 4.6^\circ$ (c, 1 in MeOH).

15-Ketone, 3,19-di-Ac: ent-3 α ,19-Diacetoxy-7,20-epoxy-6 α ,7-dihydroxy-16-kauren-15-one. **Maoecrystal J**

$C_{24}H_{32}O_8$ M 448.512

Constit. of *R. eriocalyx*. Cryst. (Me₂CO/hexane). Mp 249-250°. $[\alpha]_D - 49.7^\circ$ (c, 1 in MeOH).

15-Ketone, 19-Ac: ent-19-Acetoxy-7,20-epoxy-3 α ,6 α ,7-trihydroxy-16-kauren-15-one

$C_{22}H_{30}O_7$ M 406.475

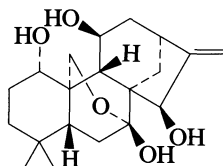
Constit. of *R. longituba*. Cryst. Mp 210-212°. $[\alpha]_D^{29}$ –88.9° (c, 0.9 in MeOH).

Shen, X. *et al*, *Phytochemistry*, 1989, **28**, 855.

Isogai, A. *et al*, *Phytochemistry*, 1989, **28**, 2427 (*isol*, *pmr*, *cmr*)

Takeda, Y. *et al*, *Planta Med.*, 1992, **58**, 470 (*isol*, *pmr*, *cmr*)

7,20-Epoxy-16-kaurene-1,7,11,15-tetrol **E-10122**



$C_{20}H_{30}O_5$ M 350.454

(*ent*-1 β ,7 α ,11 α ,15 α)-*form*

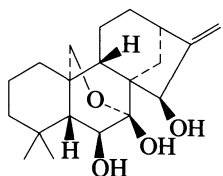
1,11-O-Isopropylidene: *Rabdocoetsin C*

$C_{23}H_{34}O_5$ M 390.519

Constit. of *Rabdosia coetsa*. Needles. Mp 248-249°.

Xu, Y. *et al*, *Phytochemistry*, 1993, **34**, 576 (*isol*, *pmr*, *cmr*)

7,20-Epoxy-16-kaurene-6,7,15-triol **E-10123**



$C_{20}H_{30}O_4$ M 334.455

(*ent*-6 α ,15 α)-*form*

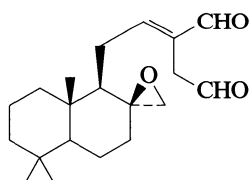
6-Ac: [133269-18-8]. *ent*-6 β -Acetoxy-7,20-epoxy-16-kaurene-7,15-diol. *Maoecrystal G*

$C_{22}H_{32}O_5$ M 376.492

Constit. of *Rabdosia eriocalyx*. Cryst. Mp 205-207°.

Shen, X. *et al*, *Acta Bot. Sin. (Engl. Transl.)*, 1990, **32**, 711 (*isol*, *pmr*, *cmr*)

8,17-Epoxy-12-labdene-15,16-dial **E-10124**



$C_{20}H_{30}O_3$ M 318.455

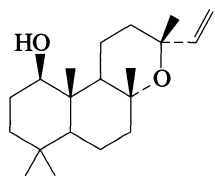
(8 β ,12*E*)-*form*

ZT

Constit. of *Zingiber officinale*.

Tanabe, M. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 710.

8,13-Epoxy-14-labden-1-ol **E-10125**



$C_{20}H_{34}O_2$ M 306.487

(1 β ,8 α ,13*R*)-*form*

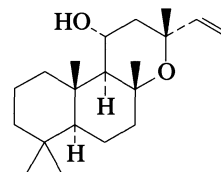
1 β -Hydroxymanoyl oxide

Constit. of *Kyllinga erecta*. Cryst. Mp 100°. $[\alpha]_D$ +3.3° (c, 0.27 in $CHCl_3$).

Mahmout, Y. *et al*, *Phytochemistry*, 1993, **34**, 865 (*isol*, *pmr*, *cmr*)

8,13-Epoxy-14-labden-11-ol **E-10126**

Updated Entry replacing E-01037



$C_{20}H_{34}O_2$ M 306.487

(8 α ,11 α ,13*R*)-*form*

11 α -Hydroxymanoyl oxide

Constit. of *Kyllinga erecta*. Cryst. Mp 85°. $[\alpha]_D$ –17.6° (c, 0.225 in $CHCl_3$).

11-Ketone: [61242-47-5]. 8,13-Epoxy-14-labden-11-one

$C_{20}H_{32}O_2$ M 304.472

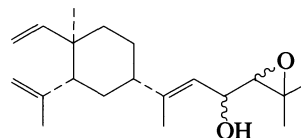
Constit. of *Coleus forskohlii*. Cryst. (2-propanol). Mp 96-97°. $[\alpha]_D^{20}$ –103.2° (c, 0.2 in $CHCl_3$).

Gabetta, B. *et al*, *Phytochemistry*, 1989, **28**, 859 (*ketone*)

Mahmout, Y. *et al*, *Phytochemistry*, 1993, **34**, 865 (*isol*, *pmr*, *cmr*)

17,18-Epoxy-8,10,13(15)-lobatrien-16-ol **E-10127**

[150312-94-0]

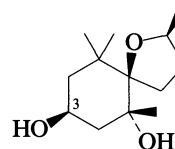


$C_{20}H_{32}O_2$ M 304.472

Constit. of a *Lobophytum* sp. Oil. $[\alpha]_D$ +10.7° (c, 1.4 in $CHCl_3$).

Raju, B.L. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 961 (*isol*, *pmr*, *cmr*)

6,9-Epoxy-3,5-megastigmanediol **E-10128**



$C_{13}H_{24}O_3$ M 228.331

3-O- β -D-Glucopyranoside: [151516-48-2]. *Scorospinoside*

$C_{19}H_{34}O_8$ M 390.473

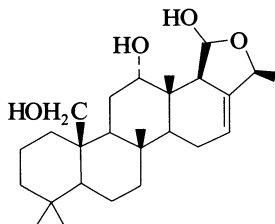
Constit. of *Scorodocarpus borneensis*. Glassy oil. $[\alpha]_D^{24}$ –25.8° (c, 0.06 in MeOH).

Abe, F. *et al*, *Phytochemistry*, 1993, **33**, 1499 (*isol*, *pmr*, *cmr*)

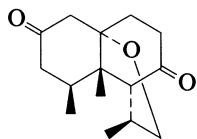
24,25-Epoxy-24-methyl-16-scalarene-12,22,25-triol

E-10129

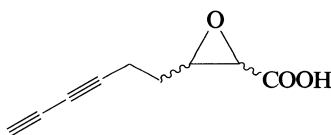
Updated Entry replacing E-01082

 $C_{26}H_{42}O_4$ M 418.615**(12 α ,25 ξ)-form** [85354-71-8]**Ac: 22-Hydroxy-20-methyldeoxoscalarin** $C_{28}H_{44}O_5$ M 460.653Constit. of *Chromodoris sedna*. Oil.**12-Ac, 25-Me ether:** $C_{29}H_{46}O_5$ M 474.679Constit. of *Phyllospongia dendyi*. Needles (CHCl₃/pet. ether). Mp 200-201°. [α]_D²⁵ +14.5° (c, 0.15 in CHCl₃).Hochlowski, J.E. *et al*, *J. Org. Chem.*, 1983, **48**, 1738.Rao, C.B. *et al*, *Indian J. Chem., Sect. B*, 1993, **32**, 288 (*isol*, *pmr*, *cmr*)**10,12-Epoxy-2,7-nardosinanedione**

E-10130

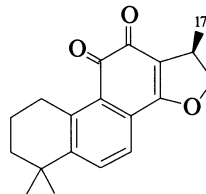
 $C_{15}H_{22}O_3$ M 250.337**(10 α)-form****2,7-Nardosinoxanedione**Constit. of *Lemnalia africana*. Semicrystalline. [α]_D +87° (c, 0.3 in CHCl₃).Jurek, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 508 (*isol*, *pmr*, *cmr*)**2,3-Epoxy-6,8-nonadiynoic acid**

E-10131

3-(3,5-Hexadiynyl)oxiranecarboxylic acid $C_9H_8O_3$ M 164.160**2-Phenylethylamide:** [96917-25-8]. **3-(3,5-Hexadiynyl)-N-(2-phenylethyl)oxiranecarboxamide. 2,3-Epoxy-6,8-nonadiynoic acid 2-phenylethylamide** $C_{17}H_{17}NO_2$ M 267.327Isol. from *Acmella ciliata* and *Salmea scandens*. Oil.**(Z)-2-Phenylethylamide:** [75872-78-5]. **3-(3,5-Hexadiynyl)-N-(2-phenylethyl)oxiranecarboxamide, 9CI. 1,2-Epoxy-6,8-nonadiynoic acid styrylamide** $C_{17}H_{15}NO_2$ M 265.311Isol. from *Spilanthes alba*. Oil.Bohlmann, F. *et al*, *Phytochemistry*, 1980, **19**, 1535; 1985, **24**, 595 (*isol*, *struct*, *pmr*, *ir*, *ms*)Martin, R. *et al*, *Phytochemistry*, 1985, **24**, 2295 (*isol*, *struct*, *pmr*, *ms*)**14,16-Epoxy-20-nor-5(10),6,8,13-abietatetraene-11,12-dione**

E-10132

Updated Entry replacing E-01090



Absolute configuration

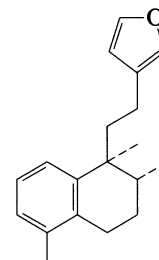
 $C_{19}H_{20}O_3$ M 296.365**(R)-form** [35825-57-1] **Cryptotanshinone**Isol. from root of *Salvia miltiorrhiza* and from *Rosmarinus officinalis*. Red cryst. Mp 182°. [α]_D²¹ -91.4° (CHCl₃).**17-Hydroxy: 17-Hydroxycryptotanshinone** $C_{19}H_{20}O_4$ M 312.365Isol. from *S. munzii*. Reddish solid.**(±)-form**

Orange-brown needles. Mp 174-175°.

[4783-35-1]

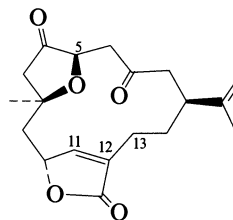
Takiura, K. *et al*, *Chem. Pharm. Bull.*, 1962, **10**, 112 (*isol*)Baillie, A.C. *et al*, *J. Chem. Soc. C*, 1968, 48 (*synth*)Inouye, Y. *et al*, *Bull. Chem. Soc. Jpn.*, 1969, **42**, 3318 (*synth*)Tateishi, M. *et al*, *Tetrahedron*, 1971, **27**, 237 (*synth*)Brieskorn, C.H. *et al*, *Planta Med.*, 1973, **24**, 190 (*isol*)Romanova, A.S. *et al*, *Khim. Prir. Soedin.*, 1977, 414 (*isol*)Tomita, Y. *et al*, *J. Chem. Soc., Chem. Commun.*, 1987, 1311 (*biosynth*, *abs config*)Luis, J.G. *et al*, *Tetrahedron*, 1993, **49**, 6277 (*17-Hydroxycryptotanshinone*)**15,16-Epoxy-19-nor-1,3,5(10),13(16),14-clerodapentaene**

E-10133

 $C_{19}H_{24}O$ M 268.398**ent-form**Constit. of *Croton cortesianus*.Siems, K. *et al*, *Phytochemistry*, 1992, **31**, 4363 (*isol*, *pmr*)**5,8-Epoxy-18-nor-3,6-dioxo-11,15-cembradien-20,10-olide**

E-10134

Updated Entry replacing E-01096

**(1S,5R,8S,10R)-form** $C_{19}H_{24}O_5$ M 332.396

(1S,5R,8S,10R)-form

Constit. of soft coral *Simularia numerosa*. Cryst. $[\alpha]_D$ -47° (c, 0.01 in CHCl_3).

11 β ,12 β -Epoxy: 5,8:11,12-Diepoxy-18-nor-3,6-dioxo-11,15-cembradien-20,10-olide

$\text{C}_{19}\text{H}_{24}\text{O}_6$ M 348.395

Constit. of *S. inelegans*. Cryst. Mp 176-177°. $[\alpha]_D$ -36° (c, 0.009 in CHCl_3).

$\Delta^{12,13}$ -Isomer, 11 α -hydroxy: 5,8-Epoxy-11 α -hydroxy-18-nor-3,6-dioxo-12,15-cembradien-20,10-olide

$\text{C}_{19}\text{H}_{24}\text{O}_6$ M 348.395

Constit. of *S. inelegans*. Cryst. Mp 196-197°. $[\alpha]_D$ $+3.8^\circ$ (c, 0.004 in CHCl_3).

$\Delta^{12,13}$ -Isomer, 11 β -hydroxy: 5,8-Epoxy-11 β -hydroxy-18-nor-3,6-dioxo-12,15-cembradien-20,10-olide

$\text{C}_{19}\text{H}_{24}\text{O}_6$ M 348.395

Constit. of *S. numerosa*, *S. querciformis* and *S. leptoclades*.

(1S,5S,8S,10R)-form

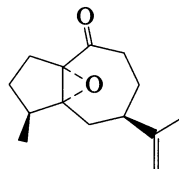
$\Delta^{12,13}$ -Isomer, 11 β -hydroxy: **Sinuleptolide**

Constit. of a *S.* sp. Prisms (MeOH). Mp 206-208°. $[\alpha]_D^{25}$ $+57.5^\circ$ (c, 0.27 in MeOH).

Bowden, B.F. *et al*, *Aust. J. Chem.*, 1978, **31**, 2049 (*cryst struct, deriv*)

Sato, A. *et al*, *Tetrahedron*, 1985, **41**, 4303 (*cryst struct*)

Shoji, N. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1651 (*Sinuleptolide*)

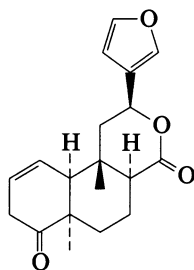
1,5-Epoxy-14-nor-11-guaien-10-one**E-10135**

$\text{C}_{14}\text{H}_{20}\text{O}_2$ M 220.311

(1 α ,4 β ,5 α)-form [150034-01-8]

Constit. of *Aquilaria agallocha* (agarwood). Cryst. Mp 91.5°. $[\alpha]_D^{30}$ $+51.6^\circ$ (c, 0.2 in CHCl_3).

Ishihara, M. *et al*, *Phytochemistry*, 1993, **33**, 1147 (*isol, pmr, cmr*)

15,16-Epoxy-18-nor-4-oxo-1,13(16),14-clerodatrien-17,12-olide**E-10136****(5 α ,8 α H,12 α H)-form**

$\text{C}_{19}\text{H}_{22}\text{O}_4$ M 314.380

(5 α ,8 α H,12 α H)-form

Tinocallone B

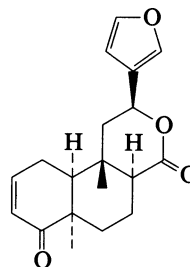
Constit. of *Timospora capillipes*. Cryst. Mp 225°. $[\alpha]_D$ -101.3° (c, 0.5 in CHCl_3).

(5 α ,8 β H,12 α H)-form

Tinocallone A

Constit. of *T. capillipes*. Cryst. Mp 125°. $[\alpha]_D$ -38.19° (c, 0.54 in CHCl_3).

Song, C.Q. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 185 (*isol, pmr, cmr*)

15,16-Epoxy-18-nor-4-oxo-2,13(16),14-clerodatrien-17,12-olide**E-10137****(5 α ,8 α H,12 α H)-form**

$\text{C}_{19}\text{H}_{22}\text{O}_4$ M 314.380

(5 α ,8 α H,12 α H)-form

Tinocallone D

Constit. of *Timospora capillipes*. Cryst. Mp 188-189°. $[\alpha]_D$ $+1.85^\circ$ (c, 0.81 in CHCl_3).

(5 α ,8 β H,12 α H)-form

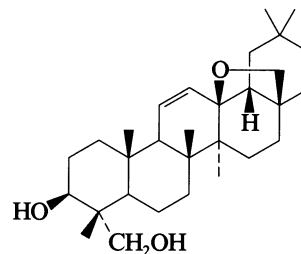
Tinocallone C

Constit. of *T. capillipes*. Cryst. Mp 194-195°. $[\alpha]_D$ -2.8° (c, 0.64 in CHCl_3).

Song, C.Q. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 185 (*isol, pmr, cmr*)

13,28-Epoxy-11-oleanene-3,23-diol**E-10138**

Updated Entry replacing O-00354



$\text{C}_{30}\text{H}_{48}\text{O}_3$ M 456.707

Struct. revised in 1993 formerly thought to be 12-Oleanene-3,13,23,28-tetrol.

(3 β ,13 β)-form

Verbascogenin

Not isol. Hydrol. of Verbascosaponin led to dehydration.

3-O- $[\alpha$ -L-Rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 3)- $[\beta$ -D-glucopyranosyl-(1 \rightarrow 2)]- β -D-fucopyranoside]:

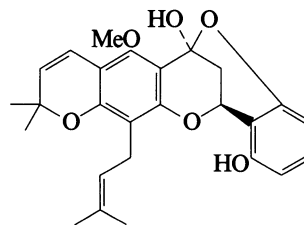
[74163-66-9]. **Verbascosaponin**

$\text{C}_{54}\text{H}_{88}\text{O}_{21}$ M 1073.277

Saponin from *Verbascum phlomoides*. Mp 263-268°.

Tschesche, R. *et al*, *Chem. Ber.*, 1980, **113**, 1754 (*isol, cmr, struct*)

Schröder, H. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 413 (*isol, pmr, cmr*)

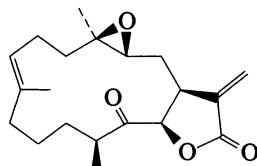
4,6'-Epoxyoritini flavanol**E-10139**

$\text{C}_{26}\text{H}_{28}\text{O}_6$ M 436.504

Tentative identification. Constit. of *Lonchocarpus orotinus*.
Not obt. pure.

Waterman, P.G. *et al*, *Phytochemistry*, 1987, **26**, 1189.

3,4-Epoxy-13-oxo-7,15(17)-cembradien-15,14-olide E-10140



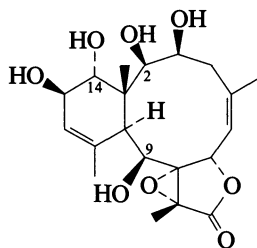
$C_{20}H_{28}O_4$ M 332.439
(3*R*,4*R*,7*E*,12*S*,14*R*)-form

Eupalmerone

Constit. of *Eunicea mammosa*. Cryst. Mp 159-160°.

Rodríguez, A.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1101 (*isol*, *pmr*, *cmr*)

8,17-Epoxy-2,3,9,13,14-pentahydroxy-5,11-briaradien-18,7-olide E-10141



$C_{20}H_{28}O_8$ M 396.436
(2*β*,3*β*,5*Z*,7*α*,8*α*,9*β*,13*β*,14*α*,17*α*)-form

2,3,9,14-Tetra-Ac: **Stecholide J**

$C_{28}H_{36}O_{12}$ M 564.585

Constit. of *Solenopodium excavatum*. Cryst. Mp 204°.

$[\alpha]_D^{20}$ – 39.2° (c, 0.5 in $CHCl_3$).

3-Butanoyl, 2,9,14-tri-Ac: **Stecholide I**

$C_{30}H_{40}O_{12}$ M 592.639

Constit. of *S. excavatum*. Cryst. (MeOH). Mp 116-118°.

$[\alpha]_D^{20}$ – 40.8° (c, 2.55 in $CHCl_3$).

11*β*,12*β*-Epoxide, 3-butanoyl, 2,9,14-tri-Ac: **Stecholide M**

$C_{30}H_{40}O_{13}$ M 608.638

Constit. of *S. excavatum*. Cryst. Mp 108°. $[\alpha]_D^{20}$ – 62.6° (c, 0.26 in $CHCl_3$).

11*β*,12*β*-Epoxide, 2,3,9,14-tetra-Ac: **Stecholide L**

$C_{28}H_{36}O_{13}$ M 580.585

Constit. of *S. excavatum*. Cryst. Mp 148-150°. $[\alpha]_D^{20}$ – 53.3° (c, 2.28 in $CHCl_3$).

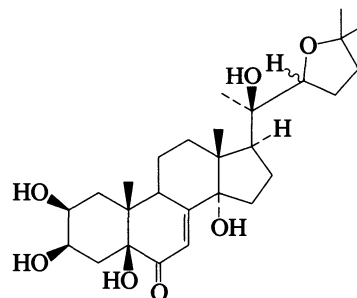
11*β*,12*β*-Epoxide, 2,3,9,13,14-penta-Ac: **Stecholide K**

$C_{30}H_{38}O_{14}$ M 622.622

Constit. of *S. excavatum*. Glass. $[\alpha]_D^{20}$ – 58.5° (c, 0.39 in $CHCl_3$).

Schmitz, F.J. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1339 (*isol*, *pmr*, *cmr*, *cryst struct*)

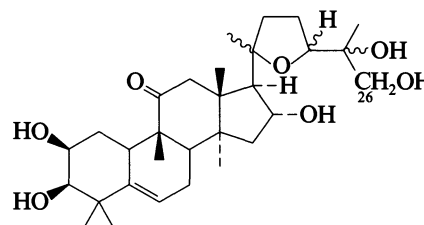
22,25-Epoxy-2,3,5,14,20-pentahydroxycholest-7-en-6-one E-10142



$C_{27}H_{42}O_7$ M 478.625
(2*β*,3*β*,5*β*,14*α*,20*R*,22*ξ*)-form [80651-74-7] **Ajugasterone D**
Constit. of *Ajuga nipponensis*.

Li, W. *et al*, *Huaxue Xuebao*, 1981, **39**, 735; *CA*, **97**, 145120b.

20,24-Epoxy-2,3,16,25,26-pentahydroxycucurbit-5-en-11-one E-10143



$C_{30}H_{48}O_7$ M 520.705
(2*β*,3*β*,16*α*,20*ξ*,24*ξ*,25*ξ*)-form

2-O-*β*-D-Glucopyranoside: [151162-87-7].

$C_{36}H_{58}O_{12}$ M 682.847

Constit. of *Picrorhiza kurroa*. Amorph. powder. Mp 160-163°.

3-Ketone, 2-O-*β*-D-Glucopyranoside: [151162-86-6]. 20,24-Epoxy-2-glucosyloxy-16,25,26-trihydroxycucurbit-5-ene-3,11-dione

$C_{36}H_{56}O_{12}$ M 680.831

Constit. of *P. kurroa*. Amorph. powder. Mp 175-178°.

26-Deoxy, 2-O-*β*-D-glucopyranoside: [151162-85-5]. 20,24-Epoxy-2-glucosyloxy-3,16,25-trihydroxycucurbit-5-en-11-one

$C_{36}H_{58}O_{11}$ M 666.848

Constit. of *Picrorhiza kurroa*. Amorph. powder. Mp 126-130°.

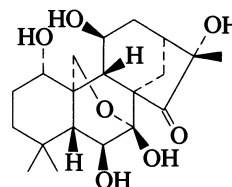
26-Deoxy, 3-ketone, 2-O-*β*-D-glucopyranoside: [151162-82-2]. 20,24-Epoxy-2-glucosyloxy-16,25-dihydroxycucurbit-5-ene-3,11-dione

$C_{36}H_{56}O_{11}$ M 664.832

Constit. of *P. kurroa*. Amorph. powder. Mp 132-135°.

Stuppner, H. *et al*, *Phytochemistry*, 1993, **33**, 1139 (*isol*, *pmr*, *cmr*)

7,20-Epoxy-1,6,7,11,16-pentahydroxy-15-kauranone E-10144

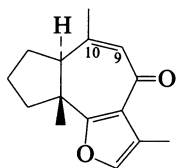


$C_{20}H_{30}O_7$ M 382.453

(ent-1 β ,6 α ,11 α ,16 β OH)-form**Parvifolin**

Constit. of *Isodon parvifolia*. Amorph. powder. $[\alpha]_D^{20}$ –117° (MeOH).

Guo, Y.W. *et al*, *Chin. Chem. Lett.*, 1992, 3, 633 (*isol, pmr, cmr*)

6,12-Epoxy-6,9,11-pseudoguaiatrien-8-one E-10145

$C_{15}H_{18}O_2$ M 230.306

(1 α ,5 β)-form [140245-63-2] 9-Furanomexicen-8-one

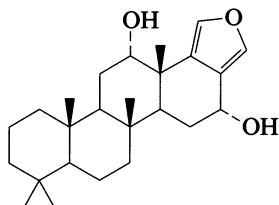
Constit. of *Ligularia vigaurea*. Wax. $[\alpha]_D^{23}$ +95.0° (c, 0.72 in $CHCl_3$).

9 β ,10 β -Epoxide: [140245-64-3]. 6,12:9,10-Diepoxy-6,11-pseudoguaiadien-8-one. 9,10-Epoxy-8-furanomexicanone

$C_{15}H_{18}O_3$ M 246.305

Constit. of *L. vigaurea*. Wax. $[\alpha]_D^{23}$ –65.0° (c, 0.78 in $CHCl_3$).

Chen, H.M. *et al*, *Chin. Chem. Lett.*, 1991, 2, 847 (*isol, pmr, cmr*)

24,25-Epoxy-17(25),18(24)-scalaradiene-12,6-diol E-10146

$C_{25}H_{38}O_3$ M 386.573

(12 α ,16 α)-form**12-Ac: Isoscalarafuran B**

$C_{27}H_{40}O_4$ M 428.611

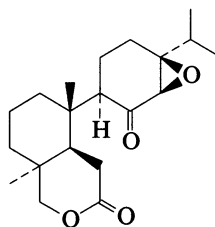
Constit. of *Spongia hispida*. Oil.

(12 α ,16 β)-form**12-Ac: Isoscalarafuran A**

$C_{27}H_{40}O_4$ M 428.611

Constit. of *S. hispida*. Oil.

Davis, R. *et al*, *Aust. J. Chem.*, 1993, 46, 1295 (*isol, pmr, cmr*)

13,14-Epoxy-7,8-seco-7,19-abietanolide E-10147

$C_{20}H_{30}O_4$ M 334.455

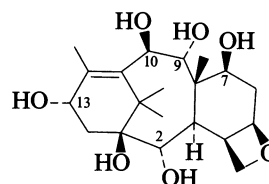
(13 β ,14 β)-form [151484-89-8] Secojuniperolide

Constit. of *Juniperus chinensis*. Cryst. Mp 96-98°. $[\alpha]_D^{25}$ +20.6° (c, 0.16 in MeOH).

Fang, J.-M. *et al*, *Phytochemistry*, 1993, 33, 1169 (*isol, pmr, cmr, cryst struct*)

5,20-Epoxy-11-taxene-1,2,7,9,10,13-hexol E-10148

Updated Entry replacing E-01178



$C_{20}H_{32}O_7$ M 384.469

(1 β ,2 α ,5 β ,7 β ,9 α ,10 β ,13 α)-form**2-Benzoyl, 7,9,10-tri-Ac: 13-Deacetylbaaccatin VI**

$C_{33}H_{42}O_{11}$ M 614.688

Constit. of *Taxus wallichiana*. Needles

(MeOAc/hexane). Mp 225-226°. $[\alpha]_D^{20}$ –38° (c, 1.01 in MeOH).

2-Benzoyl, 7,9,10,13-tetra-Ac: [57672-79-4]. 7 β ,9 α ,10 β ,13 α -Tetraacetoxy-2 α -benzoyloxy-5 β ,20-epoxy-11-taxen-1 β -ol. Baaccatin VI

$C_{35}H_{44}O_{12}$ M 656.725

Constit. of *T. baccata*. Cryst. Mp 244-245° dec. $[\alpha]_D$ –5°.

2-Hexanoyl, 7,9,10,13-tetra-Ac: [57672-80-7]. Baaccatin VII

$C_{34}H_{50}O_{12}$ M 650.762

Isol. from *T. baccata*. Cryst. Mp 270° dec. $[\alpha]_D$ +9°.

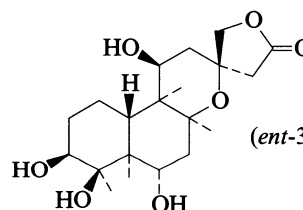
Castellano, E.E. *et al*, *Acta Crystallogr., Sect. B*, 1973, 29, 2566 (*cryst struct*)

de Marco, D.P.D.C. *et al*, *J. Chem. Soc., Chem. Commun.*, 1975, 365.

Barboni, L. *et al*, *Phytochemistry*, 1993, 33, 145 (13-Deacetylbaaccatin VI)

8,13-Epoxy-3,4,6,11-tetrahydroxy-15,16-clerodanolide E-10149

Updated Entry replacing E-01191



(ent-3 α ,4 α ,6 β ,8 α ,11 α ,13S)-form

$C_{20}H_{32}O_7$ M 368.469

(ent-3 α ,4 α ,6 β ,8 α ,11 α ,13S)-form**6-Benzoyl, 11-Ac: [114489-74-6]. Scutellone C**

$C_{29}H_{38}O_9$ M 530.614

Constit. of *Scutellaria rivularis*. Needles (Me₂CO). Mp 228-230°. $[\alpha]_D^{20}$ –20.0° (c, 1 in $CHCl_3$).

(ent-3 β ,4 α ,6 β ,8 α ,11 α ,13R)-form**6-Benzoyl, 11-Ac: [112609-10-6]. Scuterivulactone C₂**

$C_{29}H_{38}O_9$ M 530.614

Constit. of *S. rivularis*. Amorph. (as acetate). $[\alpha]_D$ –31° ($CHCl_3$) (acetate).

(ent-3 β ,4 α ,6 β ,8 α ,11 α ,13S)-form**6-Benzoyl, 11-Ac: [114489-73-5]. Scutellone A.**

Scuterivulactone C₁

$C_{29}H_{38}O_9$ M 530.614

Isol. from *S. rivularis*. Prisms (Me₂CO); cryst. (EtOAc). Mp 290-292° (268-272°). $[\alpha]_D$ –7.0° (AcOH), $[\alpha]_D$ +1.26° (c, 1.0 in MeOH).

3-Ketone, 6-benzoyl, 11-Ac: [119614-69-6]. Scutellone B

$C_{29}H_{36}O_9$ M 528.598

Constit. of *S. rivularis*. Needles (Me₂CO). Mp 196-198°. $[\alpha]_D^{25} + 54.9^\circ$ (c, 1 in CHCl₃).

[112709-53-2]

Kikuchi, T. *et al*, *Chem. Lett.*, 1987, 987.

Lin, Y.-L. *et al*, *J. Chem. Res., Synop.*, 1987, 320 (*cryst struct*)

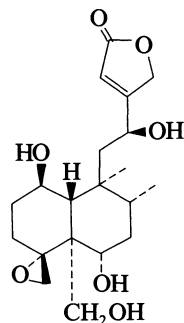
Lin, Y.-L. *et al*, *Heterocycles*, 1988, 27, 779.

Lin, Y.-L. *et al*, *Chem. Pharm. Bull.*, 1989, 37, 582 (*Scutellene B*)

4,18-Epoxy-1,6,12,19-tetrahydroxy-13-cleroden-15,16-olide

E-10150

Updated Entry replacing E-01195



C₂₀H₃₀O₇ M 382.453

(*ent-1α,4β,6β,12R*)-form

6,19-Di-Ac, 1-tigloyl: [78798-40-0]. **Ajugamarin A1.**

Ajugamarin

C₂₉H₄₀O₁₀ M 548.629

Constit. of leaves of *Ajuga nipponensis*. Needles (CCl₄).

Mp 93-95°. $[\alpha]_D^{25} - 20^\circ$ (c, 0.4 in CCl₄).

1-(2S-Methylbutanoyl), 6,19-di-Ac: [85447-28-5].

Ajugamarin B1. Dihydroajugamarin

C₂₉H₄₂O₁₀ M 550.645

Constit. of *A. nipponensis*. Amorph. solid.

1-Tigloyl, tri-Ac: [122587-82-0]. **Ajugamarin A2**

C₃₁H₄₂O₁₁ M 590.666

Constit. of *A. decumbens*. Amorph. solid. $[\alpha]_D^{25} - 38^\circ$ (c, 2.8 in CHCl₃).

1-(2S-Methylbutanoyl), tri-Ac: [121449-65-8]. **Ajugamarin B2**

C₃₁H₄₄O₁₁ M 592.682

Constit. of *A. nipponensis*. Cryst. (EtOH). Mp 154-155°.

$[\alpha]_D^{30} - 25^\circ$ (c, 0.8 in CHCl₃).

1-Tigloyl, 12-(2S-methylbutanoyl), di-Ac: [122587-83-1].

Ajugamarin G1

C₃₄H₄₈O₁₁ M 632.747

Constit. of *A. decumbens*. Cryst. (EtOH). Mp 165-167°.

$[\alpha]_D^{25} - 37^\circ$ (c, 1.1 in CHCl₃).

12-Tigloyl, 1-(2S-methylbutanoyl), di-Ac: [122616-88-0].

Ajugamarin H1

C₃₄H₄₈O₁₁ M 632.747

Constit. of *A. decumbens*. Needles (Me₂CO/hexane). Mp 75-79°.

$[\alpha]_D^{25} - 11^\circ$ (c, 1.2 in CHCl₃).

12-(2S-Methylbutanoyl), 6,12-di-Ac: [123297-96-1].

Ajugamarin E3

C₂₉H₄₂O₁₀ M 550.645

Constit. of *A. ciliata* var. *villosior*. Amorph. solid. $[\alpha]_D^{22}$

$- 37^\circ$ (c, 1.4 in CHCl₃).

12-(2S-Methylbutanoyl), 6-Ac: [123297-94-9]. **Ajugamarin E1**

C₂₇H₄₀O₉ M 508.608

Constit. of *A. ciliata* var. *villosior*. Amorph. solid. $[\alpha]_D^{22}$

$- 26.9^\circ$ (c, 2.23 in CHCl₃).

12-(2S-Methylbutanoyl), 19-Ac: [123297-95-0]. **Ajugamarin E2**

C₂₇H₄₀O₉ M 508.608

Constit. of *A. ciliata* var. *villosior*. Amorph. solid. $[\alpha]_D^{22}$

$- 19^\circ$ (c, 2 in CHCl₃).

1-(2S-Methylbutanoyl), 6-Ac: [123313-58-6]. **Ajugamarin B4**

C₂₇H₄₀O₉ M 508.608

Constit. of *A. ciliata* var. *villosior*. Amorph. solid. $[\alpha]_D^{22}$

$+ 20.2^\circ$ (c, 2.04 in CHCl₃).

1-(2S-Methylbutanoyl), 6,12-di-Ac: [123297-93-8].

Ajugamarin B5

C₂₉H₄₂O₁₀ M 550.645

Constit. of *A. ciliata* var. *villosior*. Amorph. solid. $[\alpha]_D^{22}$

$- 7.3^\circ$ (c, 2.33 in CHCl₃).

1-(2S-Methylbutanoyl), 19-Ac: [121449-66-9]. **Ajugamarin B3**

C₂₇H₄₀O₉ M 508.608

Constit. of *A. nipponensis*. Amorph. solid. $[\alpha]_D^{22} + 22^\circ$ (c, 0.9 in CHCl₃).

12-(2-Methylpropanoyl), 1,6,19-tri-Ac: **Ajugamacrin A**

C₃₀H₄₂O₁₁ M 578.655

Constit. of *A. macrosperma*.

12-(2-Methylbutanoyl), 1,6,19-tri-Ac: **Ajugamacrin B**

C₃₁H₄₄O₁₁ M 592.682

Constit. of *A. macrosperma*.

1,12-Bis-(2-methylpropanoyl), 6,19-di-Ac: **Ajugamacrin C**

C₃₂H₄₆O₁₁ M 606.709

Constit. of *A. macrosperma*. Needles (Me₂CO). Mp 206-

207°.

12-(2-Methylbutanoyl), 1-(2-methylpropanoyl), 6,19-di-Ac:

Ajugamacrin D

C₃₄H₄₈O₁₁ M 632.747

Constit. of *A. macrosperma*. Needles (Me₂CO). Mp 273-

274°.

1-(2-Methylbutanoyl), 12-(2-methylpropanoyl), 6,19-di-Ac:

Ajugamacrin E

C₃₄H₄₈O₁₁ M 632.747

Constit. of *A. macrosperma*. Needles (Me₂CO).

1,6,12,19-Tetra-Ac: **Ajugapantin A**

C₂₈H₃₈O₁₁ M 550.602

Constit. of *A. pantanthera*. Needles (Me₂CO). Mp 204-

205°.

12-(2-Methylbutanoyl), 1,6,19-tri-Ac: **Ajugamacrin B**

C₃₁H₄₄O₁₁ M 592.682

Constit. of *A. macrosperma*. Needles (Me₂CO). Mp 200.5-201.5°.

$[\alpha]_D^{20.5} - 16.5^\circ$ (c, 0.54 in CHCl₃).

12-(2-Methylpropanoyl), 1,6,19-tri-Ac: **Ajugamacrin A**

C₃₀H₄₂O₁₁ M 578.655

Constit. of *A. macrosperma*. Prisms (Me₂CO). Mp 190.5-

191.5°. $[\alpha]_D^{20.5} - 17.9^\circ$ (c, 0.55 in CHCl₃).

Shimomura, H. *et al*, *Chem. Pharm. Bull.*, 1983, 31, 2192; 1989,

37, 354, 988, 996 (*isol, pmr, cmr, cryst struct*)

Shen, X. *et al*, *Phytochemistry*, 1993, 33, 887 (*Ajugamacrins*)

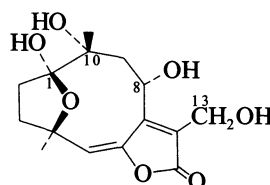
Shen, X. *et al*, *Phytochemistry*, 1993, 34, 1091 (*Ajugamacrins,*

Ajugapantin A)

1,4-Epoxy-1,8,10,13-tetrahydroxy-5,7(11)-germacradien-12,6-olide

E-10151

Updated Entry replacing E-01198



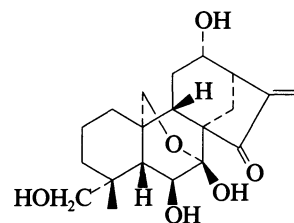
(1α,4β,8α,10α)-form

C₁₅H₂₀O₇ M 312.319

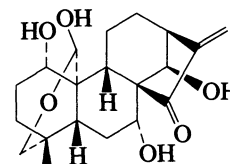
The stereochem. of all derivs. in this entry was misassigned in the earlier papers.

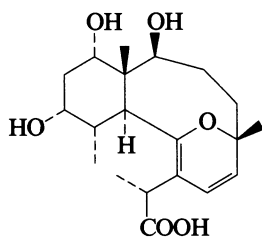
(1 α ,4 β ,8 α ,10 α)-form [119089-44-0] **Piptocarphol**Constit. of *Chrysolaena verbascifolia*. Gum.**8-Ac:** $C_{17}H_{22}O_8$ M 354.356Constit. of *C. verbascifolia*. Gum.**13-Ac:** [76215-51-5]. **Piptocarphin D** $C_{17}H_{22}O_8$ M 354.356Constit. of *Piptocarpha chontalensis*. Oil.**8,13-Di-Ac:** [72712-41-5]. **Hirsutolide**. **8 β -Acetoxy-10 β -hydroxyhirsutinolide 13-O-acetate** $C_{19}H_{24}O_9$ M 396.393Constit. of *Vernonia saltensis* and *Chromolaena propinqua*. Oil. $[\alpha]_D^{24} + 36.3^\circ$ (c, 4.1 in $CHCl_3$). Identity of the various samples not certain. Hirsutinolide is unknown.**10,13-Di-Ac:** $C_{19}H_{24}O_9$ M 396.393Constit. of *C. verbascifolia*. Gum.**1,8,13-Tri-Ac:** [72712-42-6]. **8 β -Acetoxy-10 β -hydroxyhirsutinolide 1,13-O-diacetate** $C_{21}H_{26}O_{10}$ M 438.430Constit. of *V. saltensis*. Oil. $[\alpha]_D - 3^\circ$ (c, 0.6 in $CHCl_3$).**8,10,13-Tri-Ac:** [72748-29-9]. **8 β ,10 β -Diacetoxyhirsutinolide 13-O-acetate** $C_{21}H_{26}O_{10}$ M 438.430Constit. of *Stokesia laevis*. Oil. Occurs with the 1-epimer.**8-Ac, 1-formyl:** $C_{18}H_{22}O_9$ M 382.366Constit. of *C. propinqua*. Gum.**8-(Methylpropenoyl):** [76215-50-4]. **Piptocarphin C** $C_{19}H_{24}O_8$ M 380.394Constit. of *P. chontalensis*. Oil.**13-Tigloyl:** **Piptocarphin G** $C_{20}H_{26}O_8$ M 394.421Constit. of *P. opaca*. Oil.**13-(2-Methylpropenoyl):** **Piptocarphin H** $C_{19}H_{24}O_8$ M 380.394Isol. from *P. opaca*. Oil.**8-Propanoyl, 13-Ac:** [71305-86-7]. **8 β -Propionyloxy-10 β -hydroxyhirsutinolide 13-O-acetate** $C_{20}H_{26}O_9$ M 410.420Constit. of *V. scorpioides*. Oil. $[\alpha]_D^{24} + 63.5^\circ$ (c, 0.5 in $CHCl_3$).**8-Propanoyl, 1,13-di-Ac:** [79081-71-3]. **8 β -Propionyloxy-10 β -hydroxyhirsutinolide 1,13-di-O-acetate** $C_{22}H_{28}O_{10}$ M 452.457Constit. of *V. scorpioides*. Oil.**8-(Methylpropenoyl), 13-Ac:** [76248-63-0]. **Piptocarphin A** $C_{21}H_{26}O_9$ M 422.431Constit. of *P. chontalensis*. Oil.**8-Tigloyl, 13-Ac:** [76215-49-1]. **Piptocarphin B** $C_{22}H_{28}O_9$ M 436.458Constit. of *P. chontalensis*. Oil.**13-Me ether, 8-Ac:** $C_{18}H_{24}O_8$ M 368.383Constit. of *C. verbascifolia*. Gum.**1-Me ether, 10,13-di-Ac:** $C_{20}H_{26}O_9$ M 410.420Constit. of *C. verbascifolia*.**1-Me ether, 8,13-di-Ac:** $C_{20}H_{26}O_9$ M 410.420Constit. of *C. verbascifolia*. Gum.**1,13-Di-Me ether, 8-Ac:** $C_{19}H_{26}O_8$ M 382.410Constit. of *C. verbascifolia*. Gum.**O¹-Me, 8-propanoyl, 13-Ac:** [71305-76-5]. **8-Propionyloxy-10 β -hydroxy-1-O-methylhirsutinolide 13-O-acetate** $C_{21}H_{28}O_9$ M 424.447Constit. of *V. scorpioides*. Oil. C8-config. uncertain.**1-Et ether, 8-(methylpropenoyl), 13-Ac:** [76215-52-6].**Piptocarphin E** $C_{23}H_{30}O_9$ M 450.485Constit. of *P. chontalensis*. Oil.**13-Et ether, 8-(methylpropenoyl):** [76215-53-7]. **Piptocarphin F** $C_{21}H_{28}O_8$ M 408.447Constit. of *P. chontalensis*. Oil.**O¹-Me, 8,10,13-tri-Ac:** [72778-10-0]. **8 β ,10 β -Diacetoxy-1-O-methylhirsutinolide 13-O-acetate** $C_{22}H_{28}O_{10}$ M 452.457Constit. of *S. laevis*. Oil. Occurs with the 1-epimer.**1,13-Di-Me ether, 10-Ac:** $C_{19}H_{26}O_8$ M 382.410Constit. of *C. verbascifolia*.**1-Me ether, 13-O-(3-formylphenyl), 8-Ac:** $C_{25}H_{28}O_9$ M 472.491Constit. of *C. verbascifolia*. Gum.**1-Et ether, 8,13-di-Ac:** $C_{21}H_{28}O_9$ M 424.447Constit. of *C. verbascifolia*. Gum.Bohlmann, F. et al, *Phytochemistry*, 1978, **17**, 475; 1979, **18**, 289, 987 (*isol, pmr*)Rustaiyan, A.N. et al, *Fitoterapia*, 1979, **50**, 243 (*Hirsutolide*)Cowall, P.L. et al, *J. Org. Chem.*, 1981, **46**, 1108 (*isol*)Herz, W. et al, *Phytochemistry*, 1983, **22**, 1286 (*isol*)Bardón, A. et al, *Phytochemistry*, 1992, **31**, 609; 1993, **34**, 253 (*isol, pmr, stereochem*)**7,20-Epoxy-6,7,12,19-tetrahydroxy-16-kauren-15-one**

E-10152

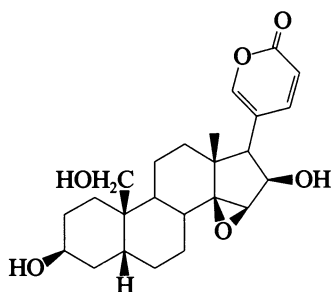
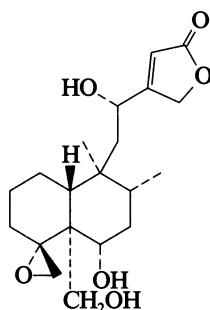
 $C_{20}H_{28}O_6$ M 364.438**(ent-6 α ,7 α OH,12 β)-form****19-Ac:** **Wikstroemioidin C** $C_{22}H_{30}O_7$ M 406.475Constit. of *Isodon wikstroemioides*. Amorph. powder. $[\alpha]_D^{25} - 71.4^\circ$ (c, 0.17 in Py).Shun-Hua, W. et al, *Phytochemistry*, 1993, **34**, 1099 (*isol, pmr, cmr*)**19,20-Epoxy-1,7,14,20-tetrahydroxy-16-kauren-15-one**

E-10153

 $C_{20}H_{28}O_6$ M 364.438**(ent-1 β ,7 β ,14 α ,20S)-form** [125445-43-4] **Rabdoinflexin A**Constit. of *Rabdosia inflexa*. Prisms. Mp 214-216°. $[\alpha]_D^{25}$ $- 115.7^\circ$ (c, 1 in MeOH).Wang, Z.-Q. et al, *Chem. Pharm. Bull.*, 1989, **37**, 2683 (*isol, pmr, cmr*)

5,9-Epoxy-2,12,14-trihydroxy-6,8-briaradien-18-oic acidC₂₀H₃₀O₆ M 366.4532,12-Dibutanoyl, 14-Ac, Me ester: [146467-22-3]. **Methyl briareolate**C₃₁H₄₆O₉ M 562.699Constit. of *Briareum asbestinum*. Cryst. Mp 165-167°.[α]_D +130.9° (c, 0.11 in CHCl₃).Maharaj, D. et al, *Tetrahedron Lett.*, 1992, 33, 7761 (isol, pmr, cmr, cryst struct)**14,15-Epoxy-3,16,19-trihydroxybufa-20,22-dienolide**

Updated Entry replacing E-01229

C₂₄H₃₂O₆ M 416.513**(3β,5β,14β,15β,16β)-form** [39844-95-6]**16-Desacetylcinobufaginol**Constit. of the venom of *Bufo formosus vulgaris*. Amorph.16-Ac: [6691-83-4]. **Cinobufaginol**C₂₆H₃₄O₇ M 458.550Constit. of Ch'an Su toad secretion. Cryst. Mp 239-242°. [α]_D -2° (MeOH).Tri-Ac: Cryst. (Et₂O/Me₂CO). Mp 202-206°.Linde, H. et al, *Helv. Chim. Acta*, 1966, 49, 1243 (*Cinobufaginol*)Gsell, L. et al, *Helv. Chim. Acta*, 1969, 52, 551 (pmr)Höriger, N. et al, *Helv. Chim. Acta*, 1972, 55, 2549.**4,18-Epoxy-6,12,19-trihydroxy-13-cleroden-15,16-olide**C₂₀H₃₀O₆ M 366.453

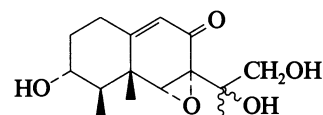
E-10154

(ent-4β,6β,12R)-form12-(2*S*-Methylbutanoyl): [122587-85-3]. **Ajugamarin F1**C₂₅H₃₈O₇ M 450.571Constit. of *Ajuga ciliata* var. *villosior*. Cryst.(EtOAc/hexane). Mp 161-163°. [α]_D²² -17.9° (c, 2.24 in CHCl₃).12-(2*S*-Methylbutanoyl), 6-Ac: [123297-97-2]. **Ajugamarin F2**C₂₇H₄₀O₈ M 492.608Constit. of *A. ciliata* var. *villosior*. Cryst. (EtOAc). Mp161-163°. [α]_D²² -14.4° (c, 2.63 in CHCl₃).12-(2*S*-Methylbutanoyl), 19-Ac: [123297-98-3]. **Ajugamarin F3**C₂₇H₄₀O₈ M 492.608Constit. of *A. ciliata* var. *villosior*. Amorph. solid. [α]_D²²-1.4° (c, 2.1 in CHCl₃).12-(2*S*-Methylbutanoyl), di-Ac: [122587-84-2]. **Ajugamarin F4**C₂₉H₄₂O₉ M 534.645Constit. of *A. decumbens*. Cryst. (Me₂CO/hexane). Mp160-163°. [α]_D²⁵ -32° (c, 0.9 in CHCl₃).Shimomura, H. et al, *Chem. Pharm. Bull.*, 1989, 37, 988, 996 (isol, pmr, cmr)

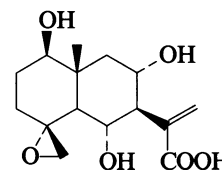
E-10155

6,7-Epoxy-3,11,12-trihydroxy-9-eremophilen-8-one

E-10157

C₁₅H₂₂O₅ M 282.336**(3α,6α,7α,11ξ)-form** [129602-07-9]Metab. of *Drechslera gigantea*.Sugawara, F. et al, *Biosci., Biotechnol., Biochem.*, 1993, 57, 236 (isol, pmr)**4,15-Epoxy-1,6,8-trihydroxy-11(13)-eudesmen-12-oic acid**

E-10158

C₁₅H₂₂O₆ M 298.335**(1β,4α,6α,8α)-form**

8-(2-Hydroxymethylpropenoyl), Me ester:

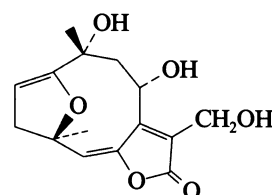
C₂₀H₂₈O₈ M 396.436Constit. of *Onopordon acaulon*. Viscous gum.Cardona, L. et al, *Phytochemistry*, 1993, 33, 1457 (isol, pmr, cmr)

E-10156

1,4-Epoxy-8,10,13-trihydroxy-1,5,7(11)-germacatrien-12,6-olide

E-10159

Updated Entry replacing E-01261



$C_{15}H_{18}O_6$ M 294.304
(4 β ,5E,8 α ,10 α)-form

8,13-Di-Ac:

$C_{19}H_{22}O_8$ M 378.378

Constit. of *Vernonia venosissima* and *Chrysolaena verbascifolia*.

8-Tigloyl, 13-Ac: [142035-43-6].

$C_{22}H_{26}O_8$ M 418.443

Constit. of *V. nudiflora*, *V. noveboracensis* and *V. polyanthes*. Gum.

8-(2-Methylpropenyl), 13-Ac:

$C_{21}H_{24}O_8$ M 404.416

Constit. of *V. nudiflora*. Gum.

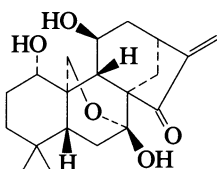
13-(3-Formylphenyl ether), 8-Ac:

$C_{24}H_{24}O_8$ M 440.449

Constit. of *C. verbascifolia*. Gum.

Bardón, A. *et al*, *Phytochemistry*, 1992, **31**, 609; 1993, **34**, 253 (*isol*, *pmr*)

7,20-Epoxy-1,7,11-trihydroxy-16-kauren-15-one E-10160



$C_{20}H_{28}O_5$ M 348.438

(ent-1 β ,11 α)-form

Rabdoetsin A

Constit. of *Rabdosia coetsa*. Needles. Mp 250-252°. [α]_D²⁵ –100° (c, 0.4 in MeOH).

11-Ac: [132185-68-3]. ent-11 α -Acetoxy-7,20-epoxy-1,11-dihydroxy-16-kauren-15-one. *Rabdoetsin D*

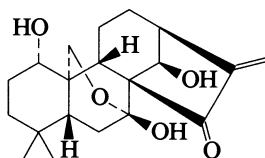
$C_{22}H_{30}O_6$ M 390.475

Constit. of *R. coetsa*. Cryst. Mp 243.5-245°. [α]_D²³ –97° (c, 1 in EtOAc).

Chen, Y. *et al*, *Acta Bot. Sin. (Engl. Transl.)*, 1990, **32**, 292 (*isol*, *pmr*, *cmr*)

Xu, Y. *et al*, *Phytochemistry*, 1993, **34**, 576 (*isol*, *pmr*, *cmr*)

7,20-Epoxy-1,7,14-trihydroxy-16-kauren-15-one E-10161



$C_{20}H_{28}O_5$ M 348.438

(ent-1 β ,7 α ,14 α)-form

1-Ac: [132185-69-4]. ent-1 β -Acetoxy-7,20-epoxy-7,14-dihydroxy-16-kauren-15-one. *Rabdoetsin B*

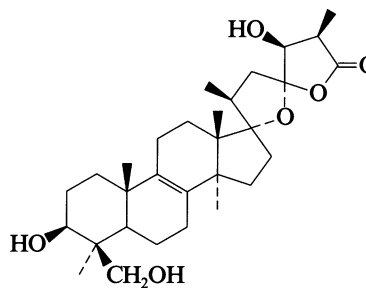
$C_{22}H_{30}O_6$ M 390.475

Constit. of *Rabdosia coetsa*. Cryst. Mp 236-238°, Mp 342-344°. [α]_D²⁵ –75° (c, 0.4 in MeOH).

Chen, Y. *et al*, *Acta Bot. Sin. (Engl. Transl.)*, 1990, **32**, 292 (*isol*, *pmr*, *cmr*)

Xu, Y. *et al*, *Phytochemistry*, 1993, **34**, 576 (*isol*, *pmr*, *cmr*)

17,23-Epoxy-3,24,29-trihydroxylanost-9-en-26,23-olide E-10162



$C_{30}H_{46}O_6$ M 502.690

(3 β ,23S,24S)-form

Aglycone from *Chionodoxa luciliae*.

3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]:

$C_{53}H_{84}O_{24}$ M 1105.232

Constit. of *C. luciliae*.

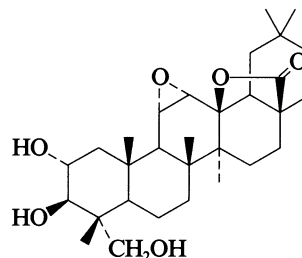
3-O-[β -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 3)-[α -L-rhamnopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]:

$C_{65}H_{104}O_{34}$ M 1429.516

Constit. of *C. luciliae*.

Adinolfi, M. *et al*, *Phytochemistry*, 1993, **34**, 773 (*isol*, *pmr*)

11,12-Epoxy-2,3,23-trihydroxy-28,13-oleananolate E-10163



$C_{30}H_{46}O_6$ M 502.690

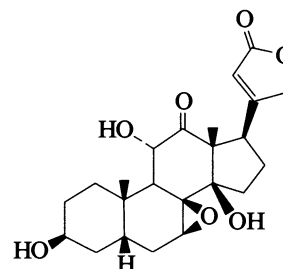
(2 α ,3 β ,11 α ,12 α ,13 β)-form

Constit. of *Anamirta cocculus*. Needles. Mp 284-286°. [α]_D²² +37.1° (c, 0.35 in CHCl₃).

Jayasinghe, L. *et al*, *Phytochemistry*, 1993, **34**, 1111 (*isol*, *pmr*, *cmr*)

7,8-Epoxy-3,11,14-trihydroxy-12-oxocard-20(22)-enolide E-10164

Updated Entry replacing E-01296



$C_{23}H_{30}O_7$ M 418.486

(3β,5β,7α,8α,11β,14β)-form

Constit. of *Cryptolepis buchanani*. Cryst. (Me₂CO). Mp 220°. Struct. diagrams in this paper are confusing.

3-O-(2-Deoxy-β-D-glucopyranoside): [111420-57-6].

Cryptosin

C₂₉H₄₀O₁₁ M 564.628

(3β,5β,7β,11α)-form [22146-03-8] Sarverogenin

Constit. of seeds of *Strophanthus sarmentosus*. Cryst. (MeOH). Mp 232-234°. [α]_D +48.5° (c, 0.16 in MeOH). Cryst. from MeOH aq. gives a lower-melting form Mp 120-188°.

▷ FH5077000.

3-Diginoside: Intermedioside

C₃₀H₄₂O₁₀ M 562.656

From *S. spp.* Cryst. (Me₂CO). Mp 125°, Mp 196°. [α]_D +19° (CHCl₃).

3-O-D-Sarmentoside: Sarveroside

C₃₀H₄₂O₁₀ M 562.656

Isol. from seeds of *S. sarmentosus*, *S. gerrardi*, *S. amboensis*, *S. courmontii*, *S. intermedius*, *S. schuchardtii* and *S. congoensis*. Fine needles (MeOH/Et₂O). Mp 123-126°, Mp 145° (double Mp). [α]_D¹⁵ +12.1° (Me₂CO).

3-O-D-Digitaloside: Panstroside

C₃₀H₄₂O₁₁ M 578.655

Isol. from seeds of many *S. spp.* Needles (MeOH). Mp 230-233°. [α]_D +30° (MeOH).

3-O-(Glucosyldigitaloside): Panstrosin

C₃₆H₅₄O₁₆ M 742.813

Isol. from *S. sp.* Amorph. [α]_D²⁰ -3.8° (CHCl₃). V. hygroscopic. Hydrol. gives panstroside and glucose.

3-O-α-L-Oleandroside: [98570-81-1]. Buchanin. Cryptanoside A

C₃₀H₄₂O₁₀ M 562.656

Constit. of *C. buchanani*. Cryst. (MeOH/Et₂O). Mp 230°. [α]_D -30° (c, 0.5 in MeOH).

3-O-[β-D-Glucopyranosyl-(1→4)-α-L-oleandroside]: [117332-57-7]. Cryptanoside C

C₃₆H₅₂O₁₅ M 724.798

Constit. of *C. buchanani*. Cryst. (EtOAc/MeOH). Mp 206-209°. [α]_D -40° (c, 1 in MeOH).

Buzas, A. *et al*, *Helv. Chim. Acta*, 1950, **33**, 465 (*isol*)

Rosselet, J.P. *et al*, *Helv. Chim. Acta*, 1951, **34**, 2143 (*isol*)

Reichstein, T. *et al*, *Helv. Chim. Acta*, 1952, **35**, 152 (*isol*)

Turcovic, I., *J. Pharm. Belg.*, 1955, **10**, 77; *CA*, 49, 15172

(*Panstrosin*)

Taylor, D.A.H. *et al*, *J. Chem. Soc. C*, 1966, 790 (*pmr*)

Führer, H. *et al*, *Helv. Chim. Acta*, 1969, **52**, 616.

Khare, M.P. *et al*, *J. Nepal Chem. Soc.*, 1983, **3**, 21; *CA*, **103**,

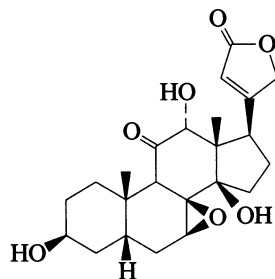
157298w (*Buchanin*)

Lardon, A. *et al*, *Helv. Chim. Acta*, 1987, **70**, 894 (*struct*)

Purushothaman, K.K. *et al*, *Rev. Latinoam. Quim.*, 1988, **19**, 28

(*Cryptanosides*)

Venkateswara, R. *et al*, *Phytochemistry*, 1989, **28**, 1203 (*isol*, *cryst struct*, *Cryptosin*)

7,8-Epoxy-3,12,14-trihydroxy-11-oxocard-20(22)-enolide E-10165

C₂₃H₃₀O₇ M 418.486

(3β,5β,7β,8β,12α)-form**Isosarverogenin**

3-O-α-L-Oleandroside: [117332-55-5]. **Cryptanoside B**

C₃₀H₄₂O₁₀ M 562.656

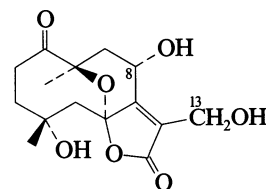
Constit. of *Cryptolepis buchanani*. Cryst. (MeOH). Mp 206-210°.

3-O-[β-D-Glucopyranosyl-(1→4)-α-L-oleandroside]: [117332-59-9]. **Cryptanoside D**

C₃₆H₅₂O₁₅ M 724.798

Constit. of *C. buchanani*.

Purushothaman, K.K. *et al*, *Rev. Latinoam. Quim.*, 1988, **19**, 28 (*isol*, *pmr*, *cmr*)

6,10-Epoxy-4,8,13-trihydroxy-1-oxo-7(11)-germacren-12,6-olide E-10166

C₁₅H₂₀O₇ M 312.319

(4α,6R,8α,10R)-form

8,13-Di-Ac: [150375-70-5]. **Spicatolide A**

C₁₉H₂₄O₉ M 396.393

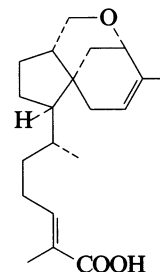
Constit. of *Pseudoelephantopus spicatus*. Cryst. Mp 163.5-166°. [α]_D²⁵ -131° (c, 0.313 in MeOH).

13-Et ether, 8-Ac: [150375-71-6]. **Spicatolide B**

C₁₉H₂₆O₈ M 382.410

Constit. of *P. spicatus*. Cryst. Mp 102-103°.

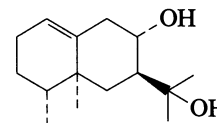
Ragasa, C.Y. *et al*, *Phytochemistry*, 1993, **33**, 627 (*isol*, *pmr*, *cmr*, *cryst struct*)

5,19-Epoxy-3,14-viscidadien-16-oic acid E-10167

C₂₀H₃₀O₃ M 318.455

Constit. of *Myoporaceae sp.* Oil. [α]_D +51.7° (c, 0.6 in CHCl₃).

Forster, P.G. *et al*, *Aust. J. Chem.*, 1986, **39**, 2111 (*isol*, *pmr*)

1(10)-Eremophilene-8,11-diol E-10168**1(10)-Valencene-8,11-diol**

C₁₅H₂₆O₂ M 238.369

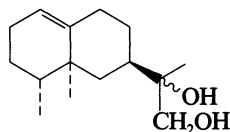
(4 α ,5 α ,8 α)-form

Constit. of *Litsea excelsa*. Cryst. (diisopropyl ether). Mp 176-178°. $[\alpha]_D^{25} +96^\circ$ (c, 0.2 in CHCl_3).

Hakim, E.H. *et al*, *Aust. J. Chem.*, 1993, **46**, 1355 (*isol, pmr, cmr, cryst struct*)

1(10)-Eremophilene-11,12-diol**Tedonodiol**

[74842-34-5]



$\text{C}_{15}\text{H}_{26}\text{O}_2$ M 238.369

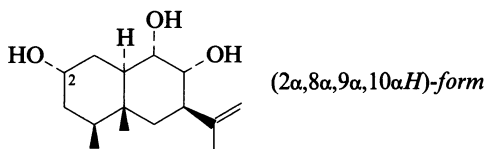
Constit. of *Tessaria dodoneifolia*.

Guerreiro, E. *et al*, *An. Asoc. Quim. Argent.*, 1979, **67**, 119 (*isol, pmr*)

11-Eremophilene-2,8,9-triol

Updated Entry replacing E-01366

Decahydro-4a,5-dimethyl-3-(1-methylethenyl)-1,2,7-naphthalenetriol, 9CI



$\text{C}_{15}\text{H}_{26}\text{O}_3$ M 254.369

(2 α ,8 α ,9 α ,10 α H)-form [53820-53-4] *Lateriflorol*

Occurs as mixt. of esters in *Euryops lateriflorus* and *E. imbricatus*. Cryst. (Et_2O /pet. ether). Mp 158°.

(8 α ,9 α ,10 β H)-form

2-Ketone: 8 α ,9 α -Dihydroxy-10 β H-eremophil-11-en-2-one

$\text{C}_{15}\text{H}_{24}\text{O}_3$ M 252.353

Occurs as mixt. of esters in *E. spp.* Oil.

(2 β ,4 α ,5 α ,8 α ,9 α ,10 β)-form [68715-84-4]

Eupestrol

9-Angeloyl:

$\text{C}_{20}\text{H}_{32}\text{O}_4$ M 336.470

Constit. of *E. spp.* Cryst. (CHCl_3). Mp 64°. $[\alpha]_D^{24} +13.2^\circ$ (c, 0.62 in MeOH).

2-Ketone, 9-angeloyl:

$\text{C}_{20}\text{H}_{30}\text{O}_4$ M 334.455

Constit. of *E. spp.* Oil. $[\alpha]_D^{24} +50.3^\circ$ (c, 4 in CHCl_3).

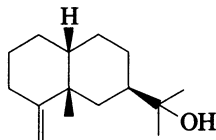
Bohlmann, F. *et al*, *Chem. Ber.*, 1974, **107**, 2730 (*isol, struct*)

Bohlmann, F. *et al*, *Phytochemistry*, 1978, **17**, 1135 (*isol, struct*)

Bohlmann, F. *et al*, *Justus Liebigs Ann. Chem.*, 1984, 1785 (*synth, struct*)

4(15)-Eremophilen-11-ol

E-10171



$\text{C}_{15}\text{H}_{26}\text{O}$ M 222.370

10 β -form [68773-87-5]

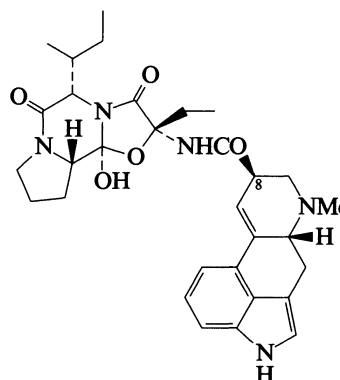
Constit. of *Euryops spp.* Oil. $[\alpha]_D^{24} +33.1^\circ$ (c, 0.32 in CHCl_3).

Bohlmann, F. *et al*, *Phytochemistry*, 1978, **17**, 1135 (*isol, pmr*)

 β -Ergoptine

[65756-55-0]

E-10172



$\text{C}_{31}\text{H}_{39}\text{N}_5\text{O}_5$ M 561.680

Isol. from ergot *Claviceps purpurea*. Mp 201-203° dec. $[\alpha]_D^{20} -163^\circ$ (c, 1.0 in CHCl_3).

8-Epimer: [65794-73-2]. β -Ergoptinine

$\text{C}_{31}\text{H}_{39}\text{N}_5\text{O}_5$ M 561.680

Synthetic. Mp 205-206° dec. $[\alpha]_D^{20} +421^\circ$ (c, 0.5 in CHCl_3).

Stadler, P.A. *et al*, *Experientia*, 1977, **33**, 1552 (β -Ergoptinine)

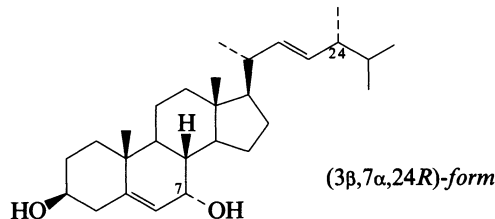
Plattner, R.D. *et al*, *J. Agric. Food Chem.*, 1983, **31**, 785 (*ms*)

Porter, J.K. *et al*, *J. Agric. Food Chem.*, 1987, **35**, 359 (*isol*)

Ergosta-5,22-diene-3,7-diol

24-Methylcholesta-5,22-diene-3,7-diol

E-10173



$\text{C}_{28}\text{H}_{46}\text{O}_2$ M 414.670

(3 β ,7 α ,24R)-form [145163-99-1]

Constit. of *Cliona copiosa*.

(3 β ,7 α ,24S)-form [145164-00-7]

Constit. of *C. copiosa*.

(3 β ,7 β ,24R)-form [69511-20-2]

Constit. of *C. copiosa*.

(3 β ,7 β ,24S)-form [99210-83-0]

Constit. of *C. copiosa* and *Haliclona oculata*. $[\alpha]_D^{20}$

-87.1° (c, 0.66 in CHCl_3).

Findlay, J.A. *et al*, *Can. J. Chem.*, 1985, **63**, 2406 (*isol, pmr, ms*)

Notaro, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1588 (*isol, pmr, ms*)

Ergosta-5,24(28)-diene-3,7-diol

E-10174

Updated Entry replacing E-01395

24-Methylenecholest-5-ene-3,7-diol

$\text{C}_{28}\text{H}_{46}\text{O}_2$ M 414.670

(3 β ,7 α)-form [99081-81-9]

Constit. of *Entandrophragma utile*, *Pseudobersama*

mossambicensis and *Stelodoryx chlorophylla*. Cryst. Mp

195°. The compds. previously assigned this struct. from

Haliclona oculata have been shown to be incorrect.

24 ξ ,28-Epoxyde: [145223-65-0]. 24,28-Epoxyergost-5-ene-

3,7-diol $\text{C}_{28}\text{H}_{46}\text{O}_3$ M 430.670

Constit. of *P. mossambicensis*. Amorph. solid. $[\alpha]_D^{20} -37^\circ$ (c, 0.27 in CHCl_3).

(3 β ,7 β)-form [99081-79-5]

Constit. of *S. chlorophylla*.

Findlay, J.A. *et al*, *Can. J. Chem.*, 1985, **63**, 2406.

Garcia, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 136 (*isol, struct, pmr, cmr*)

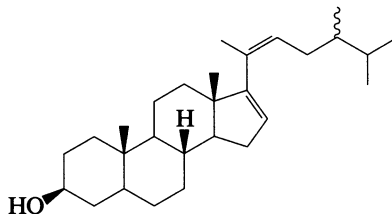
Gunatilaka, A.A.L. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1648 (*isol, pmr, cmr*)

De Riccardis, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 282 (*isol, pmr, cmr, ms*)

Ergosta-16,20(22)-dien-3-ol

E-10175

24-Methylcholesta-16,20(22)-dien-3-ol



$\text{C}_{28}\text{H}_{46}\text{O}$ M 398.671

(3 β ,24 ξ)-form [144686-41-9]

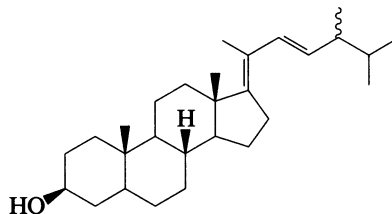
Constit. of a *Virgularia* sp. Needles (MeOH). Mp 140-142°. $[\alpha]_D^{25} -3.66^\circ$ (c, 1.31 in CHCl_3).

Anjaneyulu, A.S.R. *et al*, *J. Indian Chem. Soc.*, 1992, **69**, 150 (*isol, pmr*)

Ergosta-17(20),22-dien-3-ol

E-10176

24-Methylcholesta-17(20),22-dien-2-ol



$\text{C}_{28}\text{H}_{46}\text{O}$ M 398.671

(3 β ,24 ξ)-form [144686-42-0]

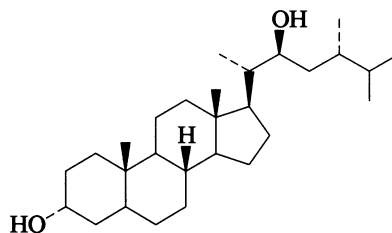
Constit. of *Virgularia* sp. Needles (MeOH). Mp 190-192°. $[\alpha]_D^{25} +45.58^\circ$ (c, 1.8 in CHCl_3).

Anjaneyulu, A.S.R. *et al*, *J. Indian Chem. Soc.*, 1992, **69**, 150 (*isol, pmr*)

Ergostane-3,22-diol

E-10177

24-Methylcholestane-3,22-diol



$\text{C}_{28}\text{H}_{50}\text{O}_2$ M 418.702

(3 α ,5 α ,22S,24S)-form [147802-34-4]

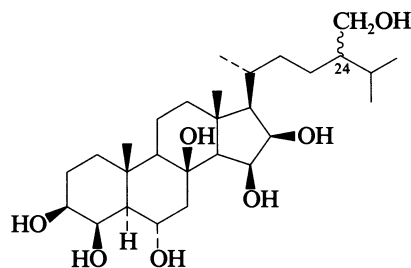
Constit. of *Abies pinsapo*. Cryst. (MeOH). Mp 234-235°. $[\alpha]_D +11.8^\circ$ (c, 0.48 in CHCl_3).

Barrero, A.F. *et al*, *Phytochemistry*, 1993, **32**, 1261 (*isol, pmr, cmr*)

Ergostane-3,4,6,8,15,16,28-heptol

E-10178

24-(Hydroxymethyl)cholestane-3,4,6,8,15,16-hexol



$\text{C}_{28}\text{H}_{50}\text{O}_7$ M 498.699

(3 β ,4 β ,5 α ,6 α ,15 β ,16 β ,24 ξ)-form

28-O-[2,4-Di-O-methyl- β -D-xylopyranosyl-(1 \rightarrow 2)- α -L-arabinofuranoside]: [107041-31-6]. **Calcitioside C₂**

$\text{C}_{40}\text{H}_{70}\text{O}_{15}$ M 790.984

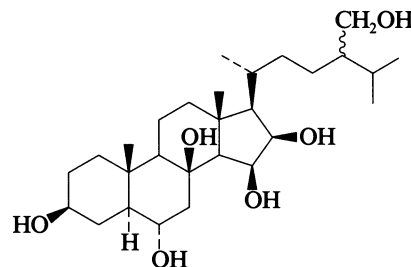
Isol. from the starfish *Culcita novaeguineae*. Mp 226-228°. $[\alpha]_D^{20} -18^\circ$ (c, 0.1 in EtOH).

Kicha, A.A. *et al*, *Khim. Prir. Soedin.*, 1986, **22**, 592; *Chem. Nat. Compd. (Engl. Transl.)*, 557.

Ergostane-3,6,8,15,16,28-hexol

E-10179

24-(Hydroxymethyl)cholestane-3,6,8,15,16-pentol



$\text{C}_{28}\text{H}_{50}\text{O}_6$ M 482.699

(3 β ,5 α ,6 α ,15 β ,16 β ,24 ξ)-form

28-O-[2,4-Di-O-methyl- β -D-xylopyranosyl-(1 \rightarrow 2)- α -L-arabinofuranoside]: [107041-32-7]. **Calcitioside C₃**

$\text{C}_{40}\text{H}_{70}\text{O}_{14}$ M 774.985

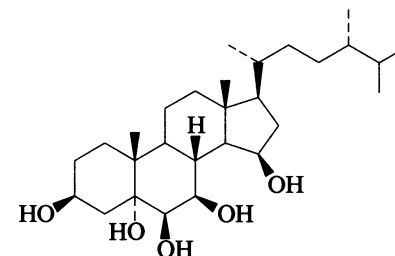
Isol. from the starfish *Culcita novaeguineae*. Mp 228-230°. $[\alpha]_D^{20} -19.1^\circ$ (c, 0.17 in EtOH).

Kicha, A.A. *et al*, *Khim. Prir. Soedin.*, 1986, **22**, 592; *Chem. Nat. Compd. (Engl. Transl.)*, 557.

Ergostane-3,5,6,7,15-pentol

E-10180

24-Methylcholestane-3,5,6,7,15-pentol



$\text{C}_{28}\text{H}_{50}\text{O}_5$ M 466.700

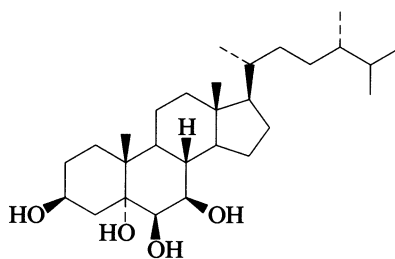
(3 β ,5 α ,6 β ,7 β ,15 β ,24S)-form [147170-09-0]

Constit. of *Lobophytum crassum*. Needles. Mp 212-215°. $[\alpha]_D +16^\circ$ (c, 0.5 in Py).

Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 87 (*isol, pmr, cmr*)

Ergostane-3,5,6,7-tetrol

E-10181

C₂₈H₅₀O₄ M 450.701**(3β,5α,6β,7β,24S)-form** [80525-48-0]

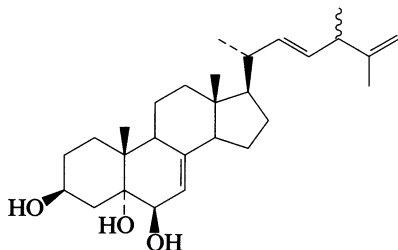
Constit. of *Lobophytum crassum*, *Anthelia glauca* and a *Xenia* sp. Needles. Mp 212-215°. [α]_D +16° (c, 0.5 in Py).

Sjastrand, U. *et al*, *Steroids*, 1981, **38**, 347 (*isol*)Kitagawa, I. *et al*, *Chem. Pharm. Bull.*, 1986, **34**, 4590 (*isol*)Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 87 (*isol*, *pmr*, *cmr*)

Ergosta-7,22,25-triene-3,5,6-triol

E-10182

24-Methylcholesta-7,22,25-triene-3,5,6-triol

C₂₈H₄₄O₃ M 428.654**(3β,5α,6β,22E,24ζ)-form****Biemnasterol**

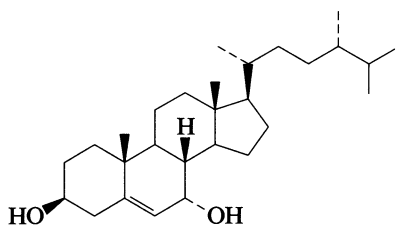
Constit. of a *Biemna* sp. Cryst. Mp 241-242°. [α]_D¹⁹ -7.6° (c, 0.43 in MeOH).

Zeng, C.-M. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 2016 (*isol*, *pmr*, *cmr*)

Ergost-5-ene-3,7-diol

E-10183

24-Methylcholest-5-ene-3,7-diol

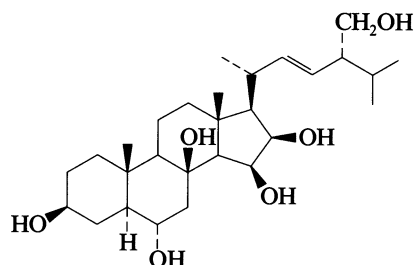
C₂₈H₄₈O₂ M 416.686**(3β,7α,24S)-form** [71486-05-0]

Constit. of *Sclerophytum* sp. Needles. Mp 210-212°. [α]_D -75° (c, 0.38 in CHCl₃).

Cheng, K.-C. *et al*, *J. Chem. Res., Synop.*, 1979, 84 (*synth*)Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 87 (*isol*, *pmr*, *cmr*)

Ergost-22-ene-3,6,8,15,16,28-hexol

E-10184

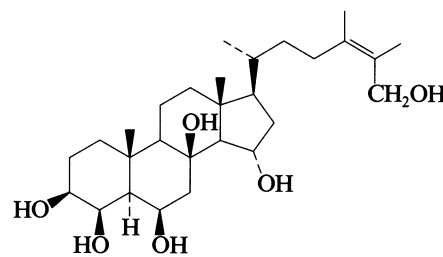
C₂₈H₄₈O₆ M 480.684**(3β,5α,6α,15β,16β,22E,24R)-form**

28-O-(6-O-Sulfo-β-D-glucopyranoside): [123154-33-6].

Pisasteroside AC₃₄H₅₈O₁₄S M 722.890Isol. from the starfish *Pisaster giganteus* (as Na salt).[α]_D +4° (c, 0.8 in MeOH).Zollo, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 693.

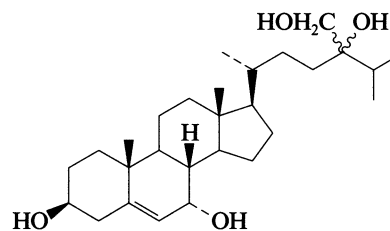
Ergost-24-ene-3,4,6,8,15,26-hexol

E-10185

C₂₈H₄₈O₆ M 480.684**(3β,4β,5α,6β,15α,24Z)-form**3-O-(2-O-Methyl-β-D-arabinofuranoside), 26-O-α-L-arabinofuranoside: [134985-04-9]. **Forbeside K**C₃₉H₆₆O₁₄ M 758.942Isol. from the starfish *Asterias forbesi*. Powder. Mp 221° dec. [α]_D -9.2° (c, 0.6 in H₂O).Findlay, J.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 428.

Ergost-5-ene-3,7,24,28-tetrol

E-10186

C₂₈H₄₈O₄ M 448.685**(3β,7α,24ζ)-form** [145223-66-1]

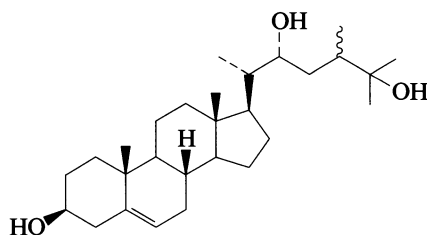
Constit. of *Pseudobersama mossambicensis*. Cryst. (EtOAc/hexane). Mp 198-200°. [α]_D²⁰ -55° (c, 0.7 in CHCl₃).

Gunatilaka, A.A.L. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1648 (*isol*, *pmr*, *cmr*)

Ergost-5-ene-3,22,25-triol

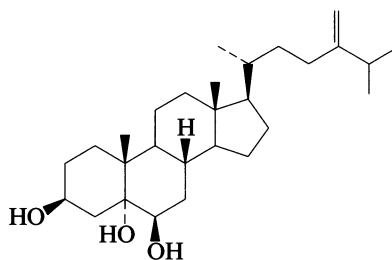
E-10187

24-Methylcholest-5-ene-3,22,25-triol

C₂₈H₄₈O₃ M 432.685**(3β,22R,24ξ)-form** [144466-07-9]Constit. of a *Lobophytum* sp. Cryst. Mp 232-233°. [α]_D²⁵ –15° (c, 0.8 in CHCl₃).Anjaneyulu, V. et al, *Indian J. Chem., Sect. B*, 1992, **31**, 708 (isol, pmr, cmr)**Ergost-24(28)-ene-3,5,6-triol**

E-10188

24-Methylenecholest-3,5,6-triol

C₂₈H₄₈O₃ M 432.685**(3β,5α,6β)-form** [59048-81-6]Constit. of *Sinularia dissecta*. Needles. Mp 241-242°. [α]_D –4° (c, 0.26 in Py).Bartolotto, M. et al, *Bull. Soc. Chim. Belg.*, 1976, **85**, 27 (isol)Kobayashi, M. et al, *Chem. Pharm. Bull.*, 1993, **41**, 87 (isol, pmr, cmr)**Erucifoline**

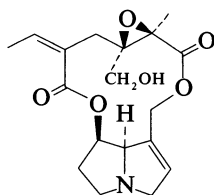
E-10189

Updated Entry replacing E-01515

12,13-Epoxy-19-hydroxysenecionan-11,16-dione, 9CI.

Alkaloid SC

[40158-95-0]

C₁₈H₂₃NO₆ M 349.383Cyclic retroncine diester. Alkaloid from *Senecio**erucifolius*, *S. aegypticus*, *S. erraticus*, *S. jacobaea* and *S. persoonii* (Compositae). Cryst. (EtOAc/EtOH). Mp 195-197°. [α]_D²² –108° (c, 0.99 in CHCl₃).**Ac: O-Acetylerucifoline**C₂₀H₂₅NO₇ M 391.420Constit. of leaves and inflorescences of *S. jacobaea*.Also present in inflorescences of *S. erucifolius* (Compositae). Needles. Mp 127-129°.**N-Oxide: Erucifoline N-oxide**C₁₈H₂₃NO₇ M 365.382Alkaloid from whole plants of *S. persoonii* (Compositae). Glassy solid. [α]_D²⁰ –49° (c, 1 in EtOH).

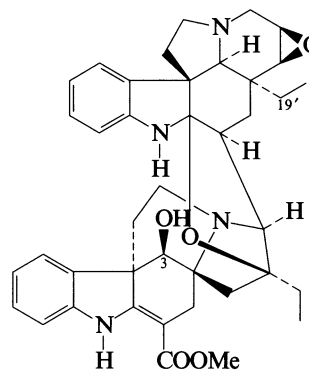
[40158-93-8, 67494-13-7]

Schröter, H.-B. et al, *Collect. Czech. Chem. Commun.*, 1960, **25**, 472 (isol)Hrbek, J. et al, *Collect. Czech. Chem. Commun.*, 1972, **37**, 3918 (cd)Sedmera, P. et al, *Collect. Czech. Chem. Commun.*, 1972, **37**, 4112 (isol, pmr, struct)Witte, L. et al, *Phytochemistry*, 1992, **31**, 559 (*O*-Acetylerucifoline)Roeder, E. et al, *Phytochemistry*, 1993, **32**, 1051 (oxide)**Ervafolidine, 9CI**

E-10190

Updated Entry replacing E-01517

[80293-76-1]

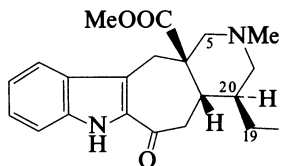
C₄₀H₄₆N₄O₅ M 662.827*Aspidosperma*-*Pseudo-aspidosperma* Type dimer. Alkaloid from the leaves of *Stenosolen heterophyllus* (Apocynaceae). Cryst. (Et₂O/hexane). Mp 240°. [α]_D²⁰ +20° (c, 0.05 in CHCl₃).**3-Epimer:** [80338-95-0]. **3-Epiervafolidine**C₄₀H₄₆N₄O₅ M 662.827Alkaloid from the leaves of *S. heterophyllus*(Apocynaceae). Cryst. (MeOH). Mp >260°. [α]_D²⁰ +52° (c, 0.5 in CHCl₃).**19'R-Hydroxy:** [80293-77-2]. **19'R-Hydroxyervafolidine**C₄₀H₄₆N₄O₆ M 678.827Alkaloid from the leaves of *S. heterophyllus*(Apocynaceae). Cryst. (Me₂CO). [α]_D²⁰ +33° (c, 0.5 in Py).**19'S-Hydroxy, 3-epimer:** [80293-78-3]. **19'S-Hydroxy-3-epiervafolidine**C₄₀H₄₆N₄O₆ M 678.827Alkaloid from the leaves of *S. heterophyllus*(Apocynaceae). Cryst. (Me₂CO/Et₂O). Mp 260°. [α]_D²⁰ +74° (c, 1 in Py).**14',15'-Deepoxy, 14',15'-didehydro:** [84716-74-5].**Ervafolidene**C₄₀H₄₆N₄O₄ M 646.828Alkaloid from *Pandaca caducifolia* (Apocynaceae).Cryst. (Me₂CO). Mp 212°. [α]_D +56° (c, 1.5 in MeOH).**14',15'-Deepoxy, 14',15'-didehydro, 3-epimer:** [84774-04-9].**Epiervafolidene**C₄₀H₄₆N₄O₄ M 646.828Alkaloid from *P. caducifolia* (Apocynaceae). Amorph.[α]_D +35° (c, 2 in MeOH).Zeches, M. et al, *J. Nat. Prod. (Lloydia)*, 1982, **45**, 707 (*Ervafolidene*, *Epiervafolidene*)Henriques, A. et al, *J. Org. Chem.*, 1982, **47**, 803 (isol, uv, ir, pmr, ms, struct)

Ervatamine**E-10191**

Updated Entry replacing E-01522

Methyl 4-ethyl-2,3,4,4a,5,6,7,12-octahydro-2-methyl-6-oxopyrido[3',4':4,5]cyclohept[1,2-b]indole-12a(1H)-carboxylate, 9CI

[33257-13-5]

 $C_{21}H_{26}N_2O_3$ M 354.448

Alkaloid from *Ervatamia orientalis* and *E. lifuana* (Apocynaceae). Na channel blocker in nerve fibres, local anaesthetic blocker. Prisms + 1MeOH (MeOH). Mp 92-98°. $[\alpha]_D -3.7^\circ$ (c, 2.1 in $CHCl_3$).

Picrate: Yellow plates (Me_2CO). Mp 236-237° dec. *B,MeI*: Yellow plates ($MeOH/Et_2O$). Mp 217-220° dec.

20-Epimer: [33495-49-7]. **20-Epiervatamine** $C_{21}H_{26}N_2O_3$ M 354.448

Alkaloid from *E. orientalis* and *E. lifuana* (Apocynaceae). Prisms (Et_2O /pet. ether). Mp 185-187° dec. $[\alpha]_D -22^\circ$ (c, 1.1 in $CHCl_3$).

19,20-Didehydro: [33228-82-9]. **19,20-Didehydroervatamine** $C_{21}H_{24}N_2O_3$ M 352.432

Alkaloid from *E. orientalis* (Apocynaceae). Prisms (Et_2O). Mp 198-200° dec. $[\alpha]_D +52^\circ$ (c, 1.0 in $CHCl_3$).

19,20-Didehydro, *N*¹-methoxy: [130263-09-1]. ***N*¹-Methoxy-19,20-dehydroervatamine** $C_{22}H_{26}N_2O_4$ M 382.458

Alkaloid from *E. malaccensis* (Apocynaceae). $[\alpha]_D -14^\circ$ (c, 0.5 in $CHCl_3$).

19,20-Didehydro, 5-oxo: **5-Oxo-19,20-dehydroervatamine** $C_{21}H_{22}N_2O_4$ M 366.416

Alkaloid from leaves of *Tabernaemontana corymbosa* (Apocynaceae).

Knox, J.R. *et al*, *Tetrahedron Lett.*, 1971, 2149 (*struct*, *Ervatamine*, *20-Epiervatamine*, *Didehydroervatamine*)

Husson, A. *et al*, *Tetrahedron*, 1973, **29**, 3095 (*synth*, *cryst struct*)

Riche, C., *Acta Crystallogr.*, Sect. B, 1974, **30**, 610 (*cryst struct*)

Knox, J.R. *et al*, *Aust. J. Chem.*, 1975, **28**, 1813, 1825 (*isol*, *uv*, *ir*, *pmr*, *ms*, *derivs*)

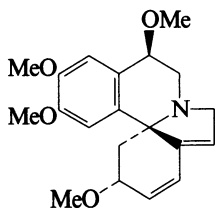
Clivio, P. *et al*, *Phytochemistry*, 1990, **29**, 2693 (*N*¹-*Methoxy-19,20-dehydroervatamine*)

Kam, T.-S. *et al*, *Phytochemistry*, 1993, **32**, 1357 (*5-Oxo-19,20-dehydroervatamine*)

Erythristemine**E-10192**

Updated Entry replacing E-01564

1,2,6,7-Tetrahydro-3,11,15,16-tetramethoxyerythrinan, 9CI
[28619-41-2]



Absolute configuration

 $C_{20}H_{25}NO_4$ M 343.422

Alkaloid from the leaves of *Erythrina lysistemon* and *E. abyssinica* and from the seeds of *E. arborescens* (Leguminosae). Pale-yellow prisms (pet. ether). Mp 127-129°. $[\alpha]_D^{22} +189^\circ$ (c, 0.4 in $CHCl_3$).

Picrate: Mp 145-150°.

2-Bromo-4,6-dinitrophenolate: Mp 144-146°.

N-Oxide: **Erythristemine N-oxide** $C_{20}H_{25}NO_5$ M 359.421

Alkaloid from flowers of *Erythrina x bidwillii* (Leguminosae). $[\alpha]_D^{25} -3.8^\circ$ (c, 0.01 in $CHCl_3$).

Ghosal, S. *et al*, *Phytochemistry*, 1972, **11**, 2101 (*isol*)

Barton, D.H.R. *et al*, *J. Chem. Soc., Perkin Trans. I*, 1973, 874, (*isol*, *uv*, *ir*, *pmr*, *ms*, *struct*)

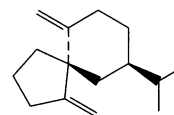
Hough, E., *Acta Crystallogr.*, Sect. B, 1976, **32**, 1154 (*cryst struct*, *abs config*)

Sarragiotto, M.H. *et al*, *Can. J. Chem.*, 1981, **59**, 2771 (*synth*, *uv*, *pmr*)

Isobe, K. *et al*, *J. Chem. Soc., Perkin Trans. I*, 1989, 1357 (*synth*)
Chawla, A.S. *et al*, *Phytochemistry*, 1992, **31**, 372 (*oxide*)

Erythrodiene**E-10193**

[138613-24-8]

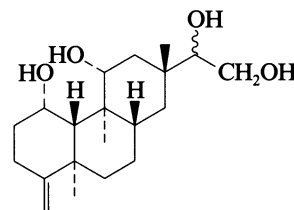
 $C_{15}H_{24}$ M 204.355

Constit. of *Erythropodium caribaeorum*. Oil. $[\alpha]_D -30.8^\circ$ (c, 0.24 in $CHCl_3$).

Pathirana, C. *et al*, *Tetrahedron Lett.*, 1993, **34**, 3371 (*isol*, *pmr*, *cmr*, *cryst struct*)

4(18)-Erythroxylylene-1,11,15,16-tetrol**E-10194**

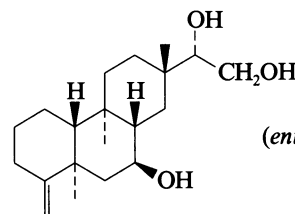
4(18)-Dolabrene-1,11,15,16-tetrol

 $C_{20}H_{34}O_4$ M 338.486**(ent-1β,11β,15ξ)-form***l*-Ac: [150036-45-6]. $C_{22}H_{36}O_5$ M 380.523Constit. of *Erythroxylylon sideroxyloides*.

Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 953 (*isol*, *pmr*, *cmr*)

4(18)-Erythroxylylene-7,15,16-triol**E-10195**

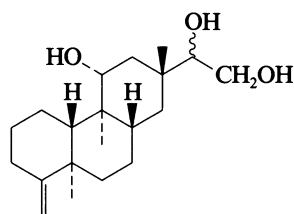
4(18)-Dolabrene-7,15,16-triol

**(ent-7α,15R)-form** $C_{20}H_{34}O_3$ M 322.487**(ent-7α,15R)-form** [150036-63-8]Constit. of *Erythroxylylum pictum*.**(ent-7α,15S)-form** [150036-62-7]Constit. of *E. pictum*.

Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 945 (*isol*, *pmr*, *cmr*)

4(18)-Erythroxylen-11,15,16-triol

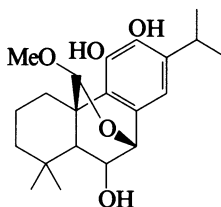
4(18)-Dolabrene-11,15,16-triol

C₂₀H₃₄O₃ M 322.487**(ent-11β,15ξ)-form** [150036-43-4]Constit. of *Erythroxylen sideroxyloides*. Amorph. [α]_D +19° (CH₂Cl₂).

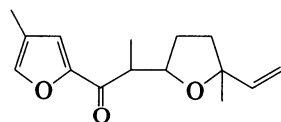
11-Ac: [150036-44-5].

C₂₂H₃₆O₄ M 364.524Constit. of *E. sideroxyloides*. Cryst. (hexane). Mp 108-112°. [α]_D -3° (CH₂Cl₂).Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 953 (*isol*, *pmr*, *cmr*)**Esquirolin D**

[136196-66-2]

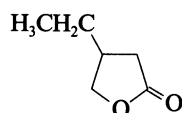
C₂₁H₃₀O₅ M 362.465Constit. of *Coleus esquirolii*. Cryst. Mp 195-196°. [α]_D³⁰ -25.7° (c, 0.6 in CHCl₃).Li, C.M. *et al*, *Chin. Chem. Lett.*, 1991, **2**, 223 (*isol*, *pmr*, *cmr*)**2-(5-Ethenyltetrahydro-5-methyl-2-furanyl)-1-(4-methyl-2-furanyl)-1-propanone, 9CI**

[148707-48-6]

C₁₅H₂₀O₃ M 248.321Constit. of *Rehmannia glutinosa*. Solid. [α]_D +12.6° (c, 0.2 in CHCl₃).Oshima, Y. *et al*, *Phytochemistry*, 1993, **32**, 233 (*isol*, *pmr*, *cmr*)**4-Ethylidihydro-2(3H)-furanone**

3-Hydroxymethylpentanoic acid γ-lactone. β-Ethyl-γ-butyrolactone. 3-Ethyl-4-butanolide

[16496-51-8]

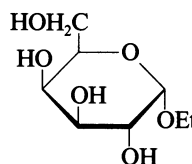
C₆H₁₀O₂ M 114.144

Constit. of Turkish tobacco.

E-10196

(±)-formOil. Bp₁₂ 99°.Surzur, J.-M. *et al*, *Bull. Soc. Chim. Fr.*, 1970, 653 (*synth*)Kametani, T. *et al*, *Chem. Pharm. Bull.*, 1985, **33**, 61 (*synth*)**Ethyl galactoside**

E-10200



α-D-Pyranose-form

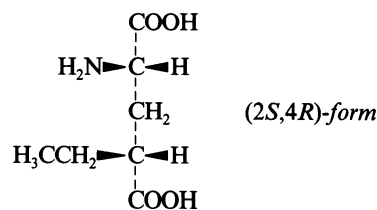
C₈H₁₆O₆ M 208.211**α-D-Pyranose-form** [15486-24-5] **Eleutheroside C**Constit. of *Acanthopanax* sp., *Adhatoda* sp., *Cassia* sp., *Clitoria* sp., *Eleutherococcus* sp., *Glycine max* and *Trigonella* sp. Cryst. (EtOH). Mp 140°. [α]_D +186° (H₂O).

Tetra-O-Ac: [31281-90-0].

C₁₆H₂₄O₁₀ M 376.360Cryst. (pentane). Mp 87-88°. [α]_D²⁰ +136° (CHCl₃).**β-D-Pyranose-form** [18997-88-1]Constit. of *T. corniculata*. Cryst. (EtOH). Mp 159-161°. [α]_D²¹ -6° (c, 2 in H₂O).Overend, W.G. *et al*, *J. Chem. Soc.*, 1962, 3429 (*synth*)Ovodov, Y.S. *et al*, *Khim. Prir. Soedin.*, 1967, **3**, 63 (*isol*)Kulshrestha, D.K. *et al*, *Chem. Ber.*, 1968, **101**, 2096 (*isol*)Bruyne, C.K. *et al*, *Carbohydr. Res.*, 1972, **25**, 59 (*synth*)Sishandri, T.R. *et al*, *Curr. Sci.*, 1973, **42**, 421 (*isol*)Schroeder, L.R. *et al*, *Carbohydr. Res.*, 1974, **37**, 368 (*synth*)Zamojski, A. *et al*, *Pol. J. Chem. (Rocz. Chem.)*, 1975, **49**, 2113 (*synth*)Van Heeswijk, W.A.R. *et al*, *Carbohydr. Res.*, 1977, **58**, 494 (*synth*)Jain, M.P. *et al*, *Phytochemistry*, 1980, **19**, 1880 (*isol*)**4-Ethylglutamic acid, 9CI**

E-10201

[20913-68-2]

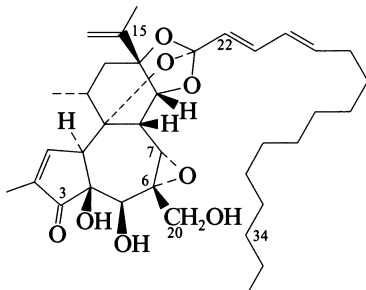
C₇H₁₃NO₄ M 175.184Unspecified isomer *isol*. from *Caesalpinia tinctoria* seed.**(2S,4R)-form** [93381-26-1]**L-erythro-form***Isol*. from the bulbs of *Tulipa gesneriana*.

[34605-38-4, 34605-39-5, 37520-44-8, 69637-75-8, 93381-27-2]

Shakhnazaryan, G.M. *et al*, *Zh. Org. Khim.*, 1968, **4**, 1914; *CA*, **70**, 29258w (*synth*)Watson, R. *et al*, *Phytochemistry*, 1980, **20**, 2213 (*isol*)Kasai, T. *et al*, *Agric. Biol. Chem.*, 1984, **48**, 2271 (*isol*, *pmr*, *cd*)

34-Ethylhuratoxin

E-10202

C₃₆H₅₂O₈ M 612.802

▷ Derivs. are exp. carcinogens and irritants.

26,27-Didehydro: [57672-63-6]. *Excoecaria factor A*₁.*Excoecaria factor B*₁. *Hippomane factor M*₂C₃₆H₅₀O₈ M 610.786Constit. of *Excoecaria agallocha*, *E. bicolor* and *Hippomane mancinella*.

26,27-Didehydro, 5,20-di-Ac: [91851-66-0].

C₄₀H₅₄O₁₀ M 694.861Constit. of *H. mancinella*.26,27,28,29-Tetrahydro: [101409-52-3]. *Excoecaria factor**A*₂. *Excoecaria factor B*₂C₃₆H₄₈O₈ M 608.770Constit. of *E. agallocha* and *E. bicolor*.

1,2,22,23,24,25-Hexahydro: [92260-58-7].

C₃₆H₅₈O₈ M 618.849Constit. of *H. mancinella*.

15,16,22,23,24,25-Hexahydro: [91851-67-1].

C₃₆H₅₈O₈ M 618.849Constit. of *H. mancinella*.

6,7-Deepoxy, 6-hydroxy, 7-chloro, 15,16,22,23,24,25-hexahydro: [91851-49-9].

C₃₆H₅₉ClO₈ M 655.310Constit. of *H. mancinella*.

6,7-Deepoxy, 6-hydroxy, 7-chloro, 15,16,22,23,24,25-hexahydro, 5,20-di-Ac: [91851-50-2].

C₄₀H₆₃ClO₁₀ M 739.384Constit. of *H. mancinella*.

5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro: [91851-47-7].

C₃₆H₅₀O₆ M 578.787Constit. of *H. mancinella*.

5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-pentadecanoyl: [91851-52-4].

C₅₁H₇₈O₇ M 803.173Constit. of *H. mancinella*.

5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-hexadecanoyl: [91851-54-6].

C₅₂H₈₀O₇ M 817.200Constit. of *H. mancinella*.

5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-octadecanoyl: [91851-56-8].

C₅₄H₈₄O₇ M 845.253Constit. of *H. mancinella*.

5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-eicosanoyl: [91851-58-0].

C₅₆H₈₈O₇ M 873.307Constit. of *H. mancinella*.

5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-docosanoyl: [91851-60-4].

C₅₈H₉₂O₇ M 901.361Constit. of *H. mancinella*.

5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-tetracosanoyl: [91851-62-6].

C₆₀H₉₆O₇ M 929.414Constit. of *H. mancinella*.

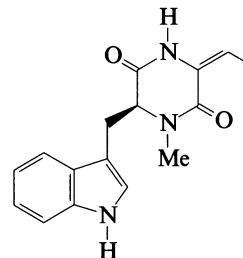
5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-hexacosanoyl: [91851-64-8].

C₆₂H₁₀₀O₇ M 957.468Constit. of *H. mancinella*.Adolf, W. *et al*, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 482 (*isol, derivs*)
Wiryachitra, P. *et al*, *Planta Med.*, 1985, 368 (*Excoecaria factors*)3-Ethylidene-6-(1*H*-indol-3-ylmethyl)-1-methyl-2,5-piperazinedione, 9CI

E-10203

Cyclo(tryptophanyldehydrobutyrine).*Tryptophandehydrobutyrine diketopiperazine. TDD*

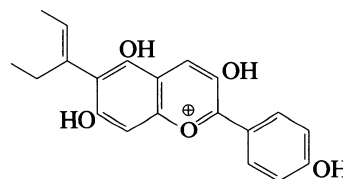
[55062-34-5]

C₁₆H₁₇N₃O₂ M 283.329*(S)-form* [75759-83-0]Prod. by *Streptomyces spectabilis* and *S. sp.* MI513-bF5.Glutathione *S*-transferase inhibitor. V. pale yellow needles. Mp 121-123°. [α]_D^{24.5} +10.0° (c, 1.1 in 95% EtOH aq.). Config. not confirmed.Kakinuma, K. *et al*, *J. Antibiot.*, 1974, **27**, 733 (*isol*)Izumiya, N. *et al*, *Pept. Chem.*, 1977, **15**, 49 (*synth*)Komagata, D. *et al*, *J. Antibiot.*, 1992, **45**, 1681 (*isol, props*)

6-(1-Ethyl-1-propenyl)-3,4',5,7-tetrahydroxyflavylium(1+)

E-10204

6-(1-Ethyl-1-propenyl)-3,5,7-trihydroxy-2-(4-hydroxyphenyl)-1-benzopyrylium

C₂₀H₁₉O₅[⊕] M 339.367 (ion)

Struct. of side-chain improbable.

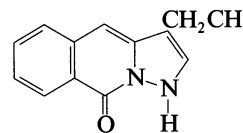
3-O-Diglucoside:

C₃₂H₃₉O₁₅[⊕] M 663.651 (ion)Constit. of the flowers of *Cassia marginata*.Adinarayana, D. *et al*, *Indian J. Chem.*, 1966, **4**, 73.3-Ethyl-1*H*-pyrazolo[1,5-b]isoquinolin-9-one

E-10205

APHE 1

[146426-35-9]

C₁₃H₁₂N₂O M 212.251

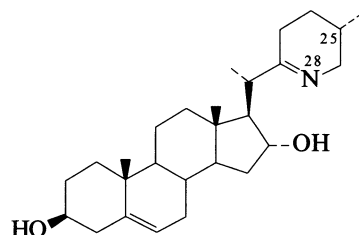
Prod. by *Streptovorticillium griseocarneum*. Shows antimicrobial and cytotoxic activities. Yellow powder. Mp 157-159°.

Fidalgo, M.L. *et al*, *J. Antibiot.*, 1992, **45**, 1759 (*isol*, *pmr*, *cmr*, *struct*, *props*)

Etioline**E-10206**

Updated Entry replacing E-01771

(3 β ,16 α)-16,28-Secosolanida-5,22(28)-diene-3,16-diol, 9CI.
22,26-Epimincholesta-5,22(N)-diene-3 β ,16 α -diol, 9CI.
Veralosidine. Veralozidine. 16 α -Hydroxyverazine
[29271-49-6]



Absolute configuration

C₂₇H₄₃NO₂ M 413.642

Identity of Etioline and Veralosidine apparently not conclusively establ. Alkaloid from *Veratrum album* ssp. *lobelianum*, *V. grandiflorum* and *Solanum havanense* (Liliaceae, Solanaceae). Mp 153-155°. [α]_D²⁶ -92.2° (c, 0.47 in EtOH).

16-O-Ac: [36506-65-7]. **Veralosinine**. 16-O-Acetyletioline. Veralozinine

C₂₉H₄₅NO₃ M 455.679

Alkaloid from *V. lobelianum* (Liliaceae). Mp 161-163°. [α]_D²⁵ -186.2° (c, 0.92 in CHCl₃).

Tri-Ac (of 5,22-diene isomer): Cryst. (Me₂CO). Mp 193-195°. [α]_D²² +13.3° (c, 0.52 in EtOH).

3-O-[β -D-Glucopyranosyl-(1→4)- β -D-glucopyranoside]: [107783-36-8]. **Etiolinine**

C₃₉H₆₃NO₁₂ M 737.926

Alkaloid from *Solanum havanense* (Solanaceae).

16-O-Ac, 3-O- β -D-Glucopyranoside: [30511-97-8].

Veralosine. Veralozine. Havanine†C₃₅H₅₅NO₈ M 617.821

Alkaloid from *V. album* ssp. *lobelianum* and from leaves of *S. havanense* (Liliaceae, Solanaceae). Mp 213-215° (186-187°). [α]_D -147.7° (MeOH), [α]_D²⁵ -110.8° (c, 1 in MeOH). Struct. of Veralosine not certain and identity of Veralosine with Havanine not establ.

22R,N-Dihydro: [65027-01-2]. **Teinemine**. (3 β ,16 α ,22 α)-16,28-Secosolanid-5-ene-3,16-diol, 9CI

C₂₇H₄₅NO₂ M 415.658

Isol. from *V. grandiflorum* terrestrial parts (Liliaceae). Plates (Me₂CO). Mp 204-209°. [α]_D²⁰ -35.8° (c, 1.19 in CHCl₃).

22R,N-Dihydro, 3-O- β -D-glucopyranoside: [123164-25-0].

IsocapsastrineC₃₃H₅₅NO₇ M 577.800

Isol. from *S. capsicastrum*. Pale yellow powder (MeOH/CHCl₃). [α]_D²⁵ +202° (c, 0.25 in Py).

22S,N-Dihydro: [65027-00-1]. **Isoteinimine**

C₂₇H₄₅NO₂ M 415.658

Isol. from *V. grandiflorum* terrestrial parts (Liliaceae). Flakes (Me₂CO). Mp 217-220°.

22S,N-Dihydro, 3-O- β -D-galactopyranoside: [107585-56-8].

Capsastrine. *Isoteinimine galactoside*C₃₃H₅₅NO₇ M 577.800

Alkaloid from root bark of *S. capsicastrum* (Solanaceae). Needles (Me₂CO). Mp 220-221°. [α]_D²¹ -25.5° (c, 0.1 in CHCl₃).

22S,N-Dihydro, 16-O-Ac: [36069-45-1]. **Muldamine**.

Alkaloid QC₂₉H₄₇NO₃ M 457.695

Alkaloid from *V. californicum* (Liliaceae). Mp 210-211°. [α]_D²⁵ -95° (c, 1 in EtOH/CHCl₃, 3:1). c-Nor-D-homosteroid struct. originally assigned.

► Weakly teratogenic to hamsters. QG1320000.

25-Epimer, 22R,28-Dihydro: [123123-41-1]. **Capsimine**

C₂₇H₄₅NO₂ M 415.658

Constit. of *Solanum capsicastrum*. Prisms (MeOH) + 2H₂O. Mp 264-267°. [α]_D²⁵ -104° (c, 0.5 in MeOH).

25-Epimer: [129938-55-2]. **25-Isoetioline**. 25-epi-Etioline

C₂₇H₄₃NO₂ M 413.642

Alkaloid from the leaves and stems of *S. canense* and *S. fraxinifolium* (Solanaceae). Mp 141-143°. [α]_D²⁰ +73.6° (c, 0.4 in CHCl₃).

25-Epimer, 22R,28-dihydro, 3-O- β -D-glucoside: **Capsimine 3-O- β -D-glucoside**

C₃₃H₅₅NO₇ M 577.800

Alkaloid from root bark of *S. capsicastrum* (Solanaceae). Powder (MeOH). Mp 214-216°. [α]_D²⁰ -68.8° (c, 0.05 in cyclohexane/EtOAc/MeOH).

Keeler, R.F., *Phytochemistry*, 1968, **7**, 303 (*Muldamine, isol*)
Khashimov, A.M. *et al*, *Khim. Prir. Soedin.*, 1970, **6**, 339; 1971, **7**, 779; *Chem. Nat. Compd. (Engl. Transl.)*, 338, 751 (*isol, pmr*)

Kaneko, K. *et al*, *Tetrahedron Lett.*, 1971, 4251 (*isol, spectra*)
Moiseeva, G.P. *et al*, *Khim. Prir. Soedin.*, 1976, **12**, 623; *Chem. Nat. Compd. (Engl. Transl.)*, 557 (*cd*)

Ripperger, H., *Pharmazie*, 1977, **32**, 537 (*isol*)

Kaneko, K. *et al*, *Phytochemistry*, 1977, **16**, 1620 (*Teinimine, Isoteinimine*)

Gaffield, W. *et al*, *Phytochemistry*, 1982, **21**, 2397 (*Muldamine, struct, pmr, ms*)

Basterrechea, M. *et al*, *Phytochemistry*, 1984, **23**, 2057 (*Havanine*)
Basterrechea, M.J. *et al*, *Rev. Cubana Quim.*, 1986, **2**, 71; *CA*, **106**, 153103t (*Etiolinine*)

Lin, C.-N. *et al*, *Phytochemistry*, 1987, **26**, 305 (*Capsicastrine*)

Lin, C.N. *et al*, *Planta Med.*, 1989, **55**, 48 (*Capsimine*)

Ripperger, H., *Phytochemistry*, 1990, **29**, 3375 (*25-Isoetioline*)

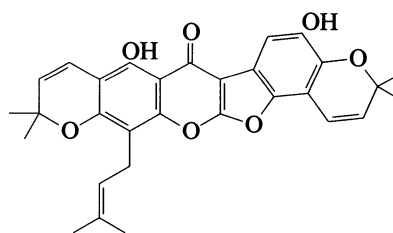
Le Thi Quyen, *et al*, *Justus Liebigs Ann. Chem.*, 1991, 143 (*synth*)

Gan, K.H. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 15 (*Capsimine 3-O-glucoside*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, MRV750.

Euchretin D**E-10207**

[137319-37-0]

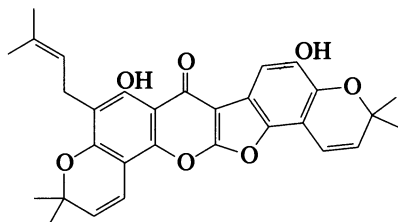
C₃₀H₂₈O₇ M 500.547

Constit. of the roots of *Euchresta formosana*. Pale yellow needles (MeOH). Mp 178-180°.

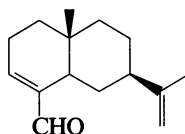
Mizuno, M. *et al*, *Phytochemistry*, 1991, **30**, 3095 (*isol*)

Euchretin E

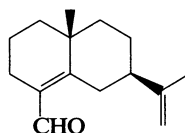
[137319-38-1]

 $C_{30}H_{28}O_7$ M 500.547Constit. of the roots of *Euchresta formosana*. Pale yellow needles (MeOH). Mp 237-239°.Mizuno, M. *et al*, *Phytochemistry*, 1991, **30**, 3095 (*isol*)**3,11-Eudesmadien-15-al**

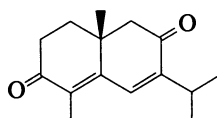
[150034-03-0]

 $C_{15}H_{22}O$ M 218.338Constit. of *Aquilaria agallocha* (agarwood). $[\alpha]_D^{30} -35.7^\circ$ (c, 0.2 in $CHCl_3$).*Carboxylic acid*: [150034-06-3]. **3,11-Eudesmadien-15-oic acid** $C_{15}H_{22}O_2$ M 234.338Constit. of *A. agallocha*. Cryst. (as Me ester). Mp 61.2° (Me ester). $[\alpha]_D^{22} -86.0^\circ$ (c, 1 in $CHCl_3$)(Me ester).Ishihara, M. *et al*, *Phytochemistry*, 1993, **33**, 1147 (*isol*, *pmr*, *cmr*)**4,11-Eudesmadien-15-al**

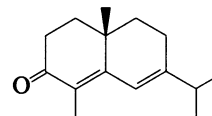
[150034-05-2]

 $C_{15}H_{22}O$ M 218.338Constit. of *Aquilaria agallocha* (agarwood). $[\alpha]_D^{30} +83.7^\circ$ (c, 0.8 in $CHCl_3$).*Carboxylic acid*: [150071-58-2]. **4,11-Eudesmadien-15-oic acid** $C_{15}H_{22}O_2$ M 234.338Constit. of *A. agallocha*. $[\alpha]_D^{27} +62.7^\circ$ (c, 0.53 in $CHCl_3$)(Me ester).Ishihara, M. *et al*, *Phytochemistry*, 1993, **33**, 1147 (*isol*, *pmr*, *cmr*)**4,6-Eudesmadiene-3,8-dione****8-Oxo- β -cyperone**

[60824-93-3]

 $C_{15}H_{20}O_2$ M 232.322Constit. of *Isocoma wrightii* and *Haplopappus freemontii*. Oil. $[\alpha]_D^{20} +390^\circ$ (c, 0.6 in $CHCl_3$).**E-10208**Bohlmann, F. *et al*, *Phytochemistry*, 1976, 411 (*isol*, *pmr*)
Bohlmann, F. *et al*, *Chem. Ber.*, 1981, **114**, 2415 (*synth*)
Jakupovic, J. *et al*, *Planta Med.*, 1986, 411 (*isol*, *pmr*, *cmr*)
Cardona, L. *et al*, *Tetrahedron*, 1993, **49**, 7829 (*synth*)**4,6-Eudesmadien-3-one****4,6-Selinadien-3-one. β -Cyperone**

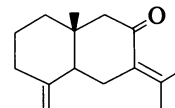
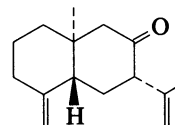
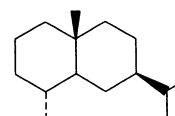
[23665-63-6]

 $C_{15}H_{22}O$ M 218.338Constit. of *Cyperus* oils. Oil. $[\alpha]_D +67.3^\circ$ (c, 0.108 in $CHCl_3$).Greene, A.E. *et al*, *Tetrahedron Lett.*, 1971, 4147 (*synth*)
Kutney, J.P. *et al*, *Can. J. Chem.*, 1980, **58**, 2641 (*synth*, *pmr*, *cmr*)**E-10209****4(15),7(11)-Eudesmadien-8-one****E-10213**

Updated Entry replacing E-01858

4(15),7(11)-Selinadien-8-one

[54707-47-0]

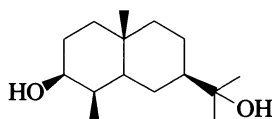
 $C_{15}H_{22}O$ M 218.338Constit. of *Atractylodes japonica* and *Peteraveria schultzii*. Antiinflammatory. Oil.*ent-form* [64314-11-0] **Ventricosin A**Constit. of *Lophozia ventricosa*. Oil. $[\alpha]_D -80.5^\circ$ (c, 1.14 in $CHCl_3$).Bohlmann, F. *et al*, *Phytochemistry*, 1978, **17**, 567 (*isol*, *pmr*)
Endo, K. *et al*, *Bull. Chem. Soc. Jpn.*, 1979, **52**, 2439 (*struct*)
Endo, K. *et al*, *Chem. Pharm. Bull.*, 1979, **27**, 2954 (*isol*)
Banerjee, A.K. *et al*, *Indian J. Chem., Sect. B*, 1983, **22**, 1259 (*synth*)Banerjee, A.K. *et al*, *J. Chem. Res., Synop.*, 1984, 284 (*synth*)
Connolly, J.D. *et al*, *Phytochemistry*, 1984, **23**, 1792 (*Ventricosin A*, *pmr*, *cmr*)**E-10210****4(15),11-Eudesmadien-8-one****E-10214****4(15),11-Selinadien-8-one** $C_{15}H_{22}O$ M 218.338*ent-form*Constit. of *Lophozia ventricosa*. Oil. $[\alpha]_D^{20} -18.9^\circ$ (c, 1.1 in $CHCl_3$).Tori, M. *et al*, *Phytochemistry*, 1993, **34**, 181 (*isol*, *pmr*, *cmr*)**E-10211****Eudesmane****Selinane****E-10215**

C₁₅H₂₈ M 208.386**4 α -form** [473-11-0]

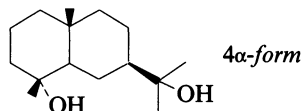
Constit. of petroleum.

4 β -form [30824-81-8]

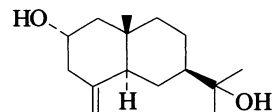
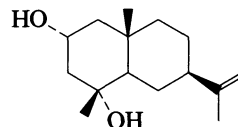
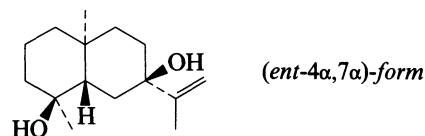
Constit. of petroleum.

Philp, R.P. *et al*, *Geochim. Cosmochim. Acta*, 1981, **45**, 1173 (*isol*)Alexander, R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1983, 226 (*isol, synth, ms*)Chen, X. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 965 (*synth*)**3,11-Eudesmanediol****E-10216**C₁₅H₂₈O₂ M 240.385**(3 β ,4 β)-form** [102490-02-8] *Auberganol*Constit. of *Solanum melongena*. Cryst. (EtOAc/hexane). Mp 173-173.5°. [α]_D²⁰ -2.7°.Murai, A. *et al*, *Bull. Chem. Soc. Jpn.*, 1982, **55**, 1191 (*synth*)Stressl, A. *et al*, *Can. J. Chem.*, 1986, **64**, 611 (*isol, pmr, cmr*)**4,11-Eudesmanediol****E-10217**

Updated Entry replacing E-01863

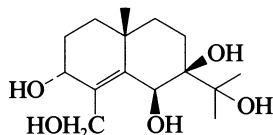
4,11-SelinanediolC₁₅H₂₈O₂ M 240.385**4 α -form** [4666-84-6] *Cryptomeridiol*. *Proximadiol*Constit. of *Cryptomeria japonica*, *Cymbopogon proximus*, *Widdringtonia dracomontana*, *Fokienia hodgkinsii*, *Callitris columellaris* and others. Antispasmodic. Cryst. Mp 138° (134.5-135.5°). [α]_D²⁰ -33.3° (CHCl₃).**(4 α ,7 β H)-form***Isodonsesquistin A*Constit. of *Isodon grandifolia* var. *atuntzensis*. Needles (Me₂CO). Mp 93-95°. [α]_D²⁶ +24.6° (c, 0.16 in Py).**(4 β ,5 β)-form***4,5-Diepicryptomeridiol*Constit. of *Pluchea arguta*. Cryst. Mp 104°. [α]_D²⁹ +66.66° (c, 0.015 in CHCl₃).**(4 β ,5 β ,10 α)-form**Constit. of *Ursinia trifida*.Irwin, M.A. *et al*, *Phytochemistry*, 1973, **12**, 849 (*isol*)Cruz, A. *et al*, *Phytochemistry*, 1973, **12**, 2549 (*isol*)Renold, W. *et al*, *Helv. Chim. Acta*, 1979, **62**, 985 (*synth*)Evans, F.E. *et al*, *Phytochemistry*, 1982, **21**, 937 (*isol*)Kawamata, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1988, **61**, 3770 (*synth*)Ahmed, V.-U. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 731 (*isol, pmr, cmr*)Jakupovic, J. *et al*, *Phytochemistry*, 1992, **31**, 863 (*isol, pmr*)Shun-Hua, W. *et al*, *Phytochemistry*, 1993, **34**, 1176*(Isodonsesquistin A)***4(15)-Eudesmene-2,11-diol****E-10218**

Updated Entry replacing E-01886

4(15)-Selinene-2,11-diolC₁₅H₂₆O₂ M 238.369**2 α -form** [21677-80-5] *Pterocarpol*Constit. of the heartwood of *Pterocarpus macrocarpus* and other *P. spp.* Cryst. (C₆H₆). Mp 104-105°. [α]_D²⁰ +39° (c, 1.05 in CHCl₃).**11-O- β -D-Glucopyranoside**: [126054-79-3]. *Atractyloside C*C₂₁H₃₆O₇ M 400.511Constit. of *Atractyloides lancea*. Powder. [α]_D¹⁹ +12.0° (c, 0.95 in MeOH).**2,11-Di-O- β -D-glucopyranoside**: [126054-80-6]. *Atractyloside D*C₂₆H₄₆O₁₂ M 550.642Constit. of *A. lancea*. Powder. [α]_D¹⁷ -15.0° (c, 0.95 in MeOH).**2-O- $[\beta$ -D-Apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]**, **11-O- β -D-glucopyranoside**: [126054-81-7]. *Atractyloside E*C₃₁H₅₄O₁₆ M 682.758Constit. of *A. lancea*. Powder. [α]_D³⁰ -39.4° (c, 1 in MeOH).**2,11-Di-O- $[\beta$ -D-apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]**: [126054-82-8]. *Atractyloside F*C₃₆H₆₂O₂₀ M 814.874Constit. of *A. lancea*. Powder. [α]_D¹⁹ -99.8° (c, 0.50 in MeOH).Bahl, C.P. *et al*, *Tetrahedron*, 1968, **24**, 6231 (*isol, struct*)Kukla, A.S. *et al*, *Indian J. Chem., Sect. B*, 1976, **14**, 905 (*abs config*)Yahara, S. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2995 (*Atractylosides*)**11-Eudesmene-2,4-diol****E-10219**C₁₅H₂₆O₂ M 238.369**(2 α ,4 α)-form** [151563-71-2]Constit. of *Nardostachys chinensis*. Oil. [α]_D²⁰ -25.5° (c, 0.44 in MeOH).Masuyama, K. *et al*, *Phytochemistry*, 1993, **34**, 567 (*isol, pmr, cmr*)**11-Eudesmene-4,7-diol****E-10220**C₁₅H₂₆O₂ M 238.369**(ent-4 α ,7 α)-form***Teucdiol A*Constit. of *Teucrium heterophyllum*. Cryst. Mp 75-77°.**(ent-4 α ,7 β)-form***Teucdiol B*

Constit. of *T. heterophyllum*. Gum.

Fraga, B.M. *et al*, *Phytochemistry*, 1993, **34**, 1083 (*isol, pmr, cmr, cryst struct, abs config*)

4-Eudesmene-3,6,7,11,15-pentol**E-10221**

$C_{15}H_{26}O_5$ M 286.367

(3 α ,6 β ,7 β)-form

11-O-(3-Acetyl-2,4-diangeloyl- β -D-fucopyranoside), 15-Ac:

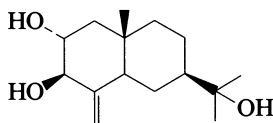
$C_{35}H_{52}O_{13}$ M 680.788

Constit. of *Calendula arvensis*.

Ahmed, A.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1821 (*isol, pmr, cmr*)

4(15)-Eudesmene-2,3,11-triol**E-10222**

Updated Entry replacing E-01902



$C_{15}H_{26}O_3$ M 254.369

(2 α ,3 β)-form [126054-89-5] **Plucheol A**

Constit. of *Pluchea indica*. Amorph. powder. $[\alpha]_D^{21} + 14.2^\circ$ (c, 0.67 in MeOH).

11-O- β -D-Glucopyranoside: [126054-83-9]. **Atractyloside G**

$C_{21}H_{36}O_8$ M 416.511

Constit. of *Atractyloides lancea*. Powder. $[\alpha]_D^{19} + 2.2^\circ$ (c, 0.045 in MeOH).

2-O- $[\beta$ -D-Apiopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], 11-O- β -D-glucopyranoside: [126054-84-0]. **Atractyloside H**

$C_{31}H_{54}O_{17}$ M 698.757

Constit. of *A. lancea*. Powder. $[\alpha]_D^{27} + 33.2^\circ$ (c, 0.5 in MeOH).

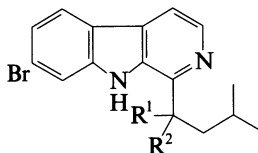
Yahara, S. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2995 (*Atractylosides*)

Uchiyama, T. *et al*, *Phytochemistry*, 1991, **30**, 655 (*isol, pmr, cmr*)

Eudistalbin A**E-10223**

7-Bromo- α -(2-methylpropyl)-9H-pyrido[3,4-b]indole-1-methanamine, 9CI

[142755-07-5]



$R^1 = H, R^2 = NH_2$

$C_{16}H_{18}BrN_3$ M 332.242

Alkaloid from the marine tunicate *Eudistoma album*.

Exhibits cytotoxicity *in vitro* against KB human buccal carcinoma. Amorph. $[\alpha]_D - 10^\circ$ (c, 0.1 in MeOH).

Adesanya, S.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 525 (*isol, w, ir, pmr, cmr, ms, struct*)

Eudistalbin B**E-10224**

1-(7-Bromo-9H-pyrido[3,4-b]indol-1-yl)-3-methyl-1-butanone, 9CI

[142755-08-6]

As Eudistalbin A, E-10223 with

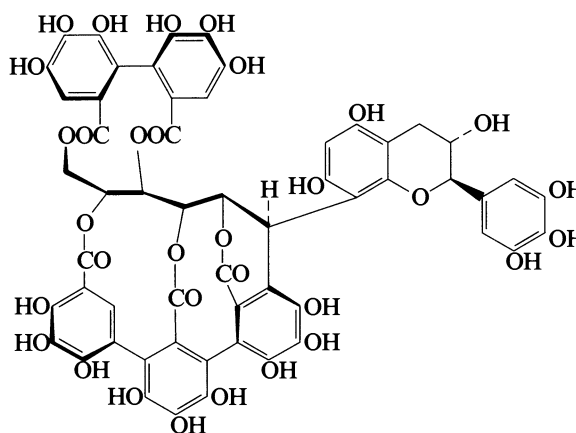
$R^1R^2 = O$

$C_{16}H_{15}BrN_2O$ M 331.211

Alkaloid from the marine tunicate *Eudistoma album*.

Amorph.

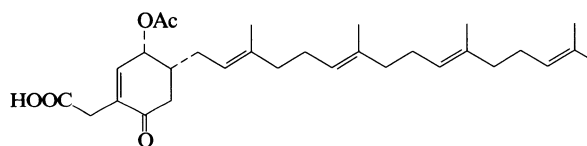
Adesanya, S.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 525 (*isol, w, ir, pmr, ms, struct*)

Eugenigradin A**E-10225**

$C_{56}H_{38}O_{32}$ M 1222.897

Derived from the bark of *Anogeissus acuminata* var. *lanceolata*.

Lin, T.-C. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1144 (*struct*)

Eunicenone B**E-10226**

$C_{30}H_{44}O_5$ M 484.675

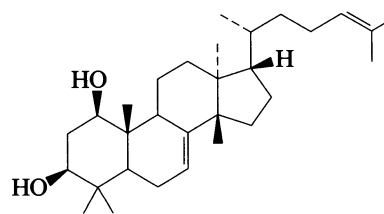
Constit. of a *Eunicea* sp. Oil. $[\alpha]_D + 101^\circ$ (c, 0.8 in $CHCl_3$).

O-De-Ac, Me ester: **Eunicenone A**

$C_{29}H_{44}O_4$ M 456.664

Constit. of a *E.* sp. Oil. $[\alpha]_D + 39.8^\circ$ (c, 1.3 in $CHCl_3$).

Shin, J. *et al*, *Tetrahedron*, 1993, **49**, 9277 (*isol, pmr, cmr, cd*)

Eupha-7,24-diene-1,3-diol**E-10227**

$C_{30}H_{50}O_2$ M 442.724

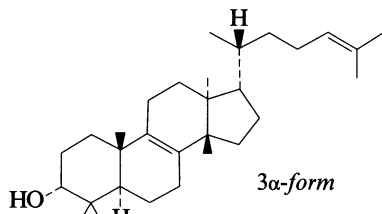
(1 β ,3 β)-form [146356-83-4]

Constit. of *Garuga pinnata*. Fluffy solid. Mp 88-90°.

Venkatraman, G. *et al*, *Phytochemistry*, 1993, **32**, 161 (*isol, pmr, cmr*)

Eupha-8,24-dien-3-ol**E-10228**

Updated Entry replacing E-01976



$C_{30}H_{50}O$ M 426.724

3 α -form [13879-06-6] *Nerifoliol*

Constit. of *Euphorbia cattimandoo*. Cryst. (MeOH). Mp 131-132°. $[\alpha]_D^{20} + 20^\circ$ (c, 3.2 in $CHCl_3$).

3-Ketone: Eupha-8,24-dien-3-one. Euphone

Cryst. (MeOH). Mp 118-119°. $[\alpha]_D^{30} + 70^\circ$ (c, 1.2 in $CHCl_3$).

3 β -form [514-47-6] *Euphol*

Constit. of *E. spp.* Cryst. Mp 116°. $[\alpha]_D^{19.5} + 32^\circ$ ($CHCl_3$).

Ac: Cryst. Mp 117°. $[\alpha]_D^{30} + 35^\circ$.

O-Cinnamoyl: **Euphol cinnamate**

$C_{39}H_{56}O_2$ M 556.870

Constit. of *E. antiquorum*. Cryst. Mp 110-111°.

Newbold, G.T. *et al*, *J. Chem. Soc.*, 1944, 249 (*isol*)

Warren, F.L. *et al*, *J. Chem. Soc.*, 1958, 179 (*struct*)

Lavie, D. *et al*, *Tetrahedron*, 1963, **19**, 2255 (*pmr*)

Anjaneyulu, V. *et al*, *J. Indian Chem. Soc.*, 1968, **45**, 404 (*Nerifoliol*)

Knight, S.A., *Tetrahedron Lett.*, 1973, 83 (*cmr*)

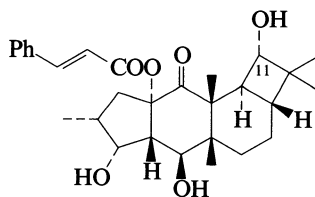
Teresa, J. de P. *et al*, *Phytochemistry*, 1987, **26**, 1767 (*cmr*)

Bartlett, W.R. *et al*, *J. Org. Chem.*, 1990, **55**, 2215 (*synth*)

Gewali, M.B. *et al*, *Phytochemistry*, 1990, **29**, 1625 (*isol, pmr, cmr*)

Euphoractine A**E-10229**

[147526-85-0]



$C_{29}H_{38}O_6$ M 482.616

Constit. of *Euphorbia micractina*. Cryst. (EtOAc). Mp 208-210°. $[\alpha]_D^{24} + 64.8^\circ$ (c, 0.5 in $CHCl_3$).

Deacyl, 11-cinnamoyl: [147526-86-1]. **Euphoractine B**

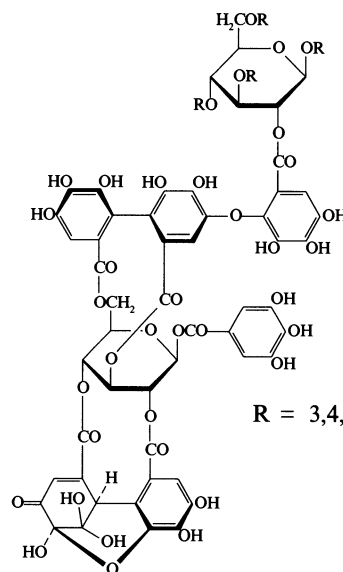
$C_{29}H_{38}O_6$ M 482.616

Constit. of *E. micractina*. Gum. $[\alpha]_D^{24} + 11.63^\circ$ (c, 0.92 in $CHCl_3$).

Shi, J.-G. *et al*, *Phytochemistry*, 1993, **32**, 208 (*isol, pmr, cmr, cryst struct*)

Euphorbin A**E-10230**

[118102-86-6]



R = 3,4,5-Trihydroxybenzoyl

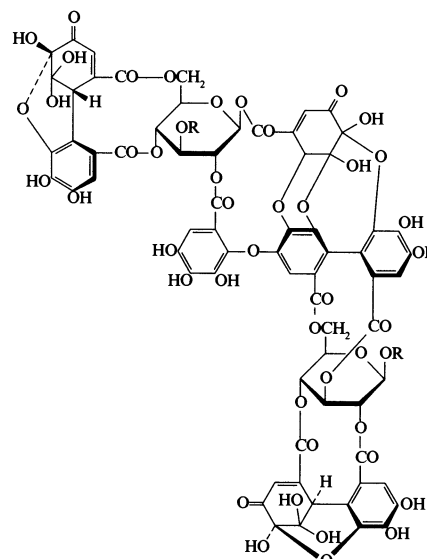
$C_{82}H_{58}O_{53}$ M 1891.328

Exhibits tautomerism with the alternative dibenzofuranoid struct. Ellagitannin constit. of *Euphorbia hirta*. Light yellow amorph. powder + $5H_2O$. $[\alpha]_D^{20} - 43^\circ$ (c, 1.0 in MeOH).

Yoshida, T. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 2940; 1991, **39**, 1137 (*isol, uv, pmr, struct, cmr*)

Euphorbin E**E-10231**

[129497-86-5]



R = 3,4,5-Trihydroxybenzoyl

$C_{82}H_{52}O_{54}$ M 1901.280

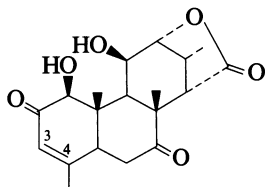
Exists as an equilibrated mixt. of four isomers (each dehydrohexahydrodiphenoyl residue is capable of tautomerism to dibenzofuranoid isomer). Ellagitannin from *Euphorbia hirta*. Amorph. powder + $8H_2O$. $[\alpha]_D^{20} - 48^\circ$ (c, 1.0 in MeOH).

Yoshida, T. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 1113 (*struct, ms, pmr, cmr*)

Eurycomalactone

E-10232

Updated Entry replacing E-02001
[23062-24-0]



$C_{19}H_{24}O_6$ M 348.395

Constit. of *Eurycoma longifolia*. Cryst. (MeOH). Mp 268-270°. $[\alpha]_D^{22} + 104.2^\circ$ (c, 0.144 in $CHCl_3$).

3,4 α -Dihydro: [90584-30-8]. *Dihydroeurycomalactone*

$C_{19}H_{26}O_6$ M 350.411

Isol. from *E. longifolia*. Cryst. (MeOH). Mp 247-248°. $[\alpha]_D + 23^\circ$.

6 α -Hydroxy: [142846-97-7]. *6 α -Hydroxyeurycomalactone*

$C_{19}H_{24}O_7$ M 364.394

Constit. of *E. longifolia*. Needles (MeOH). Mp 234-236°. $[\alpha]_D + 180.4^\circ$ (c, 0.18 in $CHCl_3$).

5,6-Didehydro: [90605-25-7]. *5,6-Dehydroeurycomalactone*

$C_{19}H_{22}O_6$ M 346.379

Constit. of *E. longifolia*. Needles. Mp 285-286°. $[\alpha]_D - 34.2^\circ$ (c, 0.38 in MeOH).

7 α -Alcohol: *7 α -Hydroxyeurycomalactone*

$C_{19}H_{26}O_6$ M 350.411

Constit. of *E. longifolia*. Needles. Mp 204-206°. $[\alpha]_D + 36.3^\circ$ (c, 0.27 in MeOH).

2 α -Alcohol, 3,4 α -dihydro, 6 α -hydroxy:

$C_{19}H_{28}O_7$ M 368.426

Constit. of *E. longifolia*. Needles (MeOH). Mp 205-207°. $[\alpha]_D + 29.3^\circ$ (c, 0.27 in MeOH).

2 α -Alcohol, 6 α -hydroxy, $\Delta^{4,18}$ -isomer:

$C_{19}H_{26}O_7$ M 366.410

Constit. of *E. longifolia*. Needles (MeOH). Mp 208-210°. $[\alpha]_D + 48.6^\circ$ (c, 0.14 in MeOH).

Le-Van-Thoi, *et al*, *J. Org. Chem.*, 1970, **35**, 1104 (*isol, struct*)

Suong, N.-N. *et al*, *Tetrahedron Lett.*, 1982, **23**, 5159 (*cryst struct*)

Bates, R.B. *et al*, *J. Org. Chem.*, 1984, **49**, 2820 (*isol*)

Itokawa, H. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 1053 (*6 α -Hydroxyeurycomalactone, 5,6-Dehydroeurycomalactone*)

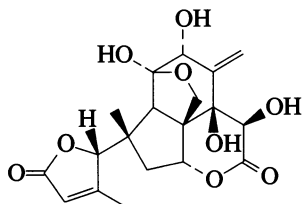
Itokawa, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1766 (*isol, pmr, cmr*)

Morita, H. *et al*, *Phytochemistry*, 1993, **33**, 691 (*7 α -Hydroxyeurycomalactone*)

Eurylactone

E-10233

[149180-47-2]



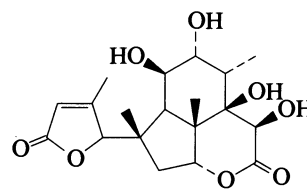
$C_{19}H_{22}O_9$ M 394.377

Constit. of *Eurycoma longifolia*. Cryst. (EtOAc). Mp 210-212°. $[\alpha]_D + 62.4^\circ$ (c, 0.17 in MeOH).

Itokawa, H. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 403 (*isol, pmr, cmr, cryst struct*)

Eurylactone A

E-10234



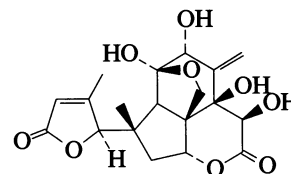
$C_{19}H_{26}O_8$ M 382.410

Constit. of *Eurycoma longifolia*. Needles (MeOH). Mp 148-150°. $[\alpha]_D + 16.7^\circ$ (c, 0.11 in MeOH).

Itokawa, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1766 (*isol, pmr, cmr*)

Eurylactone B

E-10235



$C_{19}H_{22}O_9$ M 394.377

Constit. of *Eurycoma longifolia*. Needles (EtOAc). Mp 210-212°. $[\alpha]_D + 62.4^\circ$ (c, 0.17 in MeOH).

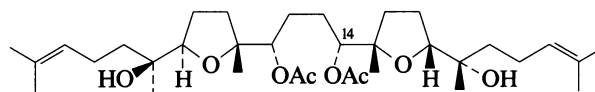
Itokawa, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1766 (*isol, pmr, cmr*)

Eurylene

E-10236

Updated Entry replacing E-02004

[134856-98-7]



$C_{34}H_{58}O_8$ M 594.827

Constit. of *Eurycoma longifolia*. Cryst. Mp 146-148°. $[\alpha]_D + 4^\circ$ (c, 0.14 in $CHCl_3$).

14-De-Ac:

$C_{32}H_{56}O_7$ M 552.790

Constit. of *E. longifolia*. Needles. Mp 142-143°. $[\alpha]_D - 23^\circ$ (c, 0.44 in $CHCl_3$).

Itokawa, H. *et al*, *Tetrahedron Lett.*, 1991, **32**, 1803 (*isol, pmr, cmr, cryst struct, abs config*)

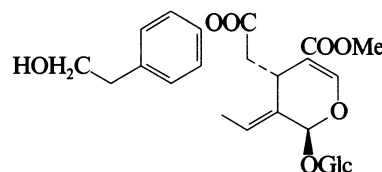
Morita, H. *et al*, *Phytochemistry*, 1993, **34**, 765 (*isol, pmr, cmr, cryst struct, abs config*)

Excelsioside

E-10237

Updated Entry replacing E-02053

Formoside



$C_{25}H_{32}O_{12}$ M 524.521

Formoside and Excelsioside appear to be identical.

Constit. of *Fraxinus excelsior* and *F. formosana*. Foam or amorph. powder. $[\alpha]_D^{20} - 159.3^\circ$ (c, 0.94 in MeOH) (-143°).

O- β -D-Glucopyranoside: *β -D-Glucopyranosylformoside*

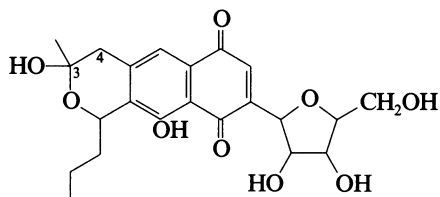
$C_{31}H_{42}O_{17}$ M 686.663

Constit. of *F. formosana*. Amorph. powder. $[\alpha]_D^{22} - 105^\circ$
(c, 0.33 in MeOH).

Damtoft, S. *et al*, *Phytochemistry*, 1992, **31**, 4197 (*isol, pmr, cmr*)
Tanahashi, T. *et al*, *Phytochemistry*, 1993, **32**, 133 (*isol, pmr, cmr*)

Exfoliamycin**E-10238**

[148084-37-1]



$C_{22}H_{26}O_9$ M 434.442

Naphthoquinone antibiotic. Related to
Naphthopyranomycin, N-00050. Prod. by *Streptomyces*
exfoliatus. Active against gram-positive bacteria.
Orange-brown solid. Mp 90° . $[\alpha]_D^{20} + 295^\circ$ (c, 0.16 in
MeOH).

3-Me ether: [148084-38-2]. **3-O-Methylexfoliamycin**

$C_{23}H_{28}O_9$ M 448.469

Prod. by *S. exfoliatus*. Active against gram-positive
bacteria. Orange-brown solid. Mp $129-131^\circ$. $[\alpha]_D^{20} + 478^\circ$
(c, 0.11 in MeOH).

3-Deoxy, 3,4-didehydro: [148084-39-3].

Anhydroexfoliamycin

$C_{22}H_{24}O_8$ M 416.427

Prod. by *S. exfoliatus*. Active against gram-positive
bacteria. Dark red solid. Mp 167° . $[\alpha]_D^{20} + 633^\circ$ (c, 0.14
in MeOH).

Potterat, O. *et al*, *J. Antibiot.*, 1993, **46**, 346 (*isol, struct*)

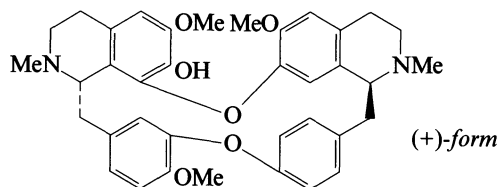
F

Fangchinoline

F-10001

Updated Entry replacing F-00025

6,6',12-Trimethoxy-2,2'-dimethylberbaman-7-ol, 9CI



$C_{37}H_{40}N_2O_6$ M 608.733

Diastereoisomeric with Thalurugosine, T-01295.

(+)-form [436-77-1]

12-O-Methylatherospermoline

Alkaloid from the roots of *Cyclea peltata*, *Triclisia subcordata* and *Stephania hernandifolia*, the tubers of *S. tetrandra*, and from the bark of *Daphnandra* sp. Dt-7 (Menispermaceae, Atherospermaceae). Shows good *in vitro* antitumour activity against HeLa cells. Cryst. (Et₂O). Mp 240-242° dec. $[\alpha]_D^{24} + 274^\circ$ (c, 0.55 in MeOH).

Isomorph: Menisidine

$C_{37}H_{40}N_2O_6$ M 572.448

Isol. from the Chinese drug "Mu-fang-chi" (*S. tetrandra*) (Menispermaceae). Prismatic needles (EtOH). Mp 176°. $[\alpha]_D^{20} + 260^\circ$. Transformed into Fangchinoline on heating at 160–70° for 5 hr., and is almost certainly a metastable form of it.

Dipicrate: Mp 186°, Mp 225°.

Me ether: see Tetrandrine, T-01149

N²-Me: [133744-51-1]. N²-Methylfangchinoline

$C_{38}H_{43}N_2O_6^{\oplus}$ M 623.767 (ion)

Alkaloid from the roots of *S. tetrandra* (Menispermaceae). Needles (Me₂CO/MeOH) (as chloride). Mp 205-208° (chloride). $[\alpha]_D + 256^\circ$ (c, 0.9 in MeOH).

2'-α-N-Oxide: [115648-96-9]. **Fenfangjine B. Fangchinoline 2'α-N-oxide**

$C_{37}H_{40}N_2O_7$ M 624.732

Alkaloid from 'Fen-Fang-Ji' (roots of *S. tetrandra*) (Menispermaceae). Prisms (EtOH). Mp 211-213°. $[\alpha]_D^{25} + 242.5^\circ$ (c, 0.640 in CHCl₃/MeOH).

2'β-N-Oxide: [115648-97-0]. **Fenfangjine C. Fangchinoline 2'β-N-oxide**

$C_{37}H_{40}N_2O_7$ M 624.732

Alkaloid from 'Fen-Fang-Ji' (roots of *S. tetrandra*) (Menispermaceae). Needles (EtOH). Mp 165-166°. $[\alpha]_D^{25} + 239.4^\circ$ (c, 0.630 in MeOH).

1,3,4-Tridehydro: [115439-62-8]. **Fenfangjine D. 1,3,4-Tridehydrofangchinolinium**

$C_{37}H_{37}N_2O_6^{\oplus}$ M 605.709 (ion)

Quaternary alkaloid from 'Fen-Fang-Ji' (roots of *S. tetrandra*) (Menispermaceae).

1,3,4-Tridehydro, hydroxide:

$C_{37}H_{38}N_2O_7$ M 622.716

Angiotensin I-converting enzyme inhibitor. Orange amorph. powder + $\frac{1}{2}$ H₂O.

1,3,4-Tridehydro, chloride:

$C_{37}H_{37}ClN_2O_6$ M 641.162

Orange granules (MeOH/Me₂CO). Mp > 300°. $[\alpha]_D^{25} + 67.8^\circ$ (c, 0.116 in MeOH).

(-)-form [10172-02-8] **Limacine**

Alkaloid from *Limacia cuspidata*, *L. oblonga*, *Cyclea barbata*, *Pycnarrhena longifolia*, *P. novoguineensis*, *Colubrina faralaotra*, *Arcangelisia flava*, *Curarea candicans* and from a *Phaeanthus* sp. (possibly *P. macropodus*) (Menispermaceae, Annonaceae). Cryst. (C₆H₆/Me₂CO). Mp 154-156°. $[\alpha]_D - 212^\circ$ (CHCl₃).

2'α-N-Oxide: **Limacine 2'α-N-oxide**

$C_{37}H_{40}N_2O_7$ M 624.732

Alkaloid from the roots of *Curarea candicans* (Menispermaceae). $[\alpha]_D - 170^\circ$ (c, 0.16 in CHCl₃).

2'β-N-Oxide: **Limacine 2'β-N-oxide**

$C_{37}H_{40}N_2O_7$ M 624.732

Alkaloid from the roots of *C. candicans* (Menispermaceae). $[\alpha]_D - 191^\circ$ (c, 0.09 in CHCl₃).

2'β-N-Oxide: **Limacine 2'β-N-oxide**

$C_{37}H_{40}N_2O_7$ M 624.732

Alkaloid from the roots of *C. candicans* (Menispermaceae). $[\alpha]_D - 154^\circ$ (c, 0.1 in CHCl₃).

N²-De-Me: **2-Norlimacine**

$C_{36}H_{38}N_2O_6$ M 594.706

Alkaloid from *Caryomene olivascens* (Menispermaceae). $[\alpha]_D - 193^\circ$ (c, 0.13 in CHCl₃).

N²-De-Me: **2'-Norlimacine**

$C_{36}H_{38}N_2O_6$ M 594.706

Alkaloid from roots of *Cyclea barbata* (Menispermaceae). $[\alpha]_D - 125^\circ$ (c, 0.13 in CHCl₃).

Me ether: see Tetrandrine, T-01149

(±)-form [38769-07-2] **Cycleadrine**

Alkaloid from the roots of *Cyclea peltata*. Also isol. from the Thai drug Krung Kha Mao (*C. barbata*) (Menispermaceae). Cryst. (Me₂CO/hexane). Mp 160-162°.

B,2HI: Cryst. (EtOH aq.). Mp 223-224°.

[132160-49-7]

Hsing, C.-Y. *et al*, *Sci. Sin. (Engl. edn.)*, 1958, **7**, 59; *CA*, **52**, 18494b (struct)

Kupchan, S.M. *et al*, *J. Pharm. Sci.*, 1961, **50**, 164, 819 (isol, *uv*, *Menisidine*)

Tomita, M. *et al*, *Yakugaku Zasshi*, 1967, **87**, 316, 793, 1560; *CA*, **67**, 32855g; **68**, 3048m, 84980j (isol)

Johns, S.R. *et al*, *Aust. J. Chem.*, 1968, **21**, 1387 (isol)

Bick, I.R.C. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1972, 2884 (isol)

Baldas, J. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1972, 592 (ms)

Kupchan, S.M. *et al*, *J. Org. Chem.*, 1973, **38**, 1846 (isol, *uv*, *pmr*, *ms*, *struct*)

Tackie, A.N. *et al*, *J. Nat. Prod. (Lloydia)*, 1974, **37**, 1 (isol, *uv*, *ir*, *pmr*, *ms*)

Yupraphat, T. *et al*, *Planta Med.*, 1974, **25**, 315 (isol)

Guinaudeau, H. *et al*, *Planta Med.*, 1975, **27**, 304; 1976, **29**, 54 (isol)

Siwon, J. *et al*, *Phytochemistry*, 1981, **20**, 323 (isol, *uv*, *pmr*, *ms*)

Verpoorte, R. *et al*, *J. Nat. Prod. (Lloydia)*, 1982, **45**, 582 (isol, *uv*, *pmr*, *ms*)

Lavault, M. *et al*, *J. Chem. Res., Synop.*, 1985, 248 (*Limacine oxides*)

Lavault, M. *et al*, *Chem. Pharm. Bull.*, 1986, **34**, 1148 (2-*Norlimacine*)

Deng, D. *et al*, *Huaxue Xuebao*, 1986, **44**, 39; *CA*, **105**, 172803s (*synth*)

Ogino, T. *et al*, *Heterocycles*, 1988, **27**, 1149 (*Fenfangjines*)

- Deng, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 993 (*N*²-Methylfangchinoline)
 Guinaudeau, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1989 (*2'*-Norlimacine)

Fenugreekine

[55069-02-8]

C₂₇ steroid sapogenin peptide ester. Isol. from the seeds of *Trigonella foenum-graecum*. Cryst. Mp 202-208°. [α]_D²⁵ +43° (c, 0.528 in AcOH).

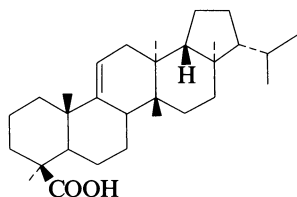
- Ghosal, S. *et al*, *Phytochemistry*, 1974, **13**, 2247 (*isol*)
 Totte, J. *et al*, *Farm. Tijdschr. Belg.*, 1983, **60**, 203 (*rev*)

9(11)-Fernen-24-oic acid

Updated Entry replacing F-00092

Davalliac acid

[3675-06-7]

C₃₀H₄₈O₂ M 440.708

Constit. of *Davallia divaricata*. Cryst. Mp 283°. [α]_D +94.2°.

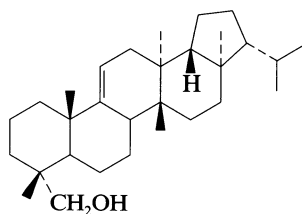
24-Alcohol: 9(11)-Fernen-24-ol. Davallol

C₃₀H₅₀O M 426.724Cryst. (hexane). Mp 177-179°. [α]_D -21.1° (CHCl₃).

- Lin, Y.-Y. *et al*, *Chem. Pharm. Bull.*, 1965, **13**, 986 (*isol*)
 Yow-Lam, O. *et al*, *Acta Crystallogr.*, 1966, **20**, 852.
 Shiojima, K. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 268 (*pmr, cmr*)

9(11)-Fernen-23-ol

[70588-14-6]

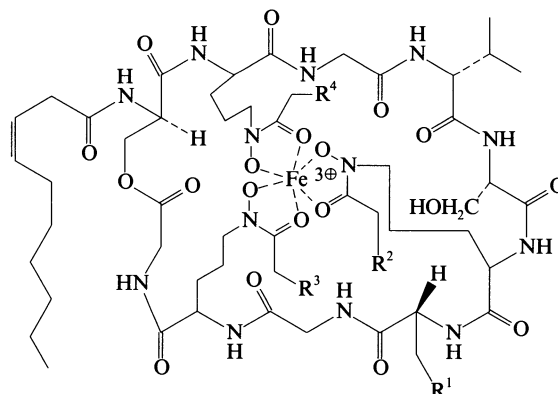
C₃₀H₅₀O M 426.724

Constit. of *Adiantum pedatum* and of the crude drug Kutsui-po (*Davallia divaricata*). Plates (Et₂O/MeOH). Mp 187-190°. [α]_D²³ -22.4° (CHCl₃).

- Tanaka, Y. *et al*, *Shoyakugaku Zasshi*, 1978, **32**, 260; *CA*, **91**, 96562n (*isol*)
 Shiojima, K. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 268 (*isol, pmr, cmr*)

Ferrocin

TAN 866. Antibiotic TAN 866

F-10005

- Ferrocin A R¹ = R² = R³ = R⁴ = H
 Ferrocin B R¹ = OH, R² = R³ = R⁴ = H
 Ferrocin C R¹ = H, R² = R³ = R⁴ = CH₃, H, H
 Ferrocin D R¹ = H, R² = R³ = R⁴ = CH₃, H, H

Cyclic depsipeptide iron-containing antibiotic complex.

Prod. by *Pseudomonas fluorescens*. Active against gram-negative bacteria. Posn. of additional Me group on Ferrocins C and D is not known.

Ferrocin A [114550-08-2]

TAN 866A. Antibiotic TAN 866A

C₅₁H₈₂FeN₁₃O₁₉ M 1237.131Red-orange powder + 5H₂O. [α]_D +170° (c, 0.1 in H₂O).**Ferrocin B** [114562-40-2]

TAN 866B. Antibiotic TAN 866B

C₅₁H₈₂FeN₁₃O₂₀ M 1253.131Red-orange powder + 6H₂O. [α]_D +164° (c, 0.1 in H₂O).**Ferrocin C** [147736-85-4]

TAN 866C. Antibiotic TAN 866C

C₅₂H₈₄FeN₁₃O₁₉ M 1251.158Red-orange powder + 4H₂O. [α]_D +187° (c, 0.1 in H₂O). Full struct. not known.**Ferrocin D** [147783-00-4]

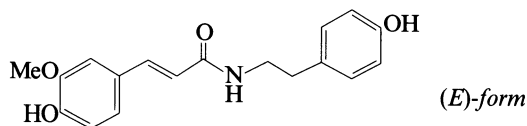
TAN 866D. Antibiotic TAN 866D

C₅₂H₈₄FeN₁₃O₁₉ M 1251.158Red-orange powder + 4H₂O. [α]_D +176° (c, 0.1 in H₂O). Full struct. not known.

Katayama, N. *et al*, *J. Antibiot.*, 1993, **46**, 65, 287 (*isol, pmr, struct, props*)

N-Feruloyltyramine

Updated Entry replacing F-00146

F-10006C₁₈H₁₉NO₄ M 313.352**(E)-form**

Alkaloid from the stems of *Tinospora tuberculata* (Menispermaceae). Plates + 1CHCl₃ (CHCl₃/MeOH). Mp 91°.

Di-O-Ac: Needles (hexane/EtOAc). Mp 157-157.5°.

Demethoxy: **Paprazine**C₁₇H₁₇NO₃ M 283.326

Alkaloid from aerial parts of *Fumaria indica* (Fumariaceae). Amorph. solid.

(Z)-form

Alkaloid from the stems of *T. tuberculata* (Menispermaceae). Pale-yellow oil.

Di-O-Ac: Oil.

Fukuda, N. *et al*, *Chem. Pharm. Bull.*, 1983, **31**, 156 (*isol, uv, ir, pmr, cmr, ms, struct*)

Atta-ur-Rahman, *Phytochemistry*, 1992, **31**, 2869 (*Paprazine*)

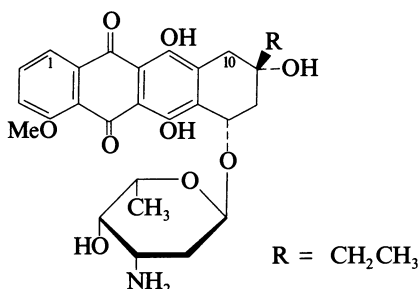
Feudomycin A

F-10007

Updated Entry replacing F-00150

β-Deoxodaunomycin

[79466-09-4]



$C_{27}H_{31}NO_9$ M 513.543

Anthracycline antibiotic. Isol. from *Streptomyces coeruleorubidus* ME 130 A4 blocked mutant.

Antitumour agent. Red amorph. powder (hexane). Mp 158-163°. $[\alpha]_D^{25} + 243^\circ$ (c, 0.044 in MeOH).

Aglycone: [65360-31-8]. **Feudomycinone A**

$C_{21}H_{20}O_7$ M 384.385

From *S. coeruleorubidus*. Red cryst. (Me₂CO). Mp 201-206°. $[\alpha]_D^{25} + 181^\circ$ (c, 0.02 in MeOH).

O-De-Me: [76034-18-9]. **13-Deoxocarminomycin I. D 788-11. Antibiotic D 788-11**

$C_{26}H_{29}NO_9$ M 499.516

From *S. peucetius carminatus*. Active against gram-positive and -negative bacteria and shows antitumour activity.

1-Hydroxy, O-de-Me: **1-Hydroxy-13-deoxocarminomycin I**

$C_{26}H_{29}NO_{10}$ M 515.516

Prod. by a *S. sp.* blocked mutant strain. Red-violet powder. Mp 170-173°. $[\alpha]_D^{25} + 43^\circ$ (c, 0.002 in MeOH).

Smith, T.H. *et al*, *J. Med. Chem.*, 1978, **21**, 280 (*synth*)

Matsuzawa, Y. *et al*, *J. Antibiot.*, 1981, **34**, 1596 (*props*)

Oki, T. *et al*, *J. Antibiot.*, 1981, **34**, 783, 1229 (*isol, struct*)

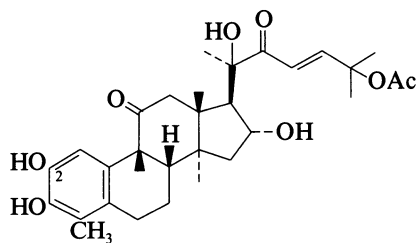
Yoshimoto, A. *et al*, *J. Antibiot.*, 1992, **45**, 1609 (*1-Hydroxy-13-deoxocarminomycin I*)

Fevicordin A

F-10008

Updated Entry replacing F-00153

[111250-02-3]



$C_{31}H_{42}O_8$ M 542.668

Constit. of seeds of *Fevillea cordifolia*. Amorph. powder. $[\alpha]_D^{21} + 15^\circ$ (c, 0.5 in MeOH).

2-O-β-D-Glucopyranoside: Fevicordin A glucoside

$C_{37}H_{52}O_{13}$ M 704.810

From *F. cordifolia* seeds. Needles (EtOAc). Mp 148°.

$[\alpha]_D^{21} - 24^\circ$ (c, 0.5 in MeOH).

2-O-β-D-Gentiobioside: Fevicordin A gentiobioside

$C_{43}H_{62}O_{18}$ M 866.952

Constit. of *F. cordifolia*. Cryst. (EtOAc). Mp 165°. $[\alpha]_D$

-38° (c, 0.5 in MeOH).

O-De-Ac, 2-O-β-D-glucopyranoside: Fevicordin C glucoside

$C_{35}H_{50}O_{12}$ M 662.773

Constit. of *F. cordifolia*. Needles (EtOAc). Mp 172-174°.

$[\alpha]_D^{21} - 33^\circ$ (c, 0.5 in MeOH).

O-De-Ac, 2-O-β-D-gentiobioside: Fevicordin C gentiobioside

$C_{41}H_{60}O_{17}$ M 824.915

Constit. of *F. cordifolia*. Amorph. powder. $[\alpha]_D^{21} - 47^\circ$ (c, 0.6 in MeOH).

23,24-Dihydro: Fevicordin B

$C_{31}H_{44}O_8$ M 544.684

Constit. of *F. cordifolia*. Amorph. powder. $[\alpha]_D^{21} + 7^\circ$ (c, 0.4 in MeOH).

23,24-Dihydro, 2-O-β-D-glucopyranoside: Fevicordin B glucoside

$C_{37}H_{54}O_{13}$ M 706.826

Constit. of *F. cordifolia*. Needles (EtOAc). Mp 143-144°.

$[\alpha]_D^{21} - 27^\circ$ (c, 0.5 in MeOH).

23,24-Dihydro, 2-O-β-D-gentiobioside: Fevicordin B gentiobioside

$C_{43}H_{64}O_{18}$ M 868.968

Constit. of *F. cordifolia*. Cryst. (CHCl₃ aq.). Mp 165-167°. $[\alpha]_D^{21} - 36^\circ$ (c, 0.4 in MeOH).

23,24-Dihydro, O-de-Ac, 2-O-β-D-glucopyranoside: Fevicordin D glucoside

$C_{35}H_{52}O_{12}$ M 664.789

Constit. of *F. cordifolia*. Needles (EtOAc). Mp 157-158°.

$[\alpha]_D^{21} - 29^\circ$ (c, 0.5 in MeOH).

23,24-Dihydro, O-de-Ac, 2-O-β-D-gentiobioside: Fevicordin D gentiobioside

$C_{41}H_{62}O_{17}$ M 826.931

Constit. of *F. cordifolia*. Amorph. powder. $[\alpha]_D^{21} - 43^\circ$ (c, 0.5 in MeOH).

22-Deoxy, O-de-Ac, 2-O-β-D-glucopyranoside: Fevicordin E glucoside

$C_{35}H_{52}O_{11}$ M 648.789

Constit. of *F. cordifolia*. Needles (EtOAc). Mp 159-161°.

$[\alpha]_D^{21} - 4^\circ$ (c, 0.3 in CHCl₃).

22-Deoxy, O-de-Ac, 2-O-β-D-gentiobioside: Fevicordin E gentiobioside

$C_{41}H_{62}O_{16}$ M 810.931

Constit. of *F. cordifolia*. Amorph. powder. $[\alpha]_D^{21} - 43^\circ$ (c, 0.5 in MeOH).

22S-Alcohol, O-de-Ac, 2-O-β-D-gentiobioside: Fevicordin F gentiobioside

$C_{41}H_{62}O_{17}$ M 826.931

Constit. of *F. cordifolia*. Amorph. powder. $[\alpha]_D^{21} - 26^\circ$ (c, 0.4 in MeOH).

Achenbach, H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1987, 441.

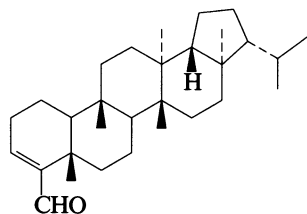
Achenbach, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1506 (*isol, pmr, cmr*)

3-Filicen-23-al

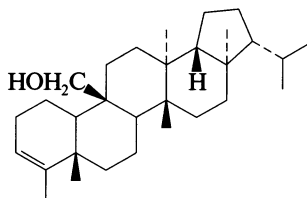
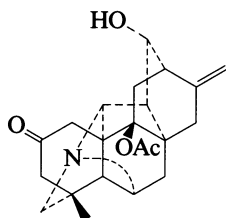
Updated Entry replacing F-00175

Filicenol

[13843-88-4]

 $C_{30}H_{48}O$ M 424.709Constit. of *Adiantum pedatum*. Cryst. Mp 272° approx.
[α]_D +74° (c, 0.5 in CHCl₃).23-Carboxylic acid: [145103-38-4]. 3-Filicen-23-oic acid.
Filicenoic acid $C_{30}H_{48}O_2$ M 440.708Constit. of *A. pedatum*. Powder (CHCl₃/MeOH). Mp > 300°.Ageta, H. et al, *Tetrahedron Lett.*, 1966, 6069.Shiojima, K. et al, *Chem. Pharm. Bull.*, 1993, **41**, 268 (*Filicenoic acid*)**3-Filicen-25-ol****Filicenol B**

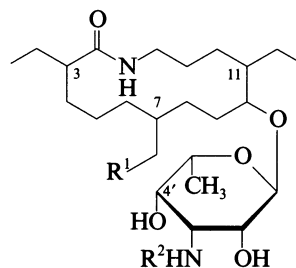
[145103-37-3]

 $C_{30}H_{50}O$ M 426.724Constit. of *Adiantum monochlamys*. Cryst. (Me₂CO). Mp 218-221°. [α]_D +57.0° (CHCl₃).Shiojima, K. et al, *Chem. Pharm. Bull.*, 1993, **41**, 262 (*isol, pmr, cmr*)**Fissumine****F-10011** $C_{22}H_{27}NO_4$ M 369.460Alkaloid from aerial parts of *Delphinium fissum* ssp. *anatolicum* (Ranunculaceae). Amorph. [α]_D²⁰ -33.8° (c, 0.4 in CHCl₃).Ulubelen, A. et al, *Phytochemistry*, 1993, **34**, 1165 (*isol, ir, pmr, cmr, ms, struct*)**F-10009****Fistulin**

[11024-36-5]

 $C_{30}H_{20}O_{10}$ M 540.482A bianthraquinone of unknown struct. Occurs as a rhamnoside in *Cassia fistula* flowers. Mp 360°.Kumar, A. et al, *Indian J. Chem.*, 1966, **4**, 460 (*isol*)**F-10012****Fluvirucin B****F-10013**

Updated Entry replacing F-00312

Fluvirucin B₁ R¹ = R² = HFluvirucin B₃ R¹ = CH₃, R² = HFluvirucin B₅ R¹ = CH₃, R² = CONHCH₂CH₂Ph

Identity of the Fluvirucins with the Sch antibiotics does not seem fully establ. There are some discrepancies in Mp's and they could be stereoisomeric. Prod. by an unidentified actinomycete. Antiviral agent.

Fluvirucin B₁ [137428-64-9]*Sch 38516. Antibiotic Sch 38516* $C_{24}H_{46}N_2O_5$ M 442.638Isol. from *Actinomadura vulgaris* ssp. *lanata*. Possesses antifungal props. Needles (MeOH). Mp 156-160° dec., Mp 262-263°. [α]_D²⁶ -6.7° (c, 0.5 in DMSO). No stereochem. assigned to Fluvirucin B₁. *Sch 38516* possesses (3R,7S,11S) config.**4'-Epimer: Antibiotic Sch 38513. Sch 38513** $C_{24}H_{46}N_2O_5$ M 442.638Prod. by *A. spp.***Fluvirucin B₃** [137120-29-7]*Sch 39185. Antibiotic Sch 39185* $C_{25}H_{48}N_2O_5$ M 456.665Needles (MeOH). Mp 263-266° (216-220° dec.). [α]_D²⁶ -5.8° (c, 0.5 in MeOH).**4'-Epimer: [137120-28-6]. Antibiotic Sch 38518. Sch 38518** $C_{25}H_{48}N_2O_5$ M 456.665Needles (MeOH). Mp 261-263° (220° dec.). [α]_D²⁶ +9.7° (c, 0.5 in MeOH).**Fluvirucin B₅** [137120-14-0] $C_{34}H_{57}N_3O_6$ M 603.841

Rods. Mp > 210° dec.

4'-Epimer: [137019-45-5]. Fluvirucin B₄ $C_{34}H_{57}N_3O_6$ M 603.841

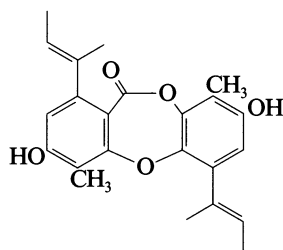
Needles. Mp > 245° dec.

[128563-23-5]

Hegde, V.R. et al, *J. Am. Chem. Soc.*, 1990, **112**, 6403 (*Sch 38516*)Naruse, N. et al, *J. Antibiot.*, 1991, **44**, 731, 741, 940 (*isol, struct, props*)Hegde, V. et al, *J. Antibiot.*, 1992, **45**, 624 (*isol*)Cooper, R. et al, *J. Antibiot.*, 1992, **45**, 633 (*isol*)

Folipastatin

[139959-71-0]

 $C_{23}H_{24}O_5$ M 380.440

Depsidone. Metab. of *Aspergillus unguis*. Phospholipase A₂ inhibitor. Needles (EtOH aq.). Mp 246-248°. Similar to Unguinol, U-00097.

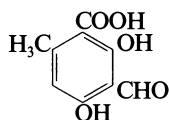
Hamano, K. *et al*, *J. Antibiot.*, 1992, **45**, 1195 (*isol, pmr, cmr, struct, pros*)

3-Formyl-2,4-dihydroxy-6-methylbenzoic acid

F-10015

2,4-Dihydroxy-6-methylisophthalaldehydic acid.
Haematommic acid. Hematommic acid

[479-25-4]

 $C_9H_8O_5$ M 196.159

Constit. of various lichens incl. *Alectoria* spp.
Haematomma spp. and *Lethariella* sp. Mp 172-173°. Common component of lichen dimeric esters eg. Atranorin, A-03028.

Me ester: [34874-90-3]. *Methyl haematommate*

 $C_{10}H_{10}O_5$ M 210.186

Constit. of various lichens incl. *Centraria* sp. *Evernia* sp., *Parmelia* spp. and *Pyxine* sp. Cryst. (EtOH aq.). Mp 146°.

Et ester: [39503-14-5]. *Ethyl haematommate*

 $C_{11}H_{12}O_5$ M 224.213

Constit. of various lichens incl. *Cetrariastrum* sp., *E. sp.*, *L. sp.* and *Parmelia* spp. Cryst. (EtOH). Mp 112-113°.

[57439-17-5, 114973-10-3, 127725-07-9]

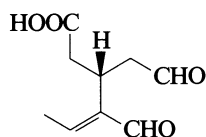
Macmillan, J.G. *et al*, *J. Org. Chem.*, 1977, **42**, 2526 (*synth*)

Sundholm, E.G. *et al*, *Chem. Scr.*, 1981, **18**, 233 (*cmr*)

Pulgarin, C. *et al*, *Helv. Chim. Acta*, 1989, **72**, 1061 (*synth*)

4-Formyl-3-(2-oxoethyl)-4-hexenoic acid

F-10016

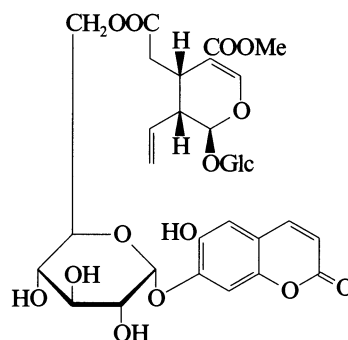
 $C_9H_{12}O_4$ M 184.191

Not named in the paper. Constit. of the juice of ripe black olives (*Olea europaea*). Amorph. powder. $[\alpha]_D^{25} + 6.5^\circ$. A secoiridoid.

Lo Scalzo, R. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 621 (*isol, pmr*)

Frachinoside

[142902-27-0]

 $C_{32}H_{38}O_{19}$ M 726.641

Isol. from *Fraxinus chinensis* leaves. Powder. $[\alpha]_D^{16} - 114.1^\circ$ (c, 0.78 in MeOH).

Kuwajima, H. *et al*, *Phytochemistry*, 1992, **31**, 1277.

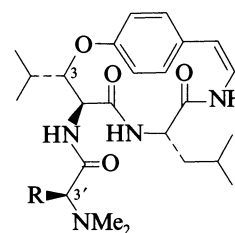
Franguloline

F-10018

Updated Entry replacing F-00403

Sanjoinine A. Daechuine S1

[19526-09-1]

R = PhCH₂- $C_{31}H_{42}N_4O_4$ M 534.697

Alkaloid from the leaves of *Rhamnus frangula*, *Euonymus europaeus*, *Melochia pyramidata* and *M. corchorifolia*, the roots of *Discaria longispina*, the bark of *Zizyphus mauritiana*, and the root bark of *Z. nummularia*. Also isol. from Sanjoin (seeds of *Z. vulgaris* var. *spinus*) and from the stem bark of the Daechu tree (*Z. jujuba* var. *inermis*) (Rhamnaceae, Celastraceae, Sterculiaceae). Shows strong sedative activity. Needles (EtOH aq. or CH₂Cl₂/MeOH/Et₂O). Mp 244° (234-236°). $[\alpha]_D^{22} - 299^\circ$ (c, 0.1 in CHCl₃).

Dihydro: Needles (MeOH aq.). Mp 285°. $[\alpha]_D^{22} - 66^\circ$ (c, 0.1 in CHCl₃).

3'-Epimer: [107494-19-9]. **Sanjoinine Ah₁**

 $C_{31}H_{42}N_4O_4$ M 534.697

Alkaloid from the seeds of *Z. vulgaris spinus*. Possible artifact.

Tschesche, R. *et al*, *Tetrahedron Lett.*, 1968, 2993, 3817; 1972, 2609 (*isol, pmr, ms, occur, struct*)

Mascaretti, O.A. *et al*, *Phytochemistry*, 1972, **11**, 1133 (*isol*)

Bishay, D.W. *et al*, *Phytochemistry*, 1973, **12**, 693 (*uv, ir, pmr, ms*)

Merkuzza, V.M. *et al*, *Phytochemistry*, 1974, **13**, 1279 (*ir, ms*)

Tschesche, R. *et al*, *Tetrahedron*, 1975, **31**, 2944 (*isol*)

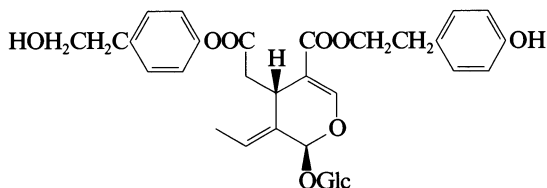
Lagarias, J.C. *et al*, *J. Nat. Prod. (Lloydia)*, 1979, **42**, 663 (*isol, ms*)

Medina, E. *et al*, *Justus Liebigs Ann. Chem.*, 1981, 538 (*isol, ir, pmr, ms*)

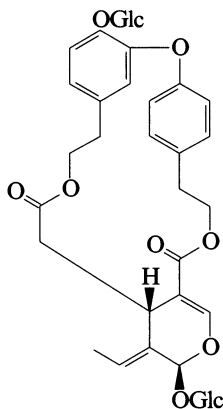
Han, B.H. *et al*, *Pure Appl. Chem.*, 1989, **61**, 443 (*isol*)

Fraxiformoside

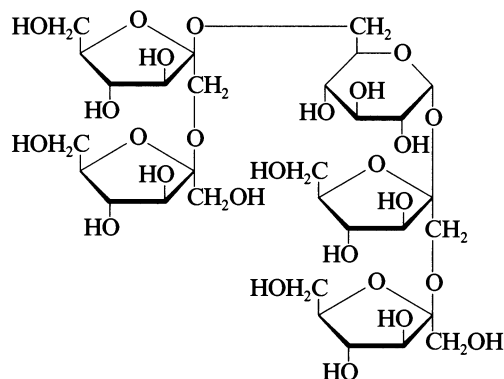
[142998-21-8]

 $C_{32}H_{38}O_{13}$ M 630.644Constit. of *Fraxinus formosana*. Amorph. powder. $[\alpha]_D^{28}$ -118° (c, 1.1 in MeOH).Tanahashi, T. *et al*, *Phytochemistry*, 1992, **31**, 2143 (*isol*, *pmr*, *cmr*)**F-10019****(3 β ,21 α)-form**

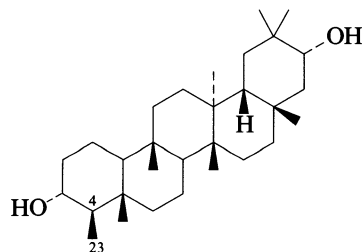
21-Ac:

 $C_{32}H_{54}O_3$ M 486.777Constit. of *E. tortilis*. Plates (CHCl₃/MeOH). Mp 276-278°. $[\alpha]_D^{30}$ $+17.0^\circ$ (c, 1 in CHCl₃).3-Ketone: Constit. of *S. australe*. Cryst. (C₆H₆). Mp 272-275°. $[\alpha]_D$ -15° (c, 2.2 in CHCl₃).3,21-Diketone: [67991-66-6]. **3,21-Friedelanedione**Isol. from *S. australe*. Cryst. (EtOH). Mp 248-250°. $[\alpha]_D$ $+115^\circ$ (c, 2.6 in CHCl₃).Clarke, B.J. *et al*, *Aust. J. Chem.*, 1970, **23**, 1651.Hui, W.H. *et al*, *Phytochemistry*, 1976, **15**, 797.Dominguez, X.A. *et al*, *Rev. Latinoam. Quim.*, 1978, **9**, 33 (*isol*, *deriv*)Gunatikal, A. *et al*, *Org. Magn. Reson.*, 1980, **14**, 415 (*cmr*)Anjaneyulu, V. *et al*, *Phytochemistry*, 1993, **33**, 647 (*isol*, *pmr*, *cmr*)**Fraxuhdoside** $C_{38}H_{46}O_{18}$ M 790.771Constit. of *Fraxinus uhdei*. Powder. $[\alpha]_D^{25}$ -56° (c, 1 in MeOH).Shen, Y.-C. *et al*, *Phytochemistry*, 1993, **33**, 1531 (*isol*, *pmr*, *cmr*)**F-10020** **β -D-Fructofuranosyl-(2 \rightarrow 1)- β -D-fructofuranosyl- β -D-fructofuranosyl-(2 \rightarrow 1)- β -D-fructofuranosyl-(2 \rightarrow 6)- α -D-glucopyranoside, 9CI****F-10022** *β -D-Fructofuranosyl-(2 \rightarrow 1)- β -D-fructofuranosyl-(2 \rightarrow 6)- α -D-glucopyranosyl-(1 \rightarrow 2)- β -D-fructofuranosyl- β -D-fructofuranoside*

[71231-05-5]

 $C_{30}H_{52}O_{26}$ M 828.725Isol. from the roots of *Asparagus officinalis*. $[\alpha]_D^{20}$ -6.6° (H₂O).Shiomi, N. *et al*, *Agric. Biol. Chem.*, 1979, **43**, 1375 (*isol*)**3,21-Friedelanediol**

Updated Entry replacing H-01834

**(3 α ,21 α)-form** $C_{30}H_{52}O_2$ M 444.740**(3 α ,21 α)-form**Needles. Mp 308-310°. $[\alpha]_D^{30}$ $+11.0^\circ$ (c, 1 in CHCl₃).

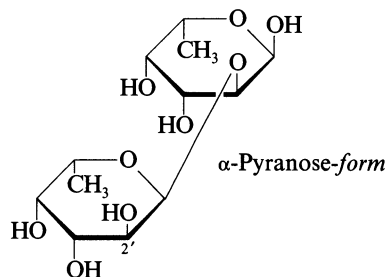
Di-Ac:

 $C_{34}H_{56}O_4$ M 528.814Constit. of *Euphorbia tortilis*. Plates (CHCl₃/MeOH). Mp 299-301°. $[\alpha]_D^{30}$ $+30^\circ$ (c, 0.5 in CHCl₃).

3-Ketone: 21-Hydroxy-3-friedelanone

 $C_{30}H_{50}O_2$ M 442.724Constit. of *Siphonodon australe*. Cryst. Mp 264-268°. $[\alpha]_D$ -32° (c, 2.6 in CHCl₃).4,23-Didehydro, 3-ketone: [59995-79-8]. **21 α -Hydroxy-4(23)-friedelen-3-one** $C_{30}H_{48}O_2$ M 440.708Constit. of *Phyllanthus reticulatus*. Cryst. (MeOH). Mp 265-266°. $[\alpha]_D$ $+53^\circ$ (CHCl₃).**F-10021****2-O- α -L-Fucopyranosyl-L-fucose****F-10023***2-O-(6-Deoxy- α -L-galactopyranosyl)-6-deoxy-L-galactose, 9CI*

[20237-62-1]

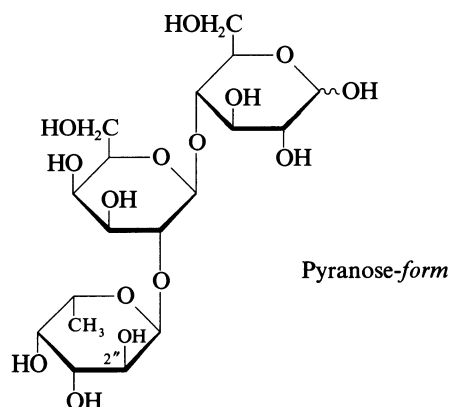
 $C_{12}H_{22}O_9$ M 310.300Isol. from the partial acetolysate of the seaweed polysaccharide Fucoidin. Cryst. (EtOH). Mp 193-195° (185-190°). $[\alpha]_D^{25}$ -168.5° (c, 0.78 in H₂O). **α -Pyranose-form**

Benzyl glycoside, 2'-benzyl: $C_{26}H_{34}O_9$ M 490.549
Cryst. (EtOH). Mp 186-188°. $[\alpha]_D^{25}$ –186° (c, 0.77 in MeOH).*Benzyl glycoside, 2'-benzyl, 3,4-O-isopropylidene:* $C_{29}H_{38}O_9$ M 530.614
Cryst. (EtOH). Mp 143-145°. $[\alpha]_D^{25}$ –218° (c, 1.4 in $CHCl_3$).*Me glycoside: [71731-83-4]. Methyl 2-O- α -L-fucopyranosyl- α -L-fucopyranoside* $C_{13}H_{24}O_9$ M 324.327
Cryst. (EtOH). Mp 190-192°. $[\alpha]_D^{25}$ –227° (c, 0.57 in MeOH).*Me glycoside, 2'-benzyl: [71731-82-3].* $C_{20}H_{30}O_9$ M 414.452
Cryst. (EtOH). Mp 192-194°. $[\alpha]_D^{25}$ –201.2° (c, 1.03 in MeOH).*Me glycoside, 2'-benzyl, 3,4-O-isopropylidene: [71731-87-8].* $C_{23}H_{34}O_9$ M 454.516
Mp 155-157°. $[\alpha]_D^{25}$ –216° (c, 0.79 in $CHCl_3$). **β -Pyranose-form***Me glycoside: Methyl 2-O- α -L-fucopyranosyl- β -L-fucopyranoside* $C_{13}H_{24}O_9$ M 324.327
Cryst. (EtOH). Mp 210-212°. $[\alpha]_D^{25}$ –91.4° (c, 0.70 in MeOH).*Me glycoside, 2'-benzyl: Cryst. (EtOH). Mp 193-195°. $[\alpha]_D^{25}$ –100° (c, 0.5 in MeOH).*O'Neill, A.N., *J. Am. Chem. Soc.*, 1954, **76**, 5074.Cote, R.H., *J. Chem. Soc.*, 1959, 2248 (*isol*)Percival, E., *Carbohydr. Res.*, 1967, **4**, 441 (*glc*)Flowers, H.M., *Carbohydr. Res.*, 1979, **74**, 177 (*synth, pmr, deriv*) **α -L-Fucopyranosyl-(1→2)- β -D-galactopyranosyl-(1→4)-D-glucose, 9CI, 8CI**

F-10024

2'-Fucosyllactose

[41263-94-9]

 $C_{18}H_{32}O_{15}$ M 488.442Present in the free state in human milk. Mp 230-231°. $[\alpha]_D$ –53.5° → –57.5° (72h) (c, 2.0 in H_2O).*Phenylosazone: Mp 217°. $[\alpha]_D$ –29° (H_2O).**Tosylphenylosazone: Mp 205°. $[\alpha]_D$ –73°.***Pyranose-form [14843-73-3]***2'',3'',4''-Tribenzyl: [77680-93-4].* $C_{39}H_{50}O_{15}$ M 758.815
Cryst. (MeOH/Et₂O). Mp 122-125°. $[\alpha]_D$ –41° (c, 0.9 in $CHCl_3$ /MeOH 2:1).Kuhn, R. *et al*, *Chem. Ber.*, 1955, **88**, 1135; 1956, **89**, 2513 (*isol*)Malpress, F.H. *et al*, *Biochem. J.*, 1958, **68**, 708.Biswas, M. *et al*, *Biopolymers*, 1980, **19**, 1555 (*conformn*)Abbas, S.A. *et al*, *Carbohydr. Res.*, 1981, **88**, 51.**Fulcin**

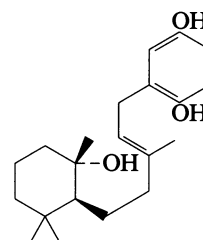
F-10025

[137182-25-3]

H-Phe-D-Asn-Glu-Phe-Val-NH₂Isol. from the central ganglia of the African giant snail *Achatina fulica*. Neuropeptide which potentiates tetanic contraction of the penis retractor muscle of *A. fulica* at very low concentrations.Ohta, N. *et al*, *Biochem. Biophys. Res. Commun.*, 1991, **178**, 486 (*isol*)**Fulvanin 2**

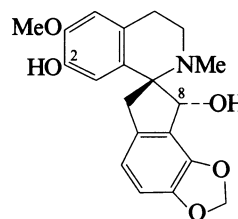
F-10026

[149298-03-3]

 $C_{21}H_{32}O_3$ M 332.482Constit. of *Reniera fulva*.Casapullo, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 527 (*isol, pmr, cmr*)**Fumaritine**

F-10027

Updated Entry replacing F-00515

3',4',6,8-Tetrahydro-6'-methoxy-2'-methylspiro[7H-indeno[4,5-d]-1,3-dioxole-7,1'(2'H)-isoquinoline]-7',8-diol, 9CI

Probable absolute configuration

 $C_{20}H_{21}NO_5$ M 355.390**Natural-form** [24181-78-0]Alkaloid from *Fumaria officinalis*, the roots of *F. schleicheri* and the leaves of *F. muralis* ssp. *boraiei* (Fumariaceae). Needles (dry Et₂O). Mp 157°. Opt. rotn. not recorded.*B,HCl: Mp 224°.**B,HBr: Mp 219°.**N-Oxide: [60604-88-8]. Fumaritine N-oxide. Alkaloid F_k-5* $C_{20}H_{21}NO_6$ M 371.389Alkaloid from *F. kralikii* and *F. officinalis* (Fumariaceae). Cryst. (C_6H_6 /MeOH). Mp 204°.*8-Ac: see Fumarophycine, F-00518**N-Me: [82054-20-4]. Fumaritine N-methosalt* $C_{21}H_{24}NO_5^{\oplus}$ M 370.424 (ion)Tentatively identified as alkaloid in leaves of *F. muralis* ssp. *boraiei* (Fumariaceae). No phys. data recorded.*Me ether: see Fumaricine, F-00510**N-De-Me: Norfumaritine* $C_{19}H_{19}NO_5$ M 341.363

Alkaloid from leaves of *F. kralikii* (Fumariaceae).

Amorph. $[\alpha]_D^{25} -16^\circ$ (c, 0.12 in CHCl_3).

N-Oxide, 8-deoxy: **Papracinine**

$\text{C}_{20}\text{H}_{21}\text{NO}_5$ M 355.390

Alkaloid from aerial parts of *F. indica* (Fumariaceae).

Amorph. solid. $[\alpha]_D +23^\circ$ (MeOH).

(±)-**form** [32420-39-6]

Synthetic. Prisms + $0.5\text{H}_2\text{O}$ (MeOH/Et₂O). Mp 193-194°.

Platonova, T.F. *et al*, *J. Gen. Chem. USSR (Engl. Transl.)*, 1956,

26, 181; *CA*, 50, 13960a-b (isol)

Manske, R.H.F., *Can. J. Chem.*, 1969, 47, 1103 (isol)

MacLean, D.B. *et al*, *Can. J. Chem.*, 1969, 47, 3593 (pmr, ms, struct)

Yu, C.K. *et al*, *Can. J. Chem.*, 1971, 49, 3025 (ms)

Kishimoto, T. *et al*, *J. Chem. Soc. C*, 1971, 1644 (synth, ir, pmr, ms)

Kiryakov, Kh. *et al*, *Dokl. Bolg. Akad. Nauk*, 1976, 29, 677; *CA*, 85, 119633d (isol, oxide)

Kiryakov, H.G. *et al*, *Can. J. Chem.*, 1979, 57, 53 (ir, pmr, cmr, ms, Fumaritine, *N*-oxide)

Hussain, S.F. *et al*, *Tetrahedron Lett.*, 1980, 21, 1909 (pmr, cd, abs config)

Loukis, A. *et al*, *J. Pharm. Pharmacol., Suppl.*, 1981, 33, 16P (isol, Fumaritine, *N*-Me salt)

Colton, M.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1985, 48, 846 (Norfumaritine)

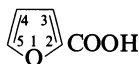
Atta-ur-Rahman, *et al*, *Phytochemistry*, 1992, 31, 2869 (Papracinine)

2-Furancarboxylic acid

F-10028

Pyromucic acid. α -Furoic acid

[88-14-2]



$\text{C}_5\text{H}_4\text{O}_3$ M 112.085

Isol. from roots of *Phaseolus vulgaris*. Leaflets (H_2O).

Mod. sol. cold H_2O , v. sol. hot. Mp 133-134°. Bp 230-232°, Bp₂₀ 141-144°.

▷ LV1763000.

Me ester: [611-13-2].

$\text{C}_6\text{H}_6\text{O}_3$ M 126.112

Bp 181.3°.

▷ LV1950000.

Et ester: [614-99-3].

$\text{C}_7\text{H}_8\text{O}_3$ M 140.138

Mp 34°. Bp₇₆₆ 195°, Bp₉₅ 128°.

▷ LV1850000.

Anhydride: [615-08-7].

$\text{C}_{10}\text{H}_6\text{O}_5$ M 206.154

Needles (EtOH). Mp 73°. Bp 325° part. dec.

Chloride:

$\text{C}_5\text{H}_3\text{ClO}_2$ M 130.530

Mp -2°. Bp 173°, Bp₁₀ 66°. Stable to water.

▷ Highly irritant.

Amide: [609-38-1]. 2-Furancarboxamide

$\text{C}_5\text{H}_5\text{NO}_2$ M 111.100

Mp 142-143°.

Hydrazide: [3326-71-4]. 2-Furoylhydrazine

$\text{C}_5\text{H}_6\text{N}_2\text{O}_2$ M 126.115

Anal. reagent for carbohydrates. Cryst. (C_6H_6). Mp 78°.

▷ LV1925000.

Nitrile: [617-90-3]. 2-Cyanofuran. 2-Furancarbonitrile, 9CI

$\text{C}_5\text{H}_3\text{NO}$ M 93.085

Bp₇₃₈ 146°.

Org. Synth., Coll. Vol., 4, 1963, 493 (synth)

Cook, M.J. *et al*, *Tetrahedron*, 1968, 24, 4501 (use, hydrazide)

Takasugi, M. *et al*, *Chem. Lett.*, 1973, 445.

Chadwick, D.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1974, 1141

(pmr)

Gronowitz, S. *et al*, *Chem. Scr.*, 1975, 7, 211 (pmr, cmr)

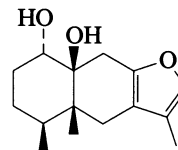
Lever, M. *et al*, *Anal. Biochem.*, 1984, 139, 205 (use, hydrazide)

Murahashi, S.-I. *et al*, *J. Org. Chem.*, 1986, 51, 898 (synth, ir, pmr, ms)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, EKM000, FQF000, MKH600.

Furanoeremophilane-1,10-diol

F-10029



$\text{C}_{15}\text{H}_{22}\text{O}_3$ M 250.337

(1 α ,10 β)-**form**

1-Tigloyl: [68773-23-9].

$\text{C}_{20}\text{H}_{28}\text{O}_4$ M 332.439

Constit. of *Euryops* spp. Oil.

1-(3-Methyl-2-pentenyl): [68773-81-9].

$\text{C}_{21}\text{H}_{30}\text{O}_4$ M 346.466

Constit. of *E.* spp. Oil.

[68773-82-0]

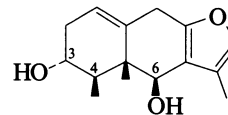
Bohlmann, F. *et al*, *Phytochemistry*, 1978, 17, 1138 (isol, pmr)

Furanoeremophil-1(10)-ene-3,6-diol

F-10030

Updated Entry replacing F-00575

3,6-Dihydroxyfuranoeremophil-1(10)-ene



$\text{C}_{15}\text{H}_{20}\text{O}_3$ M 248.321

(3 α ,6 β)-**form** [68773-29-5]

3 α ,6 β -Dihydroxyeuryopsin

Oil.

(3 β ,6 β)-**form**

Cryst. (THF/petrol). Mp 231°.

6-Propanoyl, 3-Ac:

$\text{C}_{20}\text{H}_{26}\text{O}_5$ M 346.422

Constit. of *Senecio subumbellatus*.

6-(2-Methylpropanoyl), 3-Ac:

$\text{C}_{21}\text{H}_{28}\text{O}_5$ M 360.449

Constit. of *S. subumbellatus*.

6-(3-Methylbutanoyl):

$\text{C}_{20}\text{H}_{28}\text{O}_4$ M 332.439

Constit. of *S. subumbellatus*.

6-(3-Methylbutanoyl), 3-Ac:

$\text{C}_{22}\text{H}_{30}\text{O}_5$ M 374.476

Constit. of *S. subumbellatus*.

6-Angeloyl:

$\text{C}_{20}\text{H}_{26}\text{O}_4$ M 330.423

Constit. of *Euryops* spp. Oil.

6-Tigloyl:

$\text{C}_{20}\text{H}_{26}\text{O}_4$ M 330.423

Constit. of *E.* spp. Oil.

6-Angeloyl, 3-Ac:

$\text{C}_{22}\text{H}_{28}\text{O}_5$ M 372.460

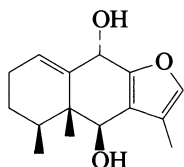
Constit. of *E.* spp. Oil.

6-Tigloyl, 3-Ac:

$\text{C}_{22}\text{H}_{28}\text{O}_5$ M 372.460

Constit. of *E. spp.* Oil.
 6-(3-Methyl-2-butenoyl):
 $C_{20}H_{26}O_4$ M 330.423
 Constit. of *E. spp.* Oil.
 6-(3-Methyl-2-pentenoyl):
 $C_{21}H_{28}O_4$ M 344.450
 Constit. of *E. spp.* Oil.
 6-(3-Methyl-2-pentenoyl), 3-Ac:
 $C_{23}H_{30}O_5$ M 386.487
 Constit. of *E. spp.* Oil.
 6-(3-Methyl-2-butenoyl), 3-Ac:
 $C_{22}H_{28}O_5$ M 372.460
 Constit. of *E. spp.* Oil.

Bohlmann, F. *et al*, *Phytochemistry*, 1978, **17**, 1135 (*synth*)
 Jakupovic, J. *et al*, *Phytochemistry*, 1991, **30**, 2691 (*isol, pmr*)

Furanoeremophil-1(10)-ene-6,9-diol**F-10031**
 $C_{15}H_{20}O_3$ M 248.321**(6 β ,9 α)-form**

Cryst. Mp 70°.

6-Angeloyl: [68773-49-9].

 $C_{20}H_{26}O_4$ M 330.423Constit. of *Euryops* spp. Oil.

6-(2-Methylpropenoyl): [68773-50-2].

 $C_{19}H_{24}O_4$ M 316.396Constit. of *E. brevipapposus*. Oil.

6-(3-Methyl-2-butenoyl): [68773-51-3].

 $C_{20}H_{26}O_4$ M 330.423Constit. of *E. brevipapposus*. Oil.

9-Ketone: see 6-Hydroxyfuraneremophil-1(10)-en-9-one, H-01845

(6 β ,9 β)-form

6-Angeloyl: [64185-33-7].

 $C_{20}H_{26}O_4$ M 330.423Constit. of *Senecio* spp. Oil.

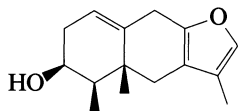
6-(3-Methylbutanoyl): [64185-34-8].

 $C_{20}H_{28}O_4$ M 332.439Constit. of *S. spp.* Oil.

6-(3-Methyl-2-butenoyl): [64185-35-9].

 $C_{20}H_{26}O_4$ M 330.423Constit. of *S. spp.* Oil.

6-(2-Methylpropenoyl): [64185-36-0].

 $C_{19}H_{24}O_4$ M 316.396Constit. of *S. spp.* Oil.Bohlmann, F. *et al*, *Phytochemistry*, 1977, **16**, 965; 1978, **17**, 1135 (*isol, pmr*)**Furanoeremophil-1(10)-en-3-ol****F-10032**
 $C_{15}H_{20}O_2$ M 232.322**3 β -form**

3-Angeloyl:

 $C_{20}H_{26}O_3$ M 314.424Constit. of *Euryops* spp. Oil. $[\alpha]_D^{24} + 23.5^\circ$ (c, 0.6 in $CHCl_3$).

3-(3-Methyl-2-pentenoyl):

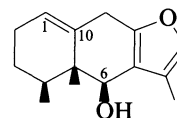
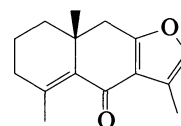
 $C_{21}H_{28}O_3$ M 328.450Constit. of *E. spp.* Oil.

3-(3-Methylpentanoyl):

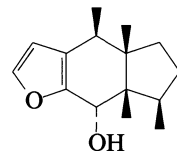
 $C_{21}H_{30}O_3$ M 330.466Constit. of *E. spp.* Oil.Bohlmann, F. *et al*, *Phytochemistry*, 1978, **17**, 1135 (*isol, pmr*)**Furanoeremophil-1(10)-en-6-ol****F-10033**

Updated Entry replacing F-00579

6-Hydroxy-1(10)-furaneremophilene

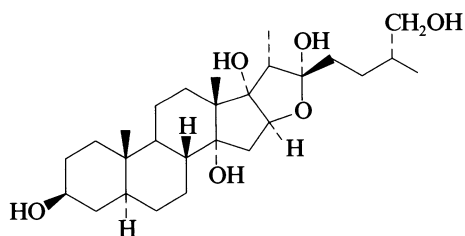

 $C_{15}H_{20}O_2$ M 232.322**6 β -form** [65563-80-6]6-Angeloyl: [40072-63-7]. **6 β -Angeloyloxyeuryopsin** $C_{20}H_{26}O_3$ M 314.424Constit. of *Euryops* spp. Oil. $[\alpha]_D^{24} + 4.2^\circ$ (c, 0.7 in $CHCl_3$).6-Tigloyl: **6 β -Tigloyloxyeuryopsin** $C_{20}H_{26}O_3$ M 314.424Constit. of *E. empetrifolius*. Oil.6-(2-Methylpropenoyl): **6 β -(2-Methylacryloyloxy)euryopsin** $C_{19}H_{24}O_3$ M 300.397Constit. of *E. brevipapposus*. Oil.6-(3-Methyl-2-butenoyl): **6 β -Seneciolyoxyeuryopsin** $C_{20}H_{26}O_3$ M 314.424Constit. of *E. brevipapposus*. Oil.Bohlmann, F. *et al*, *Chem. Ber.*, 1972, **105**, 3523 (*isol*)Bohlmann, F. *et al*, *Phytochemistry*, 1978, **17**, 1135 (*isol*)**Furanoeudesm-4-en-6-one****F-10034**
 $C_{15}H_{18}O_2$ M 230.306Constit. of *Ocotea pulchella*. Cryst. (Me_2CO). Mp 113-114°. $[\alpha]_D^{25} + 62^\circ$ (c, 1.24 in $CHCl_3$).Botega, C. *et al*, *Phytochemistry*, 1993, **32**, 1331 (*isol, pmr, cmr*)**Furanopinguisanol****F-10035**

[147235-24-3]


 $C_{15}H_{22}O_2$ M 234.338Constit. of *Trocholejeunea sandvicensis*. Oil. $[\alpha]_D^{16} - 1.96^\circ$ (c, 0.51 in MeOH).Tori, M. *et al*, *Phytochemistry*, 1993, **32**, 335 (*isol, pmr, cmr*)

Furostane-3,14,17,22,26-pentol

F-10036

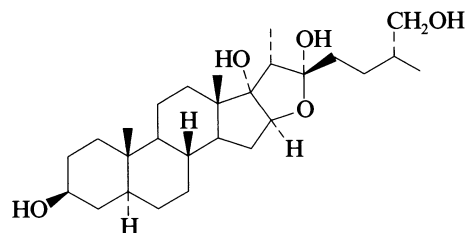
C₂₇H₄₆O₆ M 466.657**(3β,5α,22α,25R)-form**

22-Me ether, 26-Ac, 3-O-neohesperidoside: [119152-52-2].

Pardarinoside AC₄₂H₇₀O₁₆ M 831.005Constit. of the bulbs of *Lilium pardarinum*. Amorph. powder. [α]_D²⁷ – 56.4° (c, 0.5 in MeOH).22-Me ether, 26-Ac, 3-O-[α-L-rhamnopyranosyl-(1→2)][β-D-glucopyranosyl-(1→4)]-β-D-glucopyranoside: [125477-03-4]. **Pardarinoside C**C₄₈H₈₂O₂₁ M 995.163Constit. of the bulbs of *L. pardarium*. Amorph. powder. [α]_D²² – 50.5° (c, 1.17 in MeOH).22-Me ether, 26-Ac, 3-O-[α-L-arabinopyranosyl-(1→3)][α-L-rhamnopyranosyl-(1→2)]-β-D-glucopyranoside: [125456-48-6]. **Pardarinoside F**C₄₇H₈₀O₂₀ M 965.137Constit. of the bulbs of *L. pardarinum*. Amorph. powder. [α]_D²² – 32.8° (c, 0.27 in MeOH).Shimomura, H. *et al*, *Phytochemistry*, 1989, **28**, 3163.

Furostane-3,17,22,26-tetrol

F-10038

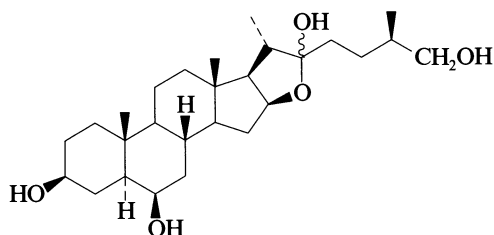
C₂₇H₄₆O₅ M 450.657**(3β,5α,22α,25R)-form**

22-Me ether, 26-Ac, 3-O-neohesperidoside: [119152-53-3].

Pardarinoside BC₄₂H₇₀O₁₅ M 815.006Constit. of the bulbs of *Lilium pardarinum*. Amorph. powder. [α]_D²⁷ – 62.0° (c, 0.5 in MeOH).22-Me ether, 26-Ac, 3-O-[α-L-rhamnopyranosyl-(1→2)][β-D-glucopyranosyl-(1→4)]-β-D-glucopyranoside: [125477-04-5]. **Pardarinoside D**C₄₈H₈₂O₂₀ M 979.164Constit. of the bulbs of *L. pardarinum*. Amorph. powder. [α]_D²² – 59.7° (c, 0.79 in MeOH).22-Me ether, 26-Ac, 3-O-[α-L-arabinopyranosyl-(1→3)][α-L-rhamnopyranosyl-(1→2)]-β-D-glucopyranoside: [125456-49-7]. **Pardarinoside G**C₄₇H₈₀O₁₉ M 949.138Constit. of the bulbs of *L. pardarinum*. Amorph. powder. [α]_D²² – 40.8° (c, 0.39 in MeOH).Shimomura, H. *et al*, *Phytochemistry*, 1989, **28**, 3163.

Furostane-3,6,22,26-tetrol

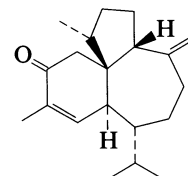
F-10037

C₂₇H₄₆O₅ M 450.657**(3β,5α,6β,22ξ,25R)-form**3-O-[β-D-Glc-(1→3)]-β-D-Glc(1→3)-β-D-Glc-(1→2)]-β-D-Glc-(1→4)-β-D-Gal, 26-O-β-D-Glc: [126594-42-1]. **Sativoside B1**C₆₃H₁₀₆O₃₅ M 1423.509Constit. of *Allium sativum*. Powder + 4H₂O (Me₂CO aq.). [α]_D²⁶ – 40.0° (c, 0.39 in H₂O).Matsuura, H. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2741.

Fusoxysporone

F-10039

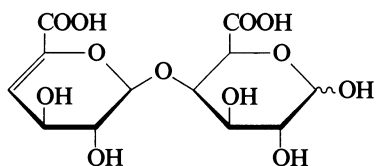
[145930-50-3]

C₂₀H₃₀O M 286.456Metab. of *Fusarium oxysporum*. Viscous liq. [α]_D²⁵ + 146.6° (c, 0.5 in CHCl₃).Abraham, W.-R. *et al*, *Tetrahedron*, 1992, **48**, 10559 (*isol*, *pmr*, *cmr*)

G

β -D-Galacto-4-eneopyranuronosyl-D-galacturonic acid

G-10001



Pyranose-form

$C_{12}H_{16}O_{12}$ M 352.251

Isol. from the enzymic hydrolysate of pectin produced by the pectin-trans eliminase from *Bacillus polymyxa* or commercial pectinase. $[\alpha]_D^{20} + 177.8^\circ$ (H_2O).

Albersheim, P. *et al*, *Helv. Chim. Acta*, 1960, **43**, 1422 (*isol*)

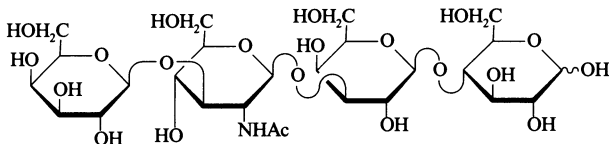
Nagel, C.W. *et al*, *Arch. Biochem. Biophys.*, 1961, **94**, 328 (*isol*)

Hasegawa, S. *et al*, *J. Biol. Chem.*, 1962, **237**, 619 (*isol*)

β -D-Galactopyranosyl-(1 \rightarrow 3)-2-acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 4)-D-glucose

G-10002

Lacto-N-tetraose. 3²- β -Galactosyllacto-N-triose II [14116-68-8]



Pyranose-form

$C_{26}H_{45}NO_{21}$ M 707.636

Present in the free state in human milk. Obt. from the partial acid hydrolysates of the penta- and higher saccharides present in human milk. $[\alpha]_D^{20} + 25.5^\circ$ (H_2O).

Phenylosazone: Mp 222-223 $^\circ$.

Kuhn, R. *et al*, *Chem. Ber.*, 1954, **87**, 289, 1553; 1956, **89**, 504, 1027, 2514; 1958, **91**, 364; 1960, **93**, 647 (*isol, struct*)

Malpress, F.H. *et al*, *Biochem. J.*, 1958, **68**, 708.

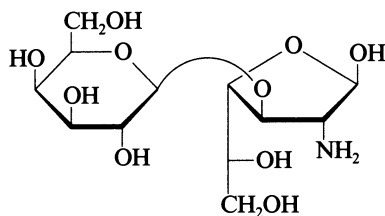
Dua, V.K. *et al*, *Anal. Biochem.*, 1983, **133**, 1 (*isol, hplc*)

Subramaniam, S. *et al*, *J. Am. Chem. Soc.*, 1986, **108**, 2068 (*pmr, cmr*)

β -D-Galactopyranosyl(1 \rightarrow 3)-2-amino-2-deoxy-D-galactose

G-10003

2-Amino-2-deoxy-3-O- β -D-galactopyranosyl-D-galactose



$C_{12}H_{23}NO_{10}$ M 341.314

β -Furanose-form

Isol. from the acid hydrostate of human blood group A, B, H and Le substances.

N-Ac: 2-Acetamido-2-deoxy-3-O- β -D-galactopyranosyl-D-galactose. β -D-Galactopyranosyl(1 \rightarrow 3)-2-acetamido-2-deoxy-D-galactose

$C_{14}H_{25}NO_{11}$ M 383.352

TF-antigenic disaccharide (Thomsen-Friedenreich). $[\alpha]_D^{35} + 34.5^\circ$ (c, 0.3 in H_2O).

N-Ac, Me glycoside, 5,6-O-isopropylidene:

$C_{18}H_{31}NO_{11}$ M 437.443

$[\alpha]_D^{35} - 57.3^\circ$ (c, 2.48 in H_2O).

Painter, T.J. *et al*, *Chem. Ind. (London)*, 1962, 1535 (*isol*)

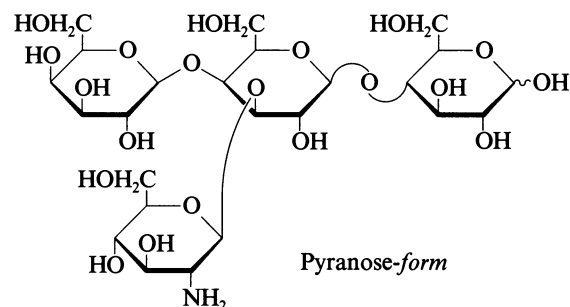
Flowers, H.M. *et al*, *J. Org. Chem.*, 1965, **30**, 2041 (*synth*)

Springer, G.F. *et al*, *Naturwissenschaften*, 1974, **61**, 457 (*biochem*)

Ghosh, R. *et al*, *J. Carbohydr. Chem.*, 1992, **11**, 71 (*synth, pmr*)

β -D-Galactopyranosyl-(1 \rightarrow 4)-[2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)]- β -D-galactopyranosyl-(1 \rightarrow 4)-D-glucose

G-10004



Pyranose-form

$C_{24}H_{43}NO_{20}$ M 665.598

N-Ac: *Lacto-N-neotetraose*

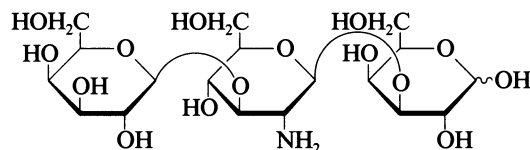
$C_{26}H_{45}NO_{21}$ M 707.636

Isol. from the partial acid or enzymic hydrolysates of an N-acetylneuraminyllacto-N-neotetraose which is present in human milk. Cryst. + 3 H_2O . Mp 214-218 $^\circ$. $[\alpha]_D^{20} + 27^\circ$ (H_2O).

Kuhn, R. *et al*, *Chem. Ber.*, 1962, **95**, 513, 518 (*isol*)

β -D-Galactopyranosyl-(1 \rightarrow 3)-2-amino-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)-D-galactose

G-10005



Pyranose-form

$C_{18}H_{33}NO_{15}$ M 503.456

N-Ac: β -D-Glucopyranosyl-(1 \rightarrow 3)-2-acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)-D-galactose. *Lacto-N-triose I*

$C_{20}H_{35}NO_{16}$ M 545.494

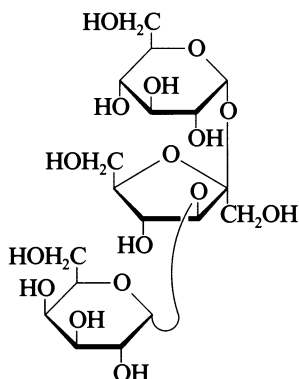
Isol. from the partial acid hydrol. of milk. Cryst. + 2 H_2O . Mp 202 $^\circ$. $[\alpha]_D^{20} + 40.7^\circ$ (H_2O).

N-Ac, *phenylosazone*: Mp 230 $^\circ$.

Kuhn, R. *et al*, *Chem. Ber.*, 1954, **87**, 289, 1553; 1956, **89**, 504, 1027, 2514; 1958, **91**, 364; 1960, **93**, 647 (*isol*)
 Malpress, F.H. *et al*, *Biochem. J.*, 1958, **68**, 708.

α -D-Galactopyranosyl-(1→3)- β -D-fructofuranosyl α -D-glucopyranoside
 [15397-05-4]

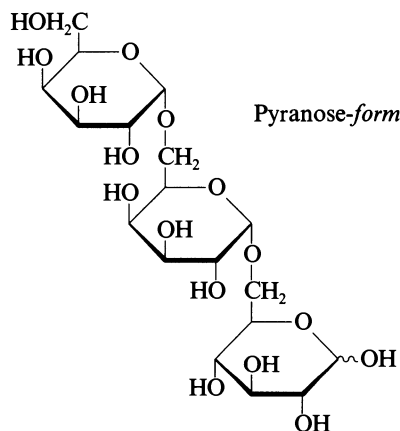
G-10006



$C_{18}H_{32}O_{16}$ M 504.441
 Isol. from the roots of *Silene inflata* and from *Lychnis dioica*. $[\alpha]_D^{20} + 98.5^\circ$ (H_2O).
 Courtois, J.E. *et al*, *Bull. Soc. Chim. Biol.*, 1959, **41**, 1261 (*isol*)
 Davy, J. *et al*, *CA*, 1966, **67**, 91053s (*isol*)

α -D-Galactopyranosyl-(1→6)- α -D-galactopyranosyl-(1→6)-D-glucose
Manninotriose
 [13382-86-0]

G-10007



$C_{18}H_{32}O_{16}$ M 504.441
 Found free in cocoa beans, hazelnuts and in various plant mannans. Synth. by the transferase action of yeast, bacterial and other α -galactosidases on melibiose. $[\alpha]_D + 167^\circ$ (H_2O).

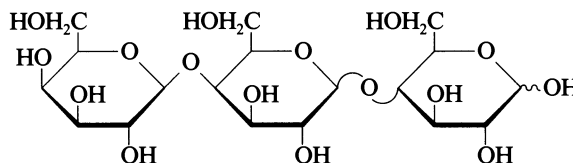
Phenylosazone: Mp 122°.

French, D., *Adv. Carbohydr. Chem.*, 1954, **4**, 149 (*synth*)
 Bailey, R.W., *Biochem. J.*, 1963, **85**, 509 (*synth*)
 Lombard, A. *et al*, *CA*, 1976, **85**, 59634t (*isol*)
 Aamen, P., *J. Sci. Food Agric.*, 1979, **30**, 869 (*isol*)

β -D-Galactopyranosyl-(1→4)- β -D-galactopyranosyl-(1→4)-D-glucose
4'-Galactosyllactose

G-10008

[6587-31-1]



Pyranose-form

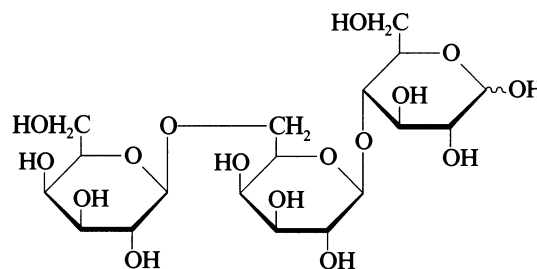
$C_{18}H_{32}O_{16}$ M 504.441
 Synth. by enzymic transglycosylation from lactose by immobilised cells of *Cryptococcus laurenti*. Mp 229-231°.
 Stable on heating for 15 min at pH 3 at 120°. Sweet taste (25% of sucrose).

Ozawa, O. *et al*, *CA*, 1988, **109**, 169020m; 1991, **114**, 14149z (*synth, rev*)

β -D-Galactopyranosyl-(1→6)- β -D-galactopyranosyl-(1→4)-D-glucose
6'-Galactosyllactose

G-10009

[32581-31-0]



Pyranose-form

$C_{18}H_{32}O_{16}$ M 504.441
 Formed by the transferase action on lactose of the β -galactosidases from *Saccharomyces fragilis*, *Aspergillus flavus* and *Penicillium chrysogenum*. Isol. from human milk and from the urine of blood group O, nonsecretor women during pregnancy and lactation. Powder. Mp 187° (sinters at 167°). $[\alpha]_D^{22} + 36^\circ$ (c, 1.0 in H_2O).

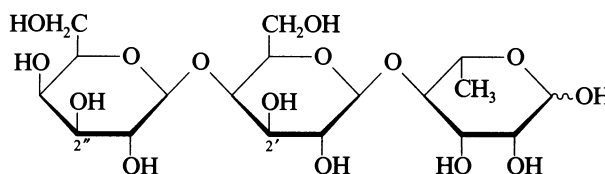
Phenylosazone: [68067-46-9].

Yellow needles (EtOH aq.). Mp 229-231°.

Pazur, J.H., *J. Biol. Chem.*, 1954, **208**, 439.
 Ballio, A. *et al*, *Tetrahedron*, 1960, **9**, 125 (*isol*)
 Yamashita, K. *et al*, *Arch. Biochem. Biophys.*, 1974, **161**, 164 (*isol*)
 Hallgren, P. *et al*, *J. Biol. Chem.*, 1977, **252**, 1014, 1034 (*isol*)
 Chung, T.G. *et al*, *Chem. Pharm. Bull.*, 1978, **26**, 2147 (*synth*)
 Asp, N.G. *et al*, *Food Chem.*, 1980, **5**, 147 (*synth*)

β -D-Galactopyranosyl-(1→4)- β -D-galactopyranosyl-(1→4)-L-rhamnose

G-10010

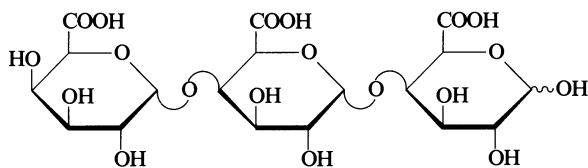


Pyranose-form

$C_{18}H_{32}O_{15}$ M 488.4422',2'-Di-O-Me: [35949-94-1]. 3-O-Methyl- β -D-galactopyranosyl-(1 \rightarrow 4)-3-O-methyl- β -D-galactopyranosyl-(1 \rightarrow 4)-L-rhamnose $C_{20}H_{36}O_{15}$ M 516.495Constit. of the mucilaginous polysaccharide from the bark of *Ulmus fulva* (slippery elm). $[\alpha]_D^{25} + 13^\circ$ (c, 1.0 in H_2O).Beveridge, R.J. *et al*, *Carbohydr. Res.*, 1971, **9**, 107 (*isol, synth*) α -D-Galactopyranuronosyl-(1 \rightarrow 4)- α -D-galactopyranuronosyl-(1 \rightarrow 4)-D-galacturonic acid, 9CI, 8CI

G-10011

[6037-45-2]



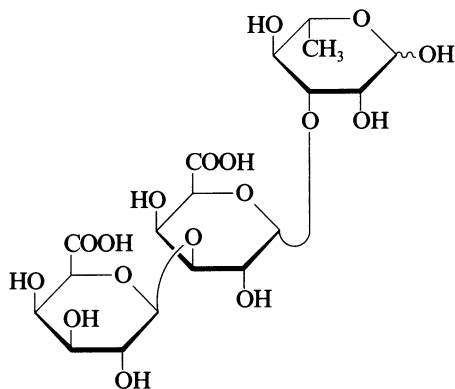
Pyranose-form

 $C_{18}H_{26}O_{19}$ M 546.392Isol. from enzymic hydrolysates (yeast or mould pectinases) of pectic acid. Also from partial acid hydrolysis of *Medicago sativa* (lucerne) pectin. Mp 139-145° dec. $[\alpha]_D^{27} + 185^\circ$ (c, 0.12 in H_2O).

Pyranose-form

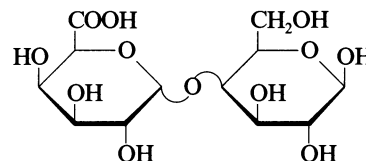
Ca salt: Cryst. + 1 or 7 H_2O . Mp 145-155° (monohydrate). $[\alpha]_D + 154^\circ$ (H_2O) (heptahydrate). Turns deep pink on melting.*Brucine salt*: Cryst. $[\alpha]_D + 25^\circ$ (H_2O).Phaff, H.J. *et al*, *Arch. Biochem. Biophys.*, 1954, **51**, 114; 1952, **36**, 231.McCready, R.M. *et al*, *J. Am. Chem. Soc.*, 1954, **76**, 3035.Aspinall, G.O. *et al*, *J. Chem. Soc.*, 1961, 4215 (*isol*)Jones, J.K.N. *et al*, *J. Chem. Soc.*, 1964, 1361.Banerji, N. *et al*, *Cellul. Chem. Technol.*, 1968, **2**, 655; *CA*, **71**, 82805h (*isol*) β -D-Galactopyranuronosyl-(1 \rightarrow 3)- β -D-galactopyranuronosyl-(1 \rightarrow 3)-L-rhamnose

G-10012

 $C_{18}H_{28}O_{17}$ M 516.409Isol. from the hydrolysate of the gum of *Rhizophora mangle*. $[\alpha]_D^{30} + 120^\circ$ (c, 0.1 in H_2O).Sarkar, M. *et al*, *Indian J. Chem.*, 1973, **11**, 1129 (*isol*)4-O- α -D-Galactopyranuronosyl-D-galactose, 9CI

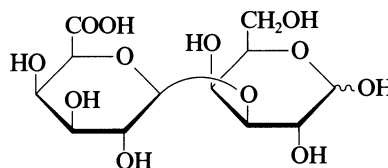
G-10013

[5887-86-5]

 β -Pyranose-form $C_{12}H_{20}O_{12}$ M 356.283Constit. of *Sterculia urens* gum. β -Pyranose-form*Me glycoside, 6'-Me ester, hexa-Ac*: $C_{26}H_{36}O_{18}$ M 636.560Cryst. (EtOH). Mp 228.7-229.4°. $[\alpha]_D^{22.5} + 95.9^\circ$ (c, 0.73 in $CHCl_3$).Bajpai, K.S. *et al*, *Indian J. Chem.*, 1970, **8**, 48 (*isol*)Fujiwara, T. *et al*, *Carbohydr. Res.*, 1982, **101**, 305.3-O- β -D-Galactopyranuronosyl-D-galactose, 9CI

G-10014

[7268-75-9]

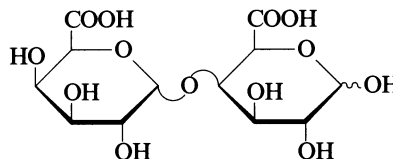


Pyranose-form

 $C_{12}H_{20}O_{12}$ M 356.283Isol. from the partial acid hydrolysate of *Rhizophora mangle* gum and from *Spondias dulcis* gum (Anacardiaceae). $[\alpha]_D + 56.2^\circ$ (H_2O).Parikh, V.M. *et al*, *Can. J. Chem.*, 1966, **44**, 327.Sarkar, M. *et al*, *Indian J. Chem.*, 1974, **11**, 1129 (*isol*)Roy, A. *et al*, *Carbohydr. Res.*, 1975, **41**, 219.Basu, S. *et al*, *Carbohydr. Res.*, 1981, **94**, 215 (*isol*)4-O- α -D-Galactopyranuronosyl-D-galacturonic acid

G-10015

[5894-59-7]



Pyranose-form

 $C_{12}H_{18}O_{13}$ M 370.266

Prepd. from pectin by enzymic hydrolysis using yeast or mould pectinases or by acid hydrolysis. Sole or major repeating unit of the pectin class of polysaccharides.

Ca salt: Cryst. + 5 H_2O . Mp 130° (part. melt). $[\alpha]_D + 119^\circ$ (H_2O). Becomes dark pink at 130-140°.*Brucine salt*: Cryst. $[\alpha]_D - 7.5^\circ$ (H_2O).

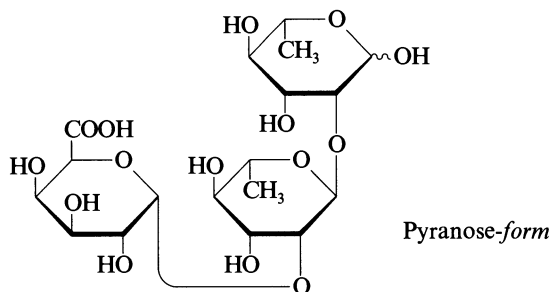
Pyranose-form

Me glycoside, 6,6'-di-Me ester: $C_{15}H_{24}O_{13}$ M 412.347Mp 120-122°. $[\alpha]_D + 162^\circ$ (H_2O).Phaff, H.J. *et al*, *Arch. Biochem. Biophys.*, 1952, **36**, 231; 1954, **51**, 102.Derungs, R. *et al*, *Helv. Chim. Acta*, 1954, **37**, 657 (*isol*)

Gee, M. *et al*, *J. Org. Chem.*, 1958, **23**, 620 (*Me gly*)
 Aspinall, G.O. *et al*, *J. Chem. Soc.*, 1961, 4215 (*isol*)
 Jones, J.K.N. *et al*, *J. Chem. Soc.*, 1964, 1361.

 α -D-Galactopyranuronosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-(1 \rightarrow 2)-L-rhamnose

G-10016



$C_{18}H_{30}O_{15}$ M 486.426
 Isol. from the partial acid hydrolysate of Panniculatan a mucilaginous polysaccharide obt. from the inner bark of *Panniculata hydrangia*. $[\alpha]_D^{20} + 80.3^\circ$ (c, 0.3 in H_2O).

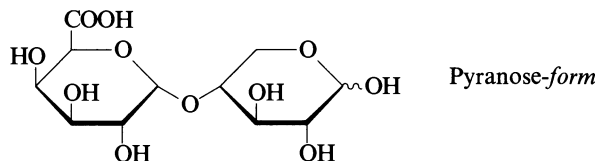
[65562-06-3]

Tomoda, M. *et al*, *Chem. Pharm. Bull.*, 1977, **25**, 2910 (*isol*)4-O- α -D-Galactopyranuronosyl-D-xylose, 8Cl

G-10017

Aldobiouronic acid D_2

[10347-13-4]



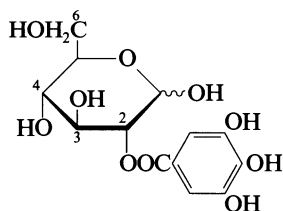
$C_{11}H_{18}O_{11}$ M 326.257
 Isol. from the partial acid hydrolysate of maritime pine (*Pinus pinaster*) hemicellulose. $[\alpha]_D + 67^\circ$ (c, 0.37 in H_2O).

Roudier, A.J. *et al*, *Bull. Soc. Chim. Fr.*, 1960, **28**, 2074 (*isol*)

2-Galloylglucose

G-10018

[98917-85-2]



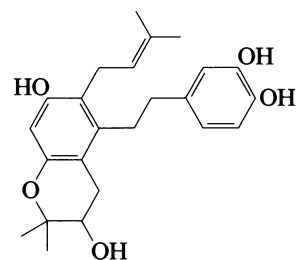
$C_{13}H_{16}O_{10}$ M 332.263
 Constit. of commercial rhubarb (*Rheum* spp.). Amorph. powder + $\frac{1}{2}H_2O$. $[\alpha]_D^{25} + 28.9^\circ$ (c, 1.0 in H_2O).

Schmidt, O.T. *et al*, *Justus Liebig's Ann. Chem.*, 1961, **649**, 137 (*struct*)Kashiwada, Y. *et al*, *Phytochemistry*, 1988, **27**, 1473 (*isol*)

Gancaonin T

G-10019

[134958-55-7]



$C_{24}H_{30}O_5$ M 398.498
 Constit. of *Glycyrrhiza uralensis*. Amorph. powder.

Fukai, T. *et al*, *Phytochemistry*, 1991, **30**, 1245 (*isol, pmr, cmr*)

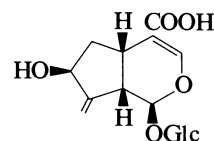
Gardoside

G-10020

Updated Entry replacing G-00142

8,10-Dehydrologanic acid

[54835-76-6]



$C_{16}H_{22}O_{10}$ M 374.344
 Constit. of *Gardenia jasminoides*. Powder. $[\alpha]_D^{22} - 33.6^\circ$ (c, 0.4 in MeOH).

Penta-Ac: Cryst. (EtOH). Mp 209-211°. $[\alpha]_D^{22} - 54.4^\circ$ (c, 0.6 in $CHCl_3$).

7-(4-Hydroxybenzoyl):

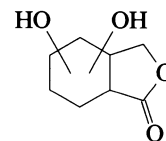
 $C_{23}H_{26}O_{12}$ M 494.451Constit. of *Veronica anagallis-aquatica*. Amorph. powder.Inouye, H. *et al*, *Phytochemistry*, 1974, **13**, 2219.Lahloub, M.-F. *et al*, *Phytochemistry*, 1993, **33**, 401 (*deriv*)

Garlicin†

G-10021

Hexahydrodihydroxy-1(3H)-isobenzofuranone

[126526-79-2]



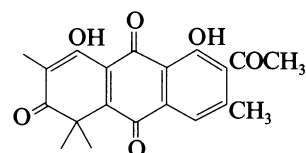
$C_8H_{12}O_4$ M 172.180
 Exact struct. not known. Various analogues have been synthesised. Isol. from garlic (*Allium sativa*).
 Antimicrobial agent.

Nour, R.A. *et al*, *Justus Liebig's Ann. Chem.*, 1992, 383.

Garveatin A quinone

G-10022

Updated Entry replacing G-00154

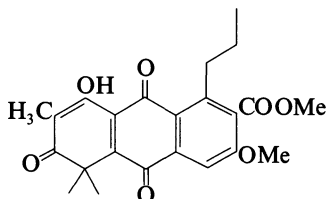
 $C_{20}H_{18}O_6$ M 354.359

Constit. of *Garveia annulata*. Red oil. Some confusion over CA number.

Fahy, E. *et al*, *Can. J. Chem.*, 1987, **65**, 376.

Garvin A quinone**G-10023**

Updated Entry replacing G-00159
[99457-98-4]



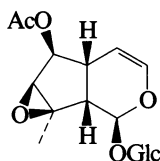
C₂₃H₂₄O₇ M 412.438

Metab. of *Garveia annulata*. Orange-red amorph. solid.
Called Garveatin A quinone in index guide but CA gives this struct.

Fahy, E. *et al*, *J. Org. Chem.*, 1986, **51**, 57.

Genistifolin**G-10024**

[146714-10-5]



C₁₇H₂₄O₁₀ M 388.371

Constit. of *Linaria genistifolia*. Amorph. solid. [α]_D²⁰
– 80.16° (c, 0.6 in MeOH).

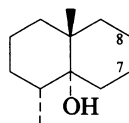
Ilieva, E. *et al*, *Z. Naturforsch., C*, 1992, **47**, 791 (*isol*, *pmr*, *cmr*)

Geosmin**G-10025**

Updated Entry replacing G-00238

Octahydro-4,8a-dimethyl-4a(2H)-naphthalenol, 9*Cl*. 1,10-*Dimethyl-9-decalol*. 11,12,13-*Trinor-5-eudesmanol*

[19700-21-1]



Absolute
configuration

C₁₂H₂₂O M 182.305

Noreudesmane numbering shown. Odorous substance produced by *Streptomyces* spp. and blue-green algae. Oil with characteristic penetrating earthy odour. [α]_D²⁵ ca. – 140° (MeOH), [α]_D – 16.5° (CHCl₃). Stereoisomers known synthetically.

7,8-*Didehydro*: 1,2,3,4,4a,5,8,8a-*Octahydro-4,8a-dimethylnaphthalen-4a-ol*. 11,12,13-*Trinor-7-eudesmen-5-ol*. *Dehydrogeosmin*

C₁₂H₂₀O M 180.289

Constit. of various cactus spp. flower scents. Oil.

(±)-*form* [16423-19-1]

Oil, *cryst*. on standing. Mp 78–82°.

[5173-69-3, 5173-70-6, 16452-32-7, 23333-91-7, 62823-65-8, 73428-92-9]

Marshall, J.A. *et al*, *J. Org. Chem.*, 1966, **31**, 1020; 1968, **33**, 2593 (*synth*)

Gerber, N.N. *et al*, *Tetrahedron Lett.*, 1968, 2971 (*isol*, *struct*)

Ayer, W.A. *et al*, *Can. J. Chem.*, 1976, **54**, 3276 (*isol*, *struct*, *synth*, *abs config*)

Gerber, N.N., *J. Chem. Ecol.*, 1977, **3**, 475 (*isol*)

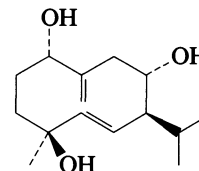
Gerber, N.N. *et al*, *Phytochemistry*, 1977, **16**, 2025 (*cmr*)

Gerber, N.N., *Dev. Ind. Microbiol.*, 1978, **20**, 225 (*rev*)

Kaiser, R. *et al*, *Helv. Chim. Acta*, 1990, **73**, 133 (*isol*, *synth*, *ms*, *pmr*, *cmr*)

Swarts, H.J. *et al*, *Tetrahedron*, 1992, **48**, 5497 (*synth*)

Huber, U. *et al*, *Helv. Chim. Acta*, 1993, **76**, 1949 (*synth*, *abs config*)

5,10(14)-Germacradiene-1,4,8-triol**G-10026**

C₁₅H₂₆O₃ M 254.369

(1α,4β,5E,8α)-*form*

4-*Me ether*: 4-Methoxy-5,10(14)-germacradiene-1,8-diol

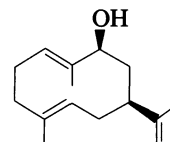
C₁₆H₂₈O₃ M 268.395

Constit. of *Artemisia sieberi*. Oil.

Marco, J.A. *et al*, *Phytochemistry*, 1993, **34**, 1061 (*isol*, *pmr*, *cmr*)

1(10),4,11-Germacratrien-9-ol**G-10027**

Updated Entry replacing G-00280



C₁₅H₂₄O M 220.354

(1(10)*E*,4*E*,9β)-*form* [50657-20-0] *Agerol*

Constit. of *Achillea ageratum*. *Cryst*. Mp 63–64°. [α]_D²⁰
+ 11.8° (c, 2 in MeOH).

1β,10β:4β,5β-*Diepoxide*: [53840-03-2]. 1,10:4,5-*Diepoxo-11-germacren-9-ol*. *Agerol diepoxide*

C₁₅H₂₄O₃ M 252.353

Constit. of *Achillea ageratum*.

Grandi, R. *et al*, *Tetrahedron Lett.*, 1973, 1765.

Bellesia, F. *et al*, *Phytochemistry*, 1975, **14**, 1737 (*Agerol diepoxide*)

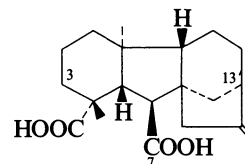
Pagnoni, V. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1978, 217 (*cryst struct*)

Gibberellin A₁₂**G-10028**

Updated Entry replacing G-00326

1,4a-*Dimethyl-8-methylenegibbane-1,10-dicarboxylic acid*, 9*Cl*

[1164-45-0]



C₂₀H₂₈O₄ M 332.439

Metab. of *Gibberella fujikuroi*. *Cryst*. (EtOH/pet. ether).
Mp 245–248°.

3β-*Hydroxy*: [4955-22-0]. *Gibberellin A₁₄*

C₂₀H₂₈O₅ M 348.438

Metab. of *G. fujikuroi*. Cryst. (EtOAc/pet. ether). Mp 242-243°. $[\alpha]_D^{17} -73^\circ$ (c, 0.4 in EtOH).

7-Aldehyde: [19436-07-8]. **Gibberellin A₁₂ 7-aldehyde**

C₂₀H₂₈O₃ M 316.439

Constit. of *Phaseolus* spp. *Pisum sativum* and other plant spp. Precursor of Gibberellin A₁₂.

Jones, K.C. *et al*, *Phytochemistry*, 1968, **7**, 283 (*struct*)

Bearder, J.R. *et al*, *Phytochemistry*, 1973, **12**, 2173 (*biosynth*)

Graebe, J.E. *et al*, *Phytochemistry*, 1974, **13**, 1433 (*biosynth*)

Mori, K. *et al*, *Tetrahedron*, 1976, **32**, 1497 (*synth*)

Nakata, T. *et al*, *Tetrahedron Lett.*, 1976, 1515 (*synth*)

Arraez, J.D. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1985, 207 (*epimer*)

Turnbull, C.G.N. *et al*, *Phytochemistry*, 1986, **25**, 97 (*biosynth*)

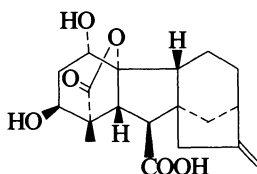
Zhu, Y.-X. *et al*, *Phytochemistry*, 1988, **27**, 2549 (*biosynth*)

Gibberellin A₁₆

G-10029

Updated Entry replacing G-00329

[25509-93-7]



C₁₉H₂₄O₆ M 348.395

Metab. of *Gibberella fujikuroi*. Cryst. (MeOH aq.). Mp 157-165°.

1-Epimer: [72533-75-6]. **Gibberellin A₅₄**

C₁₉H₂₄O₆ M 348.395

From *G. fujikuroi* and *Triticum aestivum*. Cryst. (Me₂CO/hexane). Mp 243-246°.

13-Hydroxy: [75082-54-1]. **Gibberellin A₅₇**

C₁₉H₂₄O₇ M 364.394

From *G. fujikuroi*. Amorph.

1-Epimer, 2β-hydroxy: [132043-65-3]. **Gibberellin A₇₉**

C₁₉H₂₄O₇ M 364.394

Constit. of *T. aestivum*.

McInnes, A.G. *et al*, *Can. J. Biochem.*, 1973, **51**, 1470 (*biosynth*)

Bearder, J.R. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1973, 2824 (*isol*)

Murofushi, N. *et al*, *Agric. Biol. Chem.*, 1979, **43**, 2179; 1980, **44**, 1583 (*derivs*)

Gaskin, P. *et al*, *Agric. Biol. Chem.*, 1980, **44**, 1589 (*deriv*)

Voigt, B. *et al*, *Tetrahedron*, 1983, **39**, 449 (*synth*)

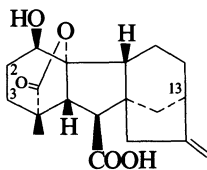
Penny, M. *et al*, *Phytochemistry*, 1993, **33**, 951 (*GA₇₉*)

Gibberellin A₆₁

G-10030

Updated Entry replacing G-00343

[81826-98-4]



C₁₉H₂₄O₅ M 332.396

Constit. of *Triticum aestivum*. Cryst. (Me₂CO/pet. ether). Mp 257-259°.

13-Hydroxy: [81826-97-3]. **Gibberellin A₆₀**

C₁₉H₂₄O₆ M 348.395

Constit. of *T. aestivum*. Cryst. (Me₂CO/pet. ether). Mp 245-247°.

2,3-Didehydro: [81826-99-5]. **Gibberellin A₆₂**

C₁₉H₂₂O₅ M 330.380

Constit. of *Pyrus malus*. Gum.

2β-Hydroxy: **Gibberellin A₉₀**

C₁₉H₂₄O₆ M 348.395

Constit. of *T. aestivum*.

Kirkwood, P.S. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1982, 689 (*isol, struct, synth*)

Shimano, M. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 276 (*synth*)

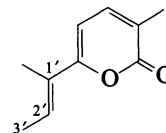
Penny, M. *et al*, *Phytochemistry*, 1993, **33**, 951 (*GA₉₀*)

Gibepyrone A

G-10031

3-Methyl-6-(1-methyl-1-propenyl)-2H-pyran-2-one

[146446-05-1]



C₁₀H₁₂O₂ M 164.204

Metab. of *Gibberella fujikuroi*.

3'-Hydroxy: [146446-06-2]. **Gibepyrone B**

C₁₀H₁₂O₃ M 180.203

Metab. of *G. fujikuroi*.

3'-Oxo: [146446-07-3]. **Gibepyrone C**

C₁₀H₁₀O₃ M 178.187

Metab. of *G. fujikuroi*.

3'-Carboxylic acid: [146446-08-4]. **Gibepyrone D**

C₁₀H₁₀O₄ M 194.187

Metab. of *G. fujikuroi*.

1',2'-Epoxide: [146446-10-8]. **Gibepyrone E**

C₁₀H₁₂O₃ M 180.203

Metab. of *G. fujikuroi*.

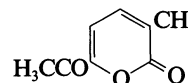
Barrero, A.F. *et al*, *Tetrahedron*, 1993, **49**, 141 (*isol, pmr, cmr*)

Gibepyrone F

G-10032

6-Acetyl-3-methyl-2H-pyran-2-one

[146446-11-9]



C₈H₈O₃ M 152.149

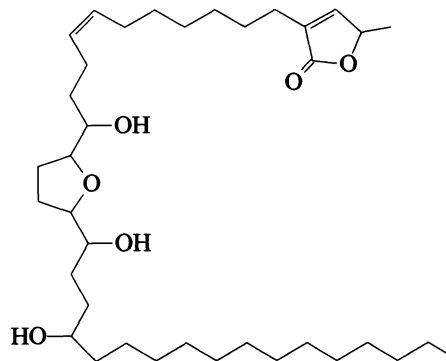
Metab. of *Gibberella fujikuroi*.

Barrero, A.F. *et al*, *Tetrahedron*, 1993, **49**, 141 (*isol, pmr, cmr*)

Giganenin

G-10033

[143572-81-0]



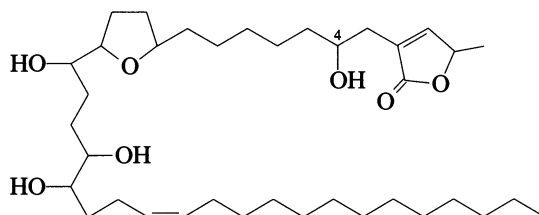
C₃₇H₆₆O₆ M 606.925

Constit. of *Goniothalamus giganteus*. Amorph. solid. Mp 60-62°. $[\alpha]_D^{25} +21.4^\circ$ (c, 0.23 in MeOH).

Fang, X.-P. *et al*, *Heterocycles*, 1992, **34**, 1075 (*isol, pmr, cmr, ms*)

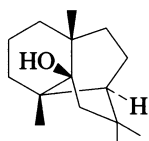
Gigantetronin**G-10034**

[145403-31-2]

 $C_{37}H_{66}O_7$ M 622.924Constit. of *Goniothalamus giganteus*. Wax. Mp 57-59°. $[\alpha]_D^{20} + 10^\circ$ (c, 0.2 in $CHCl_3$).4-Deoxy: [145403-35-6]. **Gigantrionenin** $C_{37}H_{66}O_6$ M 606.925Constit. of *G. giganteus*. Wax. Mp 55-57°. $[\alpha]_D + 17^\circ$ (c, 0.2 in $CHCl_3$).Fang, X.-P. et al, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1655 (isol, pmr, cmr, ms)**Ginsenoside****G-10035**

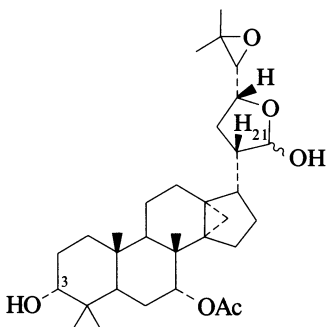
Octahydro-2,2,4,7a-tetramethyl-1,4-ethano-3aH-inden-3a-ol, 9CI

[117591-80-7]

 $C_{15}H_{26}O$ M 222.370Isol. from the rootlets of *Panax ginseng*. Oil. $[\alpha]_D - 18.3^\circ$ (c, 1.1 in $CHCl_3$).Iwabuchi, H. et al, *Chem. Pharm. Bull.*, 1988, **36**, 2447 (isol, pmr, cmr, struct)**Glabretol****G-10036**

Updated Entry replacing G-00386

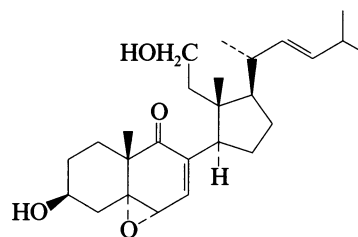
[41943-01-5]

 $C_{32}H_{50}O_6$ M 530.743Constit. of *Guarea glabra*. Oil.3,21-Diketone: Cryst. (EtOAc/Me₂CO). Mp 215-218°. $[\alpha]_D - 35^\circ$ ($CHCl_3$).

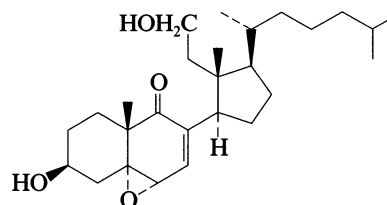
7-Deacetyl, 3-Ac:

 $C_{32}H_{50}O_6$ M 530.743Constit. of *Aglaiia ferruginaea* and *Turraea obtusifolia*. Amorph.

7-Deacetyl, 3-tigloyl:

 $C_{35}H_{54}O_6$ M 570.808Constit. of *A. ferruginaea*. Amorph.Ferguson, G. et al, *J. Chem. Soc., Perkin Trans. 1*, 1975, 491.Mulholland, D.A. et al, *Phytochemistry*, 1993, **34**, 579 (derivs)**Glaciasterol A****G-10037** $C_{26}H_{40}O_4$ M 416.600Constit. of *Aplysilla glacialis*. Amorph. solid.

[144369-45-9]

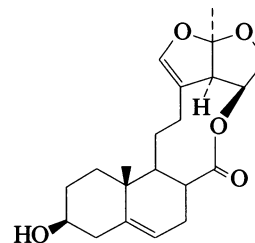
Pika, J. et al, *Can. J. Chem.*, 1992, **70**, 1506 (isol, pmr, cmr)**Glaciasterol B****G-10038** $C_{27}H_{44}O_4$ M 432.642Constit. of *Aplysilla glacialis*. Needles (MeOH aq.) (as di-Ac). Mp 55-57° (di-Ac).

[144369-46-0]

Pika, J. et al, *Can. J. Chem.*, 1992, **70**, 1506 (isol, pmr, cmr)**Glaucogenin C****G-10039**

Updated Entry replacing G-00401

[82001-38-5]

 $C_{21}H_{28}O_5$ M 360.449Needles. Mp 205-206°. $[\alpha]_D + 83.2^\circ$ (c, 1.0 in MeOH).Ac: Mp 234°. $[\alpha]_D + 10.9^\circ$ (c, 0.34 in $CDCl_3$).3-O- α -L-Cymaropyranosyl-(1 \rightarrow 4)- β -L-cymaropyranosyl-(1 \rightarrow 4)- β -D-thevetopyranoside: [81474-88-6]. **Glaucoside E** $C_{42}H_{64}O_{15}$ M 808.959From *C. glaucescens*. Amorph. powder. Mp 100-106°. $[\alpha]_D - 21.4^\circ$ (c, 1.02 in $CHCl_3$).3-O- β -D-Thevetoside: [82001-46-5]. $C_{28}H_{40}O_9$ M 520.619Constit. of *Cynanchum glaucescens*, the Chinese drug "Pai-ch'ien". Cryst. Mp 187-190.5°. $[\alpha]_D + 27.4^\circ$ (c, 1.03 in $CHCl_3$).3-O- β -D-Oleandropyranoside: [97399-96-7]. **Cynatratoside A** $C_{28}H_{40}O_8$ M 504.619

Isol. from dried root of *C. atratum* (Pai-Wei). Needles + $\frac{1}{2}$ H₂O. Mp 209-210°. [α]_D +15.5° (c, 1.00 in MeOH). Prob. artifact.

3-O-[α -L-Cymaropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranoside]: [97399-97-8].

Cynatratoside B

C₄₁H₆₂O₁₄ M 778.932

From *C. atratum*. Amorph. powder + $\frac{1}{2}$ H₂O. Mp 100-103°. [α]_D –21.5° (c, 1.0 in MeOH).

3-O-[α -D-Oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- α -D-oleandropyranoside]: [97465-76-4].

Cynatratoside C

C₄₁H₆₂O₁₄ M 778.932

From *C. atratum*. Amorph. powder + $\frac{1}{2}$ H₂O. Mp 104-108°. [α]_D –7.2° (c, 1.0 in MeOH).

3-O-[β -D-Glucopyranosyl-(1 \rightarrow 4)- α -L-cymaropyranosyl-(1 \rightarrow 4)-D-digitoxopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranoside]: [97399-99-0]. **Cynatratoside D**

C₄₇H₇₂O₁₉ M 941.074

From *C. atratum*. Amorph. powder + $\frac{1}{2}$ H₂O. Mp 140-145°. [α]_D –25.8° (c, 1.0 in MeOH).

3-O-[α -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 4)- α -D-oleandropyranoside]: [97465-78-6]. **Cynatratoside E**

C₄₇H₇₂O₁₉ M 941.074

From *C. atratum*. Amorph. powder + $1\frac{1}{2}$ H₂O. Mp 150-155°. [α]_D –19.9° (c, 1.0 in MeOH).

3-O-[β -D-Cymaropyranosyl-(1 \rightarrow 4)- α -L-diginopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside]: [100296-25-1].

Cynatratoside F

C₄₂H₆₄O₁₄ M 792.959

From *C. atratum*. Amorph. powder. Mp 106-113°. [α]_D –32.8° (c, 1 in CHCl₃).

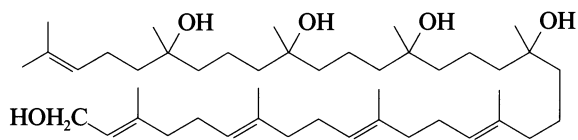
Nakagawa, T. *et al*, *Chem. Pharm. Bull.*, 1983, **21**, 870 (*isol*)

Zhang, Z.-X. *et al*, *Chem. Pharm. Bull.*, 1985, **33**, 1507, 4188 (*isol*)

Glisoprenin A

G-10040

[144376-62-5]



C₄₅H₈₂O₅ M 703.140

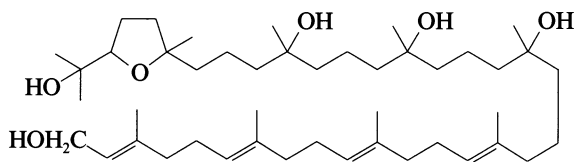
Prod. by *Gliocladium* sp. FO-1513. Inhibitor of acyl CoA: cholesterol acyltransferase. Oil. [α]_D¹⁸ +0.4° (c, 1 in CHCl₃).

Tomoda, H. *et al*, *J. Antibiot.*, 1992, **45**, 1202, 1669 (*isol*, *pmr*, *cmr*, *struct*)

Glisoprenin B

G-10041

[144376-63-6]



C₄₅H₈₂O₆ M 719.139

Prod. by *Gliocladium* sp. FO-1513. Inhibitor of acyl CoA: cholesterol acyltransferase. Oil. [α]_D¹⁸ –0.8° (c, 1 in CHCl₃).

Tomoda, H. *et al*, *J. Antibiot.*, 1992, **45**, 1202, 1669 (*isol*, *pmr*, *cmr*, *struct*)

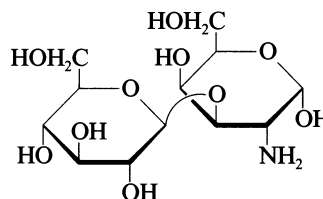
β -D-Glucopyranosyl(1 \rightarrow 3)-2-amino-2-deoxy-D-galactose

G-10042

2-Amino-2-deoxy-3-O-(β -D-glucopyranosyl)-D-galactose, 8CI.

3- β -Glucosylgalactosamine

[1811-33-2]



C₁₂H₂₃NO₁₀ M 341.314

α -Pyranose-form

N-Ac: [31718-87-3]. 3- β -Glucosyl-N-acetylgalactosamine

C₁₄H₂₅NO₁₁ M 383.352

Isol. from the partial acid hydrolysate of reduced chondroitin. Cryst. + 2H₂O. Mp 155-157°. [α]_D +19° (H₂O).

Davidson, E.A. *et al*, *J. Am. Chem. Soc.*, 1954, **76**, 5686.

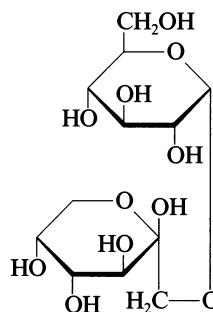
Wolfrom, M.L. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 1673 (*isol*)

1-O- α -D-Glucopyranosyl-D-fructose, 9CI

G-10043

Trehalulose

[51411-23-5]



β -Pyranose-form

C₁₂H₂₂O₁₁ M 342.299

Found (50% total carbohydrate content) in the honeydew produced by the sweet potato whitefly (*Bemisia tabaci*). Synthesised by the transferase action of yeast α -glucosidase on sucrose plus fructose. Anticaries sweetening agent. Amorph. powder. Mp 90-95°. [α]_D²⁰ +50° (c, 1.0 in H₂O).

β -Pyranose-form [90689-37-5]

2,3,4,5-Di-O-isopropylidene, 2',3',4',6'-tetrabenzyl: [74024-22-9].

C₄₆H₅₄O₁₁ M 782.926

[α]_D²² +22.5° (c, 1.3 in CHCl₃).

Avigad, G., *Biochem. J.*, 1959, **73**, 587 (*synth*)

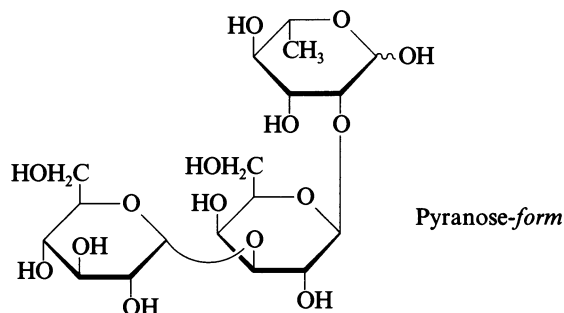
Pavia, A.A. *et al*, *Carbohydr. Res.*, 1980, **79**, 79 (*deriv*)

Munir, M. *et al*, *Carbohydr. Res.*, 1987, **164**, 477 (*synth*)

Bates, R.B. *et al*, *Carbohydr. Res.*, 1990, **201**, 342 (*isol*, *cmr*, *pmr*)

α -D-Glucopyranosyl-(1→3)- β -D-galactopyranosyl-(1→2)-L-rhamnose
[67109-67-5]

G-10044

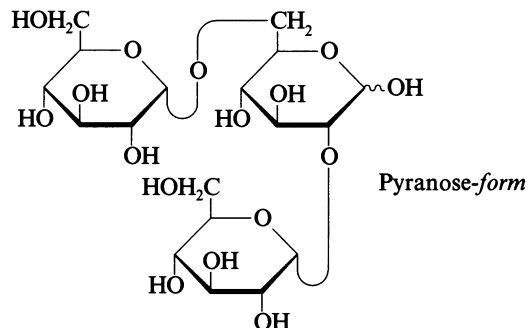
 $C_{18}H_{32}O_{15}$ M 488.442

Constit. of the repeating unit of the capsular antigen of *Klebsiella* serotype K70. $[\alpha]_D^{20} + 10^\circ$ (H_2O).

Dutton, G.G.S. *et al*, *Carbohydr. Res.*, 1978, **62**, 321.

α -D-Glucopyranosyl-(1→2)-[α -D-glucopyranosyl-(1→6)]-D-glucose, 9CI
[40983-71-9]

G-10046

 $C_{18}H_{32}O_{16}$ M 504.441

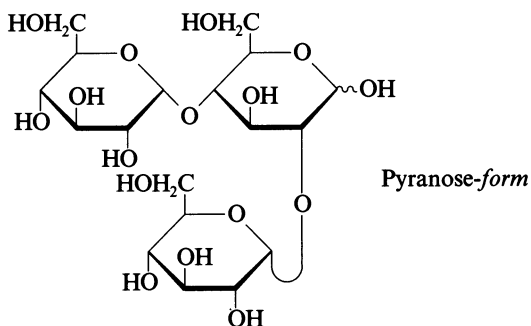
Product from acetylated dextran obt. from *Leuconostoc mesenteroides* strain NRRL B1397. $[\alpha]_D^{24} + 153^\circ$ (H_2O).

Sakakibara, K. *et al*, *Carbohydr. Res.*, 1972, **25**, 443.

Watanabe, T. *et al*, *Carbohydr. Res.*, 1980, **83**, 119.

α -D-Glucopyranosyl-(1→2)-[α -D-glucopyranosyl-(1→4)]-D-glucose, 9CI
Centose
[34174-65-7]

G-10045

 $C_{18}H_{32}O_{16}$ M 504.441

Constit. of honey. $[\alpha]_D^{15} + 142.3^\circ$ (c, 0.59 in H_2O).

β -Pyranose-form [29581-60-0]

Undeca-Ac: [29581-59-7].

 $C_{40}H_{54}O_{27}$ M 966.850

$[\alpha]_D^{15} + 103^\circ$ (c, 2.5 in $CHCl_3$).

Undeca-Me:

 $C_{29}H_{54}O_{16}$ M 658.736

$[\alpha]_D^{25} + 113^\circ$ (c, 1.5 in $CHCl_3$).

[19774-14-2]

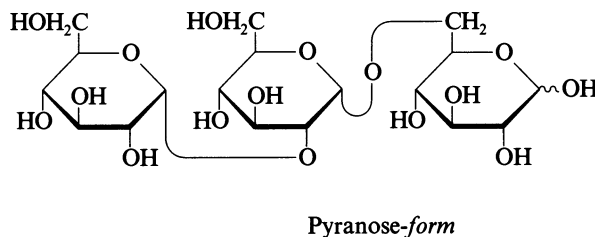
Siddiqui, I.R. *et al*, *Carbohydr. Res.*, 1968, **6**, 250 (*isol*)

Koeppen, B.H., *Carbohydr. Res.*, 1970, **13**, 417 (*synth*)

Nishi, K. *et al*, *Agric. Biol. Chem.*, 1975, **39**, 737 (*synth*)

α -D-Glucopyranosyl-(1→2)- α -D-glucopyranosyl-(1→6)-D-glucose, 9CI
6- α -Kojibiosylglucose
[40983-69-5]

G-10047

 $C_{18}H_{32}O_{16}$ M 504.441

Isol. from acetylated Dextran obt. from *Leuconostoc mesenteroides* strain NRRL B1397. $[\alpha]_D^{24} + 144^\circ$ (H_2O).

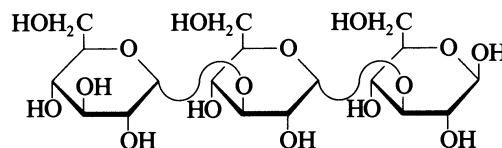
Sakakibara, K. *et al*, *Carbohydr. Res.*, 1972, **25**, 443.

Pozsgay, V. *et al*, *Carbohydr. Res.*, 1979, **75**, 310.

Watanabe, T. *et al*, *Carbohydr. Res.*, 1980, **83**, 119.

α -D-Glucopyranosyl-(1→3)- α -D-glucopyranosyl-(1→3)-D-glucose, 8CI
Nigerotriose
[23393-12-6]

G-10048

 $C_{18}H_{32}O_{16}$ M 504.441

Isol. from the acetolysate of D-glucan from the bracket fungus *Leatiporus sulphureus* and from *Leuconostoc mesenteroides* B dextran. Amorph. powder. $[\alpha]_D^{17} + 182.7^\circ$ (c, 1.1 in H_2O), $[\alpha]_D^{14} + 159^\circ$ (c, 1.2 in H_2O).

β -Pyranose-form

Undeca-Ac:

 $C_{40}H_{54}O_{27}$ M 966.850

Cryst. (EtOH). Mp 188-189°. $[\alpha]_D^{22} + 105.9^\circ$ (c, 1.1 in CHCl_3).

Me glycoside:

$\text{C}_{19}\text{H}_{34}\text{O}_{16}$ M 518.468

Cryst. (EtOH). Mp 214-215°. $[\alpha]_D^{19} + 137.6^\circ$ (c, 1.6 in H_2O).

Me glycoside, deca-Ac:

$\text{C}_{39}\text{H}_{54}\text{O}_{26}$ M 938.840

Cryst. (EtOH). Mp 183-186°. $[\alpha]_D^{19} + 89.4^\circ$ (c, 1.6 in CHCl_3).

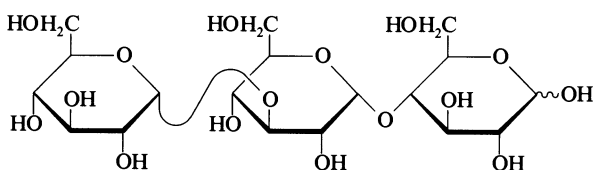
Peat, S. *et al*, *J. Chem. Soc.*, 1961, 623.

Yamauchi, F. *et al*, *Agric. Biol. Chem.*, 1969, 33, 103 (*isol*)

Shida, M. *et al*, *Carbohydr. Res.*, 1978, 60, 117.

Takeo, K. *et al*, *Carbohydr. Res.*, 1983, 113, 281 (*isol, synth*)

α -D-Glucopyranosyl-(1→3)- α -D-glucopyranosyl-(1→4)-D-glucose, 9CI **G-10049**
[69924-34-1]



Pyranose-form

$\text{C}_{18}\text{H}_{32}\text{O}_{16}$ M 504.441

Formed by partial acid hydrolysis of nigeran and isolichenin and by enzymic hydrolysis of elsinan. Possibly present in floridean starch. Powder. $[\alpha]_D^{25} + 169.5^\circ$ (c, 1.25 in H_2O).

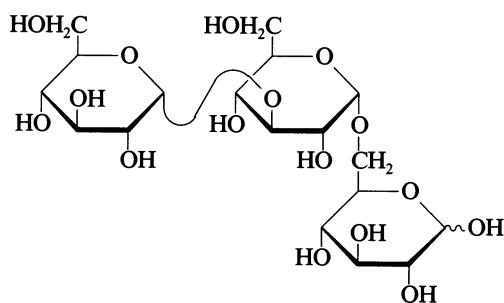
Barker, S.A. *et al*, *J. Chem. Soc.*, 1957, 2448.

Peat, S. *et al*, *J. Chem. Soc.*, 1961, 623.

Lukomskaya, I.S., *Enzymologia*, 1962, 14, 327 (*synth*)

Tsumuraya, Y. *et al*, *J. Appl. Biochem.*, 1979, 1, 235 (*synth*)

α -D-Glucopyranosyl-(1→3)-[α -D-glucopyranosyl-(1→6)]-D-glucose **G-10050**
3,6-Di- α -glucosylglucose
[23393-11-5]



Pyranose-form

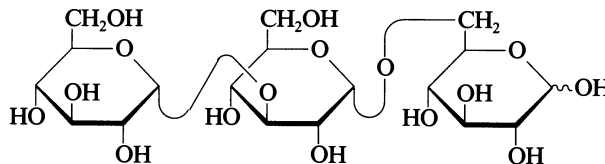
$\text{C}_{18}\text{H}_{32}\text{O}_{16}$ M 504.441

Prod. formed by acetolysed fragmentation of a dextran from *Leuconostoc mesenteroides* B. Foam + $\frac{1}{2}\text{H}_2\text{O}$. $[\alpha]_D^{14} + 133^\circ$ (c, 0.7 in H_2O) (+120°).

Kto, S. *et al*, *Bull. Chem. Soc. Jpn.*, 1982, 55, 2995 (*synth*)

Yamauchi, F. *et al*, *Agric. Biol. Chem.*, 1996, 33, 103 (*isol*)

α -D-Glucopyranosyl-(1→3)- α -D-glucopyranosyl-(1→6)-D-glucose, 8CI **G-10051**
6- α -Nigerosylglucose
[23477-45-4]



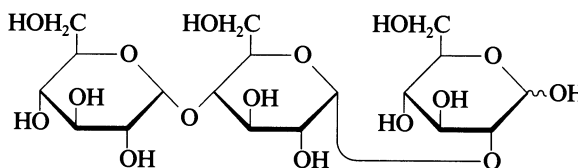
Pyranose-form

$\text{C}_{18}\text{H}_{32}\text{O}_{16}$ M 504.441

Formed by acetolysed fragmentation of a dextran from *Leuconostoc mesenteroides* B₄. $[\alpha]_D^{14} + 153^\circ$ (c, 2.5 in H_2O).

Yamauchi, F. *et al*, *Agric. Biol. Chem.*, 1969, 33, 103, 1295 (*isol*)

α -D-Glucopyranosyl-(1→4)- α -D-glucopyranosyl-(1→2)-D-glucose **G-10052**
4- α -Glucosylkojibiose
[58274-01-4]



Pyranose-form

$\text{C}_{18}\text{H}_{32}\text{O}_{16}$ M 504.441

$[\alpha]_D^{22} + 162^\circ$ (c, 0.5 in H_2O). Constit. of honey.

Transglycosylation product formed when cyclodextrin glycosyltransferase from *Bacillus megaterium* strain 5 is grown in a kojibiose medium.

α -Pyranose-form

Undeca-Ac:

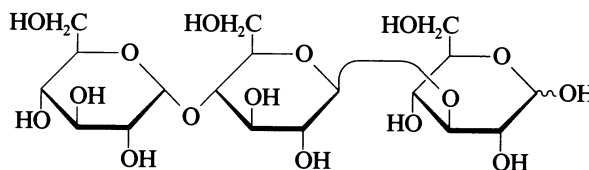
$\text{C}_{40}\text{H}_{54}\text{O}_{27}$ M 966.850

Mp 105-106°. $[\alpha]_D^{22} + 163^\circ$ (c, 0.5 in CHCl_3).

[21291-38-3]

Chiba, S. *et al*, *Agric. Biol. Chem.*, 1975, 39, 2353.

α -D-Glucopyranosyl-(1→4)- α -D-glucopyranosyl-(1→3)-D-glucose, 9CI **G-10053**
3- α -Maltosylglucose
[69924-35-2]



Pyranose-form

$\text{C}_{18}\text{H}_{32}\text{O}_{16}$ M 504.441

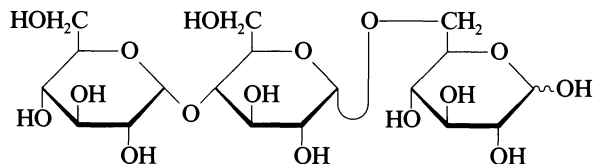
Isol. from the partial acid hydrolysate of nigeran and isolichenin.

Barker, S.A. *et al*, *J. Chem. Soc.*, 1957, 2448 (*isol*)

Peat, S. *et al*, *J. Chem. Soc.*, 1961, 623.

α -D-Glucopyranosyl-(1→4)- α -D-glucopyranosyl-(1→6)-D-glucose

G-10054

6- α -Maltosylglucose. *Isopanose*
[32581-33-2]

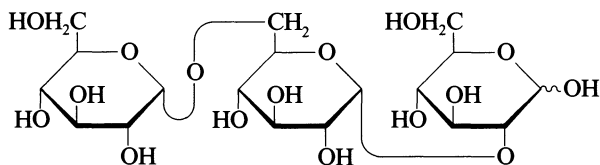
Pyranose-form

 $C_{18}H_{32}O_{16}$ M 504.441Formed by acid or enzymatic hydrol. of amylopectin, glycogen, pullulan, floridean starch and in yeast glycogen. Present in honey and beer. $[\alpha]_D^{20} + 128^\circ$ (H_2O).

[3810-66-0]

Peat, S. *et al*, *J. Chem. Soc.*, 1959, 3223 (*isol*)
Pazur, J.H. *et al*, *J. Biol. Stand.*, 1960, **235**, 297 (*synth*)
Siddiqui, I.R. *et al*, *CA*, 1968, **69**, 95213h (*isol*)
Bethgate, G.N. *et al*, *Chem. Ind. (London)*, 1969, 520 (*isol*)
Ogawa, K. *et al*, *CA*, 1970, **72**, 117680z.
Sakano, Y. *et al*, *Carbohydr. Res.*, 1978, **61**, 175. **α -D-Glucopyranosyl-(1→6)- α -D-glucopyranosyl-(1→2)-D-glucose, 9CI**

G-10055

2- α -Isomaltosylglucose
[40983-70-8]

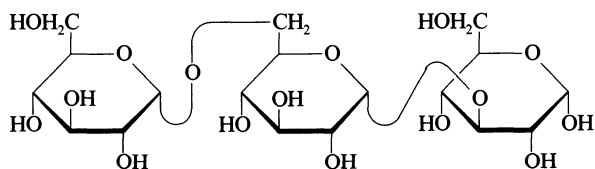
Pyranose-form

 $C_{18}H_{32}O_{16}$ M 504.441Isol. from acetylated dextran obt. from *Leuconostoc mesenteroides* strain NRRL B1397. Isol. from sake. Formed when *L. mesenteroides* was grown on a medium containing (1→2) linked glucobiose. $[\alpha]_D^{12} + 148^\circ$ (c, 1.8 in H_2O).

[25242-83-5, 55177-32-7]

Yamauchi, F. *et al*, *Agric. Biol. Chem.*, 1969, **33**, 1295 (*synth*)
Sakakibara, K. *et al*, *Carbohydr. Res.*, 1972, **25**, 443 (*synth*)
Baba, S. *et al*, *CA*, 1975, **82**, 153725h (*isol*)
Watanabe, T. *et al*, *Carbohydr. Res.*, 1980, **83**, 119. **α -D-Glucopyranosyl-(1→6)- α -D-glucopyranosyl-(1→3)-D-glucose, 8CI**

G-10056

3- α -Isomaltosylglucose
[23393-10-4] α -Pyranose-form $C_{18}H_{32}O_{16}$ M 504.441 $[\alpha]_D^{12} + 155^\circ$ (c, 0.7 in H_2O). Formed by acetolysed fragmentation of *Leuconostoc mesenteroides* B dextran formed when *L. mesenteroides* (NRRL B-512) was grown on a sucrose medium containing $\alpha(1\rightarrow3)$ linked glucobiose as an acceptor. Constit. of honey. Synth. enzymically by the action of potato T-enzyme on nigerose. **α -Pyranose-form**

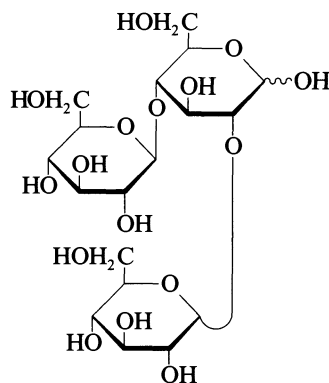
Undeca-Ac:

 $C_{40}H_{54}O_{27}$ M 966.850Cryst. (EtOH). Mp 120° . $[\alpha]_D^{22} + 111^\circ$ (c, 2.3 in $CHCl_3$).

[21291-02-1]

Abdullah, M. *et al*, *J. Chem. Soc.*, 1962, 176 (*synth*)Siddiqui, I.R. *et al*, *CA*, 1968, **69**, 95213h (*isol*)Yamauchi, F. *et al*, *Agric. Biol. Chem.*, 1969, **33**, 103, 1295 (*isol*) **α -D-Glucopyranosyl-(1→2)-[β -D-glucopyranosyl-(1→4)]-D-glucose**

G-10057



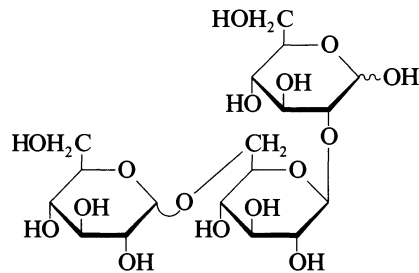
Pyranose-form

 $C_{18}H_{32}O_{16}$ M 504.441Formed when *Leuconostoc mesenteroides* (NRRLB-512) was grown on a medium containing $\beta(1\rightarrow4)$ linked glucobiose. $[\alpha]_D^{12} + 98^\circ$ (c, 0.9 in H_2O).

[25193-54-8]

Bailey, R.W. *et al*, *J. Chem. Soc.*, 1958, 1895.Yamauchi, F. *et al*, *Agric. Biol. Chem.*, 1969, **33**, 1295. **α -D-Glucopyranosyl-(1→6)- β -D-glucopyranosyl-(1→2)-D-glucose**

G-10058

2- β -Isomaltosylglucose

Pyranose-form

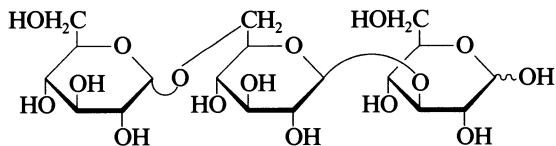
 $C_{18}H_{32}O_{16}$ M 504.441Formed when *Leuconostoc mesenteroides* (NRRL B-512) was grown on a medium containing $\beta(1\rightarrow2)$ linked glucobiose. $[\alpha]_D^{12} + 81^\circ$ (c, 0.4 in H_2O).

[25193-52-6]

Yamauchi, F. *et al*, *Agric. Biol. Chem.*, 1969, **33**, 1295.

α -D-Glucopyranosyl-(1→6)- β -D-glucopyranosyl-(1→3)-D-glucose
3- β -Isomaltosylglucose

G-10059

Prepd. from the partial acid hydrolysate of *Agrobacterium radiobacter* polysaccharide. Cryst. Mp 218-223°. $[\alpha]_D^{25} + 11^\circ$ (H₂O).Gorin, P.A.J. *et al*, *Can. J. Chem.*, 1961, **39**, 1067.

Pyranose-form

C₁₈H₃₂O₁₆ M 504.441Product formed when *Leuconostoc mesenteroides* (NRRL-B512) was grown on a medium containing β (1→3) linked glucobiose. Trace component of hydrolysate of 'insoluble' seaweed laminarin. $[\alpha]_D^{25} + 88^\circ$ (c, 0.7 in H₂O) (+67°).

[25242-84-6]

Peat, S. *et al*, *J. Chem. Soc.*, 1958, 729 (*isol*)Yamauchi, F. *et al*, *Agric. Biol. Chem.*, 1969, **33**, 1295 (*synth*) **α -D-Glucopyranosyl-(1→6)- β -D-glucopyranosyl-(1→6)-D-glucose, 9CI**
6- β -Isomaltosylglucose

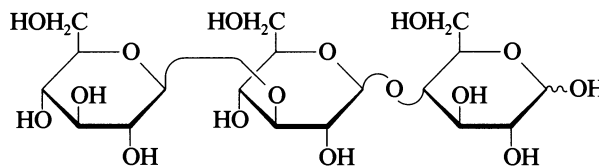
G-10060

 β -D-Glucopyranosyl-(1→3)- β -D-glucopyranosyl-(1→4)-D-glucose, 9CI

G-10062

4- β -Laminaribiosylglucose

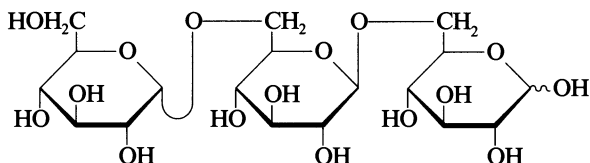
[32581-38-7]



Pyranose-form

C₁₈H₃₂O₁₆ M 504.441Present in the partial acid hydrolysates of lichenin and oat β -glucan. Cryst. (EtOH aq.). Mp 229-231°. $[\alpha]_D^{25} + 13.0^\circ$ (c, 1.4 in H₂O).

Undeca-Ac:

C₄₀H₅₄O₂₇ M 966.850Cryst. (EtOH). Mp 120-122°. $[\alpha]_D - 20^\circ$ (CHCl₃).Peat, S. *et al*, *J. Chem. Soc.*, 1957, 3916.Parrish, F.W. *et al*, *Can. J. Chem.*, 1960, **38**, 2094 (*isol*)Perlin, A.S. *et al*, *Can. J. Chem.*, 1962, **40**, 50 (*isol*)Takeo, K. *et al*, *Carbohydr. Res.*, 1986, **147**, 265 (*synth*)

Pyranose-form

C₁₈H₃₂O₁₆ M 504.441Product formed when *Leuconostoc mesenteroides* (NRRL B-512) was grown on a sucrose medium containing β (1→6) linked glucobiose. Constit. of nephritogenic glycopeptide from rat glomerular basement membrane. $[\alpha]_D^{25} + 65^\circ$ (c, 1.8 in H₂O).

[25193-56-0]

Yamauchi, F. *et al*, *Agric. Biol. Chem.*, 1969, **33**, 1295 (*synth*)Shibata, S. *et al*, *Carbohydr. Res.*, 1980, **81**, 345. **β -D-Glucopyranosyl-(1→2)- β -D-glucopyranosyl-(1→2)-D-glucose, 8CI**

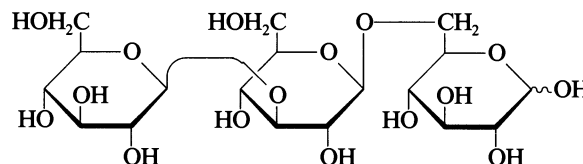
G-10061

 β -D-Glucopyranosyl-(1→3)- β -D-glucopyranosyl-(1→6)-D-glucose, 9CI

G-10063

6- β -Laminaribiosylglucose. 3- β -Glucosylgentiobiose

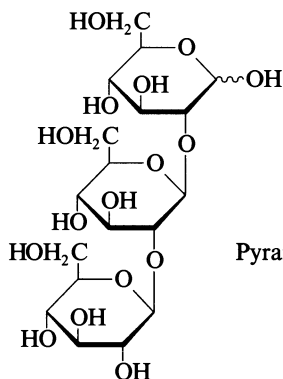
[32581-37-6]



Pyranose-form

C₁₈H₃₂O₁₆ M 504.441Isol. from partial acid hydrol. of insoluble laminarin and yeast β -glucan. Amorph. $[\alpha]_D - 6^\circ$ (H₂O).

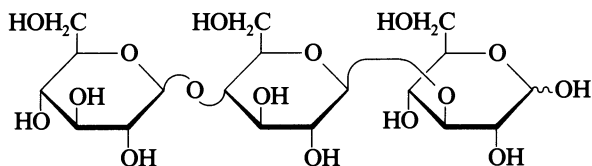
Undeca-Ac:

C₄₀H₅₄O₂₇ M 966.850Needles (EtOH). Mp 216-217°. $[\alpha]_D - 27.4^\circ$ (CHCl₃).Peat, S. *et al*, *J. Chem. Soc.*, 1958, 724, 3862; 1960, 175 (*isol*, *synth*)Handa, N. *et al*, *Nature (London)*, 1961, **192**, 1078 (*isol*)

Pyranose-form

C₁₈H₃₂O₁₆ M 504.441

β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 3)-D-glucose, 9CI, 8CI **G-10064**
 3- β -Cellobiosylglucose
 [32581-36-5]



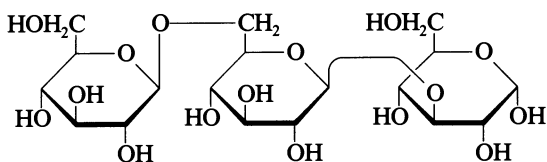
Pyranose-form

$C_{18}H_{32}O_{16}$ M 504.441
 Obt. from partial acid and enzymic hydrol. of lichenin, oat β -glucan, barley β -glucan and from the cell-wall of bamboo. Cryst. (EtOH aq.). Mp 236-239°. $[\alpha]_D^{25} + 11.7^\circ$ (c, 1.5 in H_2O).

Undeca-Ac:
 $C_{40}H_{54}O_{27}$ M 966.850
 Cryst. Mp 108-110°. $[\alpha]_D - 8.3^\circ$ ($CHCl_3$).

Peat, S. *et al*, *J. Chem. Soc.*, 1957, 3916 (*isol*)
 Moscatelli, E.A. *et al*, *J. Biol. Chem.*, 1961, 236, 2858.
 Perlin, A.S. *et al*, *Can. J. Chem.*, 1962, 40, 50 (*isol*)
 Yamamoto, R. *et al*, *Carbohydr. Res.*, 1978, 67, 275.
 Kato, Y. *et al*, *Carbohydr. Res.*, 1982, 109, 233.
 Takeo, K. *et al*, *Carbohydr. Res.*, 1986, 147, 265 (*synth*)

β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-(1 \rightarrow 3)-D-glucose, 9CI **G-10065**
 3- β -Gentiobiosylglucose
 [32581-32-1]



α -Pyranose-form

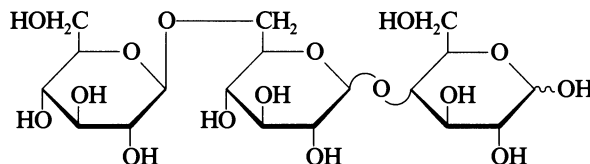
$C_{18}H_{32}O_{16}$ M 504.441
 Isol. from the partial acid hydrolysates of sclerotia from *Sclerotinia libertiana*, laminarin, 'insoluble' laminarin, and yeast β -glucan. Constit. in the carbohydrate moiety of a highly toxic saponin of Lucerne *Medicago sativa*. Repeating unit of the extracellular β -D-glucan from the fungus *Botrytis cinerea* responsible for clarification difficulties in wine technology. Prisms + 2 H_2O . Mp 223-223° dec. $[\alpha]_D^{15} - 4.35^\circ \rightarrow 1.58^\circ$ (c, 1.0 in H_2O).

α -Pyranose-form
 Undeca-Ac:
 $C_{40}H_{54}O_{27}$ M 966.850
 Cryst. (EtOH). Mp 179-180°. $[\alpha]_D^{15} - 11^\circ$ ($CHCl_3$).

β -Pyranose-form [47751-20-2]
 Undeca-Ac: Prisms (EtOH). Mp 169-170°. $[\alpha]_D^{15} - 27.9^\circ$ ($CHCl_3$).
 [34213-21-3]

Peat, S. *et al*, *J. Chem. Soc.*, 1960, 175; 1958, 3862 (*isol*, *synth*)
 Turvey, J.R. *et al*, *J. Chem. Soc.*, 1960, 2366 (*synth*)
 Handa, N. *et al*, *Nature (London)*, 1961, 192, 1078 (*isol*)
 Gestetner, B., *Phytochemistry*, 1971, 10, 2221 (*isol*)
 Ueno, Y. *et al*, *Carbohydr. Res.*, 1973, 28, 140 (*isol*)
 Dubourdiou, D. *et al*, *Carbohydr. Res.*, 1981, 93, 294 (*isol*)

β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-(1 \rightarrow 4)-D-glucose **G-10066**
 4- β -Gentiobiosylglucose
 [100676-05-9]



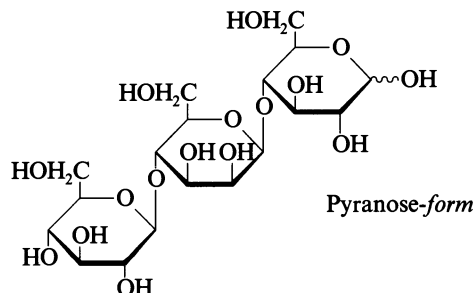
Pyranose-form

$C_{18}H_{32}O_{16}$ M 504.441
 Prod. by transferase action on cellobiose of β -glucosides of *Aspergillus niger*, barley and *Neurospora crassa*. Constit. of exopolysaccharide from *Rhizobium* sp. strain ANU280. Host specificity determinant in *R. sp.* $[\alpha]_D + 10.2^\circ$ (H_2O).

Undeca-Ac:
 $C_{40}H_{54}O_{27}$ M 966.850
 Cryst. Mp 205°. $[\alpha]_D - 13^\circ$ ($CHCl_3$).

Crook, E.M. *et al*, *Biochem. J.*, 1957, 65, 1 (*isol*)
 Anderson, F.B. *et al*, *Biochem. J.*, 1959, 71, 407 (*isol*)
 Berger, L.S. *et al*, *Biochem. Biophys. Res. Commun.*, 1961, 6, 62 (*isol*)
 Djordjevic, S.P. *et al*, *Carbohydr. Res.*, 1986, 148, 87 (*isol*, *cmr*)

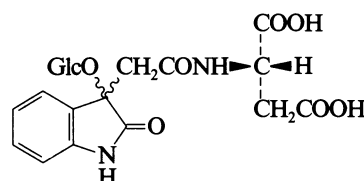
β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-mannopyranosyl-(1 \rightarrow 4)-D-glucose, 9CI **G-10067**
 [59905-64-5]



Pyranose-form

$C_{18}H_{32}O_{16}$ M 504.441
 Isol. from the glucumannan from the fibres of Sunn hemp (*Crotalaria juncea*). $[\alpha]_D^{30} - 8^\circ$ (c, 0.6 in H_2O).
 Das-gupta, P.C. *et al*, *Carbohydr. Res.*, 1976, 48, 73 (*isol*)

N-[[3-(β -D-Glucopyranosyloxy)-2,3-dihydro-2-oxo-1H-indol-3-yl]acetyl] aspartic acid, 9CI **G-10068**
 [99694-85-6]

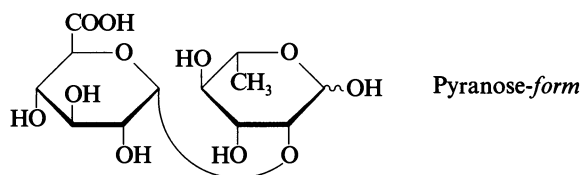


$C_{20}H_{24}N_2O_{12}$ M 484.416
 Constit. of the seedlings of *Vicia faba*. Metab. of indolacetic acid. Powder.
 Tsurumi, S. *et al*, *Plant Physiol.*, 1985, 79, 667 (*isol*)

2-O- α -D-Glucopyranosyl-L-rhamnose

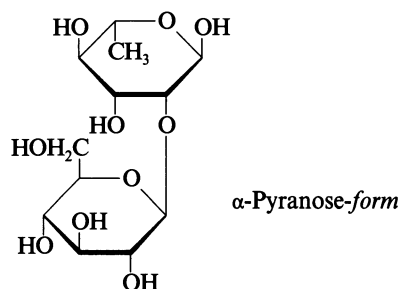
G-10069

[81689-25-0]

 $C_{12}H_{20}O_{11}$ M 340.283Isol. from a partial acid hydrolysate of *Brachychiton diversifolium* (*Sterculia caudata*) gum. $[\alpha]_D^{25} +63^\circ$ (H₂O).Hirst, E.L. et al, *J. Chem. Soc.*, 1958, 1942.King, R.R. et al, *Can. J. Chem.*, 1974, **52**, 3913 (*synth*)Colson, P. et al, *Carbohydr. Res.*, 1976, **47**, 1 (*cmr*)Gagnaire, D.Y. et al, *Macromolecules*, 1982, **15**, 126 (*nmr*)Kenne, L. et al, *The Polysaccharides*, Academic Press, ed. Aspinall, G.O., 1983, **2**, 320, 323, 340 (*occur*)Shashakov, A.S. et al, *Magn. Reson. Chem.*, 1988, **26**, 735 (*conformn*)2-O- β -D-Glucopyranosyl-L-rhamnose

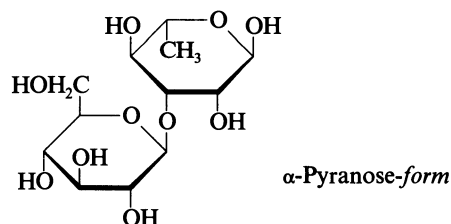
G-10070

[55018-83-2]

 $C_{12}H_{22}O_{10}$ M 326.300Constit. in the repeating unit of the capsular antigen of *Klebsiella* K17. $[\alpha]_D^{24} +9.5^\circ$ (c, 2.0 in H₂O). α -Pyranose-form*Benzyl glycoside*: [55018-80-9]. $C_{19}H_{28}O_{10}$ M 416.424Syrup. $[\alpha]_D^{24} -48.8^\circ$ (c, 1.0 in EtOH).*Benzyl glycoside, hexa-Ac*: $C_{31}H_{40}O_{16}$ M 668.647Mp 147-148°. $[\alpha]_D^{24} -46.6^\circ$ (c, 1.0 in CHCl₃).King, R.R. et al, *Can. J. Chem.*, 1974, **52**, 3913 (*synth*)Colson, P. et al, *Carbohydr. Res.*, 1976, **47**, 1 (*cmr*)Dutton, G.G.S. et al, *Carbohydr. Res.*, 1980, **80**, 147 (*occur*)3-O- β -D-Glucopyranosyl-L-rhamnose

G-10071

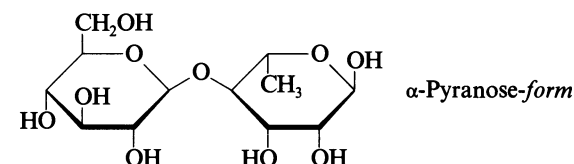
[55018-84-3]

 $C_{12}H_{22}O_{10}$ M 326.300Constit. of the repeating unit of the capsular antigens of *Klebsiella* K23, K48 and in the repeating unit of a teichuronic acid isol. from the cell walls of *Bacillus megaterium*. $[\alpha]_D^{24} -11.4^\circ$ (c, 2.0 in H₂O). α -Pyranose-form*Benzyl glycoside*: [55018-78-5]. $C_{19}H_{28}O_{10}$ M 416.424Syrup. $[\alpha]_D^{24} -68.4^\circ$ (c, 1.0 in EtOH).*Benzyl glycoside, 2',3',4',6'-tetra-Ac*: $C_{27}H_{36}O_{14}$ M 584.573Mp 138-139°. $[\alpha]_D^{24} -37.4^\circ$ (c, 1.0 in CHCl₃).4-O- β -D-Glucopyranosyl-L-rhamnose

G-10072

Scillabiose

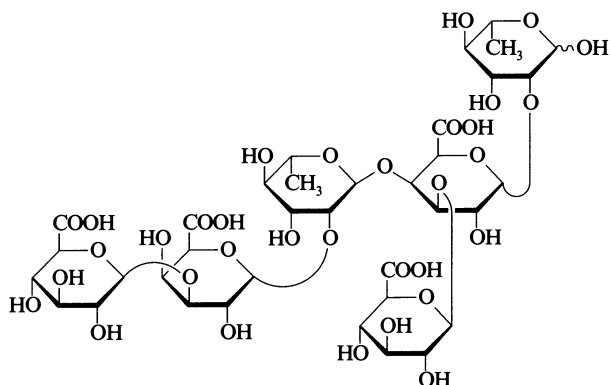
[40525-07-3]

 $C_{12}H_{22}O_{10}$ M 326.300Isol. from the partial acid hydrolysate of glycosides from *Scilla maritima*; constit. in the repeating unit of the capsular antigen of *Klebsiella* K55. $[\alpha]_D -24.2^\circ$ (c, 1.1 in H₂O).*Phenylosazone*: Mp 164°. α -Pyranose-form*Hepta-Ac*: [39687-44-0]. $C_{26}H_{36}O_{17}$ M 620.560Cryst. (2-propanol). Mp 139-140°. $[\alpha]_D -62.3^\circ$ (c, 2.6 in CHCl₃).*Me glycoside*: [39687-45-1]. $C_{13}H_{24}O_{10}$ M 340.327 $[\alpha]_D -57.5^\circ$ (c, 1.5 in MeOH).*Me glycoside, 2,3-O-isopropylidene, tetra-Ac*: [39687-43-9]. $C_{24}H_{36}O_{14}$ M 548.540Cryst. (EtOH). Mp 158.5-159°. $[\alpha]_D -30.6^\circ$ (c, 1.7 in CHCl₃). β -Pyranose-form*1,2-Methylorthoacetate, penta-Ac*: Cryst. (Et₂O/petrol). Mp 206°. $[\alpha]_D^{20} +1.03^\circ$ (c, 1.65 in CHCl₃).Stoll, A. et al, *Helv. Chim. Acta*, 1952, **35**, 2495 (*isol*)Bebault, G.M. et al, *Can. J. Chem.*, 1972, **50**, 3373 (*synth*)Torgov, V.I. et al, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1975, 455; *Bull. Acad. Sci. USSR, Div. Chem. Sci. (Engl. Transl.)*, 1975, 385 (β -form deriv)Bebault, G.M. et al, *Carbohydr. Res.*, 1978, **64**, 199 (*occur*)Shashakov, A.S. et al, *Magn. Reson. Chem.*, 1988, **26**, 735 (*cmr*)

β -D-Glucopyranuronosyl-(1→3)- α -D-galactopyranuronosyl-(1→2)- α -L-rhamnopyranosyl-(1→4)-[β -D-glucopyranuronosyl-(1→3)]- α -D-galactopyranuronosyl-(1→2)-L-rhamnopyranose

G-10073

[71562-84-0]



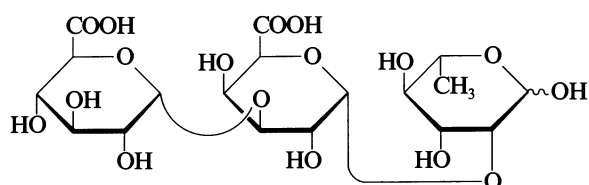
$C_{36}H_{54}O_{33}$ M 1014.803

Isol. from the hydrolysate of the mucilage in the roots of *Abelmoschus manihot*, *Althaea officinalis* and from the inner bark of *Hydrangia paniculata*. Powder. Mp 172-176° dec. $[\alpha]_D^{20} + 81.4^\circ$ (c, 1.4 in H_2O).

Tomoda, M. et al, *Chem. Pharm. Bull.*, 1977, 25, 1357, 2910; 1979, 27, 1651; 1980, 28, 824.

α -D-Glucopyranuronosyl-(1→3)- α -D-galactopyranuronosyl-(1→2)-L-rhamnose

G-10074



Pyranose-form

$C_{18}H_{28}O_{17}$ M 516.409

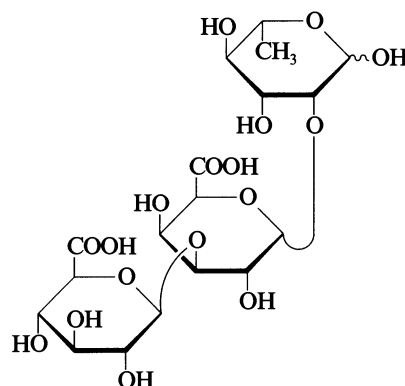
Isol. from the partial acid hydrolysate of Panniculatan a mucilaginous polysaccharide obt. from the inner bark of *Panniculata hydrangia*. $[\alpha]_D^{20} + 79.4^\circ$ (c, 1.2 in H_2O).

[65562-08-5]

Tomoda, M. et al, *Chem. Pharm. Bull.*, 1977, 25, 2910 (isol)

β -D-Glucopyranuronosyl-(1→3)- α -D-galactopyranuronosyl-(1→2)-L-rhamnose

G-10075



$C_{18}H_{28}O_{17}$ M 516.409

Isol. from the partial acid hydrolysates of bark of the kapok tree (*Ceiba pentandra*), bark of *Hydrangia paniculata*, mucilage of *Abelmoschus manihot* and gums of *Sterculia setigera* and *S. caudata*. $[\alpha]_D + 84.5^\circ$ (H_2O).

[122620-32-0]

Aspinall, G.O. et al, *J. Chem. Soc.*, 1965, 4325.

Tomoda, M. et al, *Chem. Pharm. Bull.*, 1979, 27, 1651 (isol)

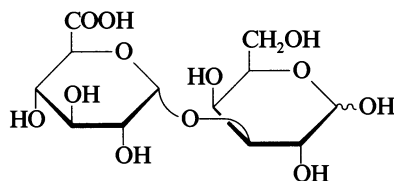
Tomoda, M. et al, *Carbohydr. Res.*, 1986, 151, 29; 1989, 190, 323 (isol)

Raju, S.T. et al, *Carbohydr. Res.*, 1989, 191, 321 (isol)

3-O- α -D-Glucopyranuronosyl-D-galactose, 9CI

G-10076

[96688-25-4]



Pyranose-form

$C_{12}H_{20}O_{12}$ M 356.283

Isol. from the partial acid hydrolysates of ketha (*Feronia elephantum*) gum and mesquite (*Prosopis juliflora*) gum (probably present in the original polymer as a 4-Me deriv.).

Me glycoside, hexa-Me ether, Me ester:

$C_{20}H_{36}O_{12}$ M 468.497

Bp_{0.2} 175°.

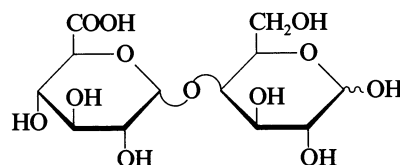
White, E.V., *J. Am. Chem. Soc.*, 1947, 69, 2264.

Mathur, G.P. et al, *J. Sci. Ind. Res., Sect. B*, 1954, 13, 452 (isol)

4-O- α -D-Glucopyranuronosyl-D-galactose

G-10077

[14402-41-6]



$C_{12}H_{20}O_{12}$ M 356.283

Isol. from partial acid hydrolysates of *Acacia karoo*, neem (*Melia azadirachta*), *Terminalia tomentosa* gums and from tragacanthic gum, the major polysaccharide component of gum tragacanth. $[\alpha]_D^{20} + 87^\circ$ (c, 1.4 in H₂O), $[\alpha]_D^{20} + 58^\circ$ (c, 1.2 in H₂O).

Ba salt: $[\alpha]_D + 110^\circ$ (+67°)(H₂O).

Me glycoside, hexa-Me, Me ester:

C₂₀H₃₆O₁₂ M 468.497

BP_{0.5-1} 195-225° (bath).

Mukherjee, S.H. *et al*, *J. Am. Chem. Soc.*, 1955, **77**, 422.

Charlson, A.J. *et al*, *J. Chem. Soc.*, 1955, 1428 (*isol*)

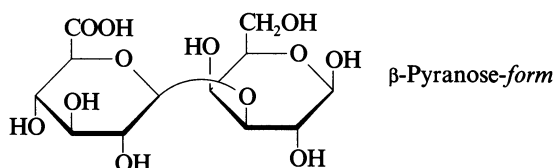
Aspinall, G.O. *et al*, *J. Chem. Soc. C*, 1967, 1086 (*isol*)

Audichya, J.D. *et al*, *Indian J. Chem., Sect. B*, 1976, **14**, 601 (*isol*)

3-O-β-D-Glucopyranuronosyl-D-galactose, G-10078

9CI, 8CI

[14446-49-2]



C₁₂H₂₀O₁₂ M 356.283

Constit. of Chondroitin 4-sulfate and *isol.* from the partial acid hydrolysate of the capsular polysaccharides of *Escherichia coli* K12, *Klebsiella* K type 20 and from *Terminalia tomentosa* gum. $[\alpha]_D^{30} + 11.8^\circ$ (c, 1.7 in H₂O).

6'-Me ester: [16741-26-7].

C₁₃H₂₂O₁₂ M 370.310

Syrup. $[\alpha]_D^{25} - 5.5^\circ$ (c, 0.55 in H₂O).

β-Pyranose-form

Benzyl glycoside: [16741-24-5].

C₁₉H₂₆O₁₂ M 446.407

Prisms (EtOH). Mp 160-162° dec. $[\alpha]_D^{25} - 41.3^\circ$ (c, 1.0 in H₂O).

Benzyl glycoside, Me ester: [16741-23-4].

C₂₀H₂₈O₁₂ M 460.434

Cryst. (EtOH). Mp 205-207°. $[\alpha]_D^{22} - 38.5^\circ$ (c, 1.0 in H₂O).

Benzylglycoside, hexa-Ac, Me ester:

C₃₂H₄₀O₁₈ M 712.657

Mp 154-155°. $[\alpha]_D^{30} - 43.3^\circ$ (c, 0.9 in CHCl₃).

[4343-50-4, 16741-22-3]

Roden, L., *Biochim. Biophys. Acta*, 1966, **127**, 252 (*isol*)

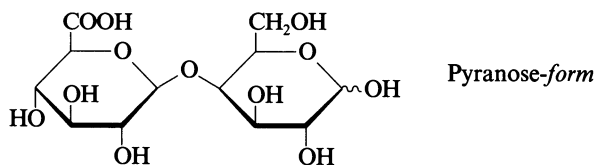
Flowers, H.M., *Carbohydr. Res.*, 1967, **4**, 312 (*synth*)

Choy, Y.M. *et al*, *J. Bacteriol.*, 1972, **112**, 635 (*occur*)

Audichya, T.D. *et al*, *Indian J. Chem., Sect. B*, 1976, **14**, 601.

Rohrmann, K. *et al*, *Eur. J. Biochem.*, 1985, **148**, 463 (*occur*)

4-O-β-D-Glucopyranuronosyl-D-galactose G-10079



C₁₂H₂₀O₁₂ M 356.283

Isol. from the partial acid hydrolysate of the extracellular polysaccharide from *Xanthomonas stewartii*. $[\alpha]_D + 15^\circ$ (H₂O).

[29388-50-9]

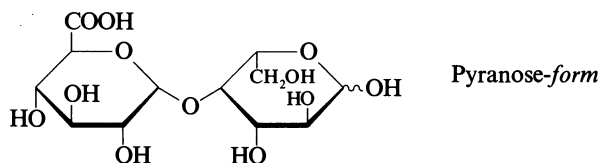
Gorin, P.A.J. *et al*, *Can. J. Chem.*, 1961, **39**, 2282 (*isol*)

Bajpai, K.S. *et al*, *Carbohydr. Res.*, 1970, **14**, 259 (*ir*)

4-O-α-D-Glucopyranuronosyl-L-galactose, G-10080

9CI

[50692-51-8]

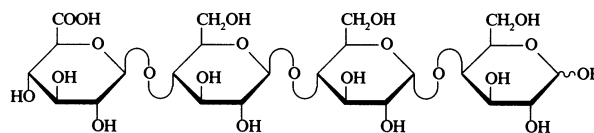


C₁₂H₂₀O₁₂ M 356.283

Isol. from the partial acid hydrolysate of the polysaccharide from the red alga *Anatheca dentata*. $[\alpha]_D^{20} + 24^\circ$ (c, 0.5 in H₂O).

Nunn, J.R. *et al*, *Carbohydr. Res.*, 1973, **29**, 281.

β-D-Glucopyranuronosyl-(1→4)-β-D-glucopyranosyl-(1→4)-α-D-glucopyranosyl-(1→4)-D-galactose G-10081

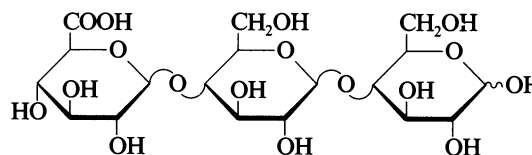


C₂₄H₄₀O₂₂ M 680.567

Isol. from the partial acid hydrolysate of *Pneumococcus* type VIII capsular polysaccharide. $[\alpha]_D + 65^\circ$ (H₂O).

Jones, J.K.N. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 2787.

β-D-Glucopyranuronosyl-(1→4)-β-D-glucopyranosyl-(1→4)-D-glucose G-10082



C₁₈H₃₀O₁₇ M 518.425

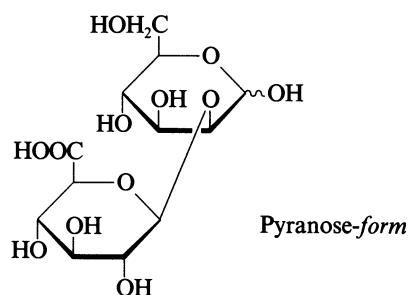
Isol. from the partial acid hydrolysate of *Pneumococcus* type VIII capsular polysaccharide. $[\alpha]_D + 12^\circ$ (H₂O).

Jones, J.K.N. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 2787.

2-O-β-D-Glucopyranuronosyl-D-mannose, G-10083

8CI

[4539-91-7]



C₁₂H₂₀O₁₂ M 356.283

Present as a structural unit in plant gums. Isol. from or detected in partial acid hydrolysates of gums from the following plants, damson (*Prunus insitia*), cherry (*P. cerasus*), *Anogeissus latifolia* (gum ghatti), *A. schimperi*, *Hakea acicularis*, *Virgilia oroboides*, *Albizia zygia*, and *Asparagus filicinus*. Also isol. from the partial acid hydrolysates of the extracellular polysaccharides of *Xanthomonas oryzae* and *X. campestris*. $[\alpha]_D - 32^\circ$ (H₂O).

Ba salt: $[\alpha]_D - 30^\circ$ (H₂O).

Me glycoside, hexa-Me, 6'-Me ester: [70051-79-5].

C₂₀H₃₆O₁₂ M 468.497

Mp 141°. $[\alpha]_D - 22^\circ$ (CHCl₃).

[52554-63-9, 52554-64-0]

Stephen, A.M., *J. Chem. Soc.*, 1956, 4487.

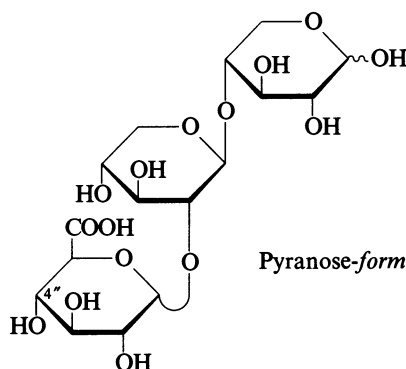
Drummond, D.W. *et al*, *J. Chem. Soc.*, 1961, 3908 (*isol*)

Smith, F., *J. Chem. Soc.*, 1961, 4892 (*isol*, Me gly)

Sloneker, J.H. *et al*, *Can. J. Chem.*, 1962, 40, 2066 (*isol*)

Misaki, A. *et al*, *Can. J. Chem.*, 1962, 40, 2204 (*isol*)

α -D-Glucopyranuronosyl-(1→2)- β -D-xylopyranosyl-(1→4)-D-xylose **G-10084**



C₁₆H₂₆O₁₅ M 458.372

O⁴-Me: [10365-86-3]. 4-O-Methyl- α -D-glucopyranosyl-(1→2)- β -D-xylopyranosyl-(1→4)-D-xylose

C₁₇H₂₈O₁₅ M 472.399

Isol. from the partial acid hydrolysates of white spruce (*Picea glauca*), western hemlock (*Tsuga heterophylla*), jute fibre, maritime pine (*Pinus pinaster*), aspen (*Populus tremuloides*) hemicelluloses. Prob. also from white elm (*Ulmus americana*), milkweed (*Asclepias syriaca*) floss and oat hull hemicelluloses. Cryst. + 3H₂O. Mp 180-187°. $[\alpha]_D + 59^\circ$ (H₂O).

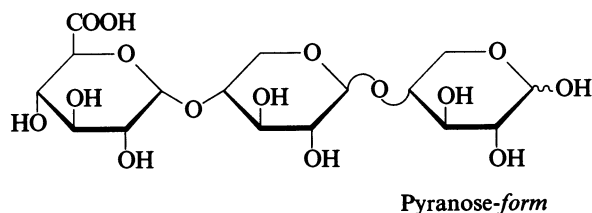
Hamilton, J.K. *et al*, *J. Am. Chem. Soc.*, 1957, 79, 6464 (*isol*)

Roudier, A.J. *et al*, *Bull. Soc. Chim. Fr.*, 1960, 28, 2074 (*isol*)

Srivastava, H.C. *et al*, *J. Org. Chem.*, 1961, 26, 3958 (*isol*)

Timell, T.E., *J. Org. Chem.*, 1962, 27, 1804.

α -D-Glucopyranuronosyl-(1→4)- β -D-xylopyranosyl-(1→4)-D-xylose **G-10085**

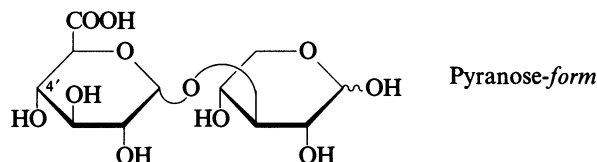


C₁₆H₂₆O₁₅ M 458.372

Isol. from the partial acid hydrolysate of corn-hull hemicellulose. $[\alpha]_D + 38^\circ$ (H₂O).

Whistler, R.L. *et al*, *J. Am. Chem. Soc.*, 1955, 77, 2212 (*isol*)

3-O- α -D-Glucopyranuronosyl-D-xylose, 9CI **G-10086**
[85269-45-0]



C₁₁H₁₈O₁₁ M 326.257

Isol. from partial acid hydrolysates of sunflower (*Helianthus annuus*) head hemicellulose, pear cell-wall xylan, from various wheat-straw preparations and from corn hulls. $[\alpha]_D + 18^\circ$ to $+ 57^\circ$ (H₂O).

Pyranose-form

4'-Me: [66634-88-6]. 3-O-(4-O-Methyl- α -D-glucopyranuronosyl)-D-xylose, 9CI

C₁₂H₂₀O₁₁ M 340.283

Minor component of *Pinus radiata* hemicellulose, may be present in trace amts. in other hemicelluloses. $[\alpha]_D + 65^\circ$ (H₂O).

Hexa-Me:

C₁₇H₃₀O₁₁ M 410.417

$[\alpha]_D + 12.4^\circ$ (H₂O).

Chanda, S.K. *et al*, *J. Chem. Soc.*, 1951, 1240.

Adams, G.A., *Can. J. Chem.*, 1952, 30, 698; 1953, 31, 134 (*isol*)

Bishop, C.T., *Can. J. Chem.*, 1953, 31, 134; 1955, 33, 1521 (*isol*)

Aspinall, G.O. *et al*, *J. Chem. Soc.*, 1954, 1731 (*isol*)

Brasch, D.J. *et al*, *Tappi*, 1956, 39, 581, 768 (*isol*, deriv)

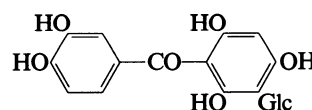
Bailey, R.W., *Oligosaccharides*, Pergamon, 1965, 4, 137 (*occur*, deriv)

Yoshida, S. *et al*, *Agric. Biol. Chem.*, 1990, 54, 1319 (*isol*)

3-Glucosyl-2,3',4,4',6-pentahydroxybenzophenone **G-10087**

3-Glucosylmaclurin

[92631-83-9]



C₁₉H₂₀O₁₁ M 424.360

Constit. of leaves of *Mangifera indica*. Yellow amorph. powder. $[\alpha]_D^{25} + 33.2^\circ$ (c, 0.9 in MeOH).

6''-(p-Hydroxybenzoyl): [92665-82-2].

C₂₆H₂₄O₁₃ M 544.468

Constit. of leaves of *M. indica*. Yellow amorph. powder.

$[\alpha]_D^{31} - 50.0^\circ$ (c, 0.80 in MeOH).

6''-(p-Hydroxybenzoyl), 2''-(3,4,5-trihydroxybenzoyl): [92631-84-0].

C₃₃H₂₈O₁₇ M 696.574

Constit. of leaves of *M. indica*. Yellow amorph. powder.

$[\alpha]_D^{24} - 181.3^\circ$ (c, 0.4 in MeOH).

2''-(p-Hydroxybenzoyl), 6''-(3,4,5-trihydroxybenzoyl): [92631-85-1].

C₃₃H₂₈O₁₇ M 696.574

Constit. of leaves of *M. indica*. Pale yellow needles (H₂O). Mp 193-194°. $[\alpha]_D^{24} - 143.8^\circ$ (c, 0.4 in MeOH).

2'',3'',6''-Tris-(3,4,5-trihydroxybenzoyl): [92631-86-2].

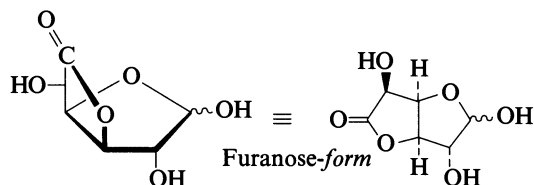
C₄₀H₃₂O₂₃ M 880.679

Constit. of leaves of *M. indica*. Yellow amorph. powder
+ 1H₂O. $[\alpha]_D^{30} -48.8^\circ$ (c, 0.4 in MeOH).

Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1984, **32**, 2676.

Glucurono-6,3-lactone, 9CI, 8CI G-10088

Glucrolactone, INN. *Glucuronolactone. Dicurone.*
Glucosygyuronsan. Numerous tradenames
[63-29-6]



C₆H₈O₆ M 176.126

Antiarthritic drug, detoxicant.

***D*-form** [32449-92-6]

Found in many plant gums in polymeric combination with other carbohydrates. Important structural constituent of practically all fibrous and connective tissues in the animal organism. Mp 177°. $[\alpha]_D^{22} +19.4^\circ$ (H₂O).

▷ LD₅₀ (rat, orl) 10700 mg/kg. LZ8930000.

Oxime:

C₆H₅NO₆ M 191.140

Mp 151°. $[\alpha]_D +14.4^\circ$ (H₂O).

5-Benzyl:

C₁₃H₁₄O₆ M 266.250

$[\alpha]_D^{20} -3.0^\circ$ (5 min.) (c, 2.0 in Py).

5-Pivaloyl: Mp 155-157°. $[\alpha]_D +92^\circ \rightarrow +48^\circ$ (CHCl₃/Py).

2,5-Dipivaloyl: Mp 169-170°. $[\alpha]_D +102^\circ \rightarrow +45^\circ$ (CHCl₃/Py).

***α*-*D*-form**

1,2-O-Cyclohexylidene: *1,2-O-Cyclohexylidene-α-D-glucurono-6,3-lactone*

C₁₂H₁₆O₆ M 256.255

Mp 148-149°. $[\alpha]_D^{20} +48.1^\circ$ (c, 2.0 in CHCl₃).

α-1,2-O-Cyclohexylidene, 5-benzyl:

C₁₉H₂₂O₆ M 346.379

Mp 94-95°. $[\alpha]_D^{20} +48.5^\circ$ (c, 2.0 in CHCl₃).

1,2-O-Cyclohexylidene, 5-mesyl: Mp 139-140°. $[\alpha]_D^{20} +43.4^\circ$ (c, 2.1 in CHCl₃).

1,2,5-Tri-Ac: *1,2,5-Tri-O-acetyl-α-D-glucurono-6,3-lactone*

C₁₂H₁₄O₉ M 302.237

Mp 110-112°. $[\alpha]_D^{24} +203.6^\circ$ (CHCl₃).

***β*-*D*-form**

1,2,5-Tri-Ac: *1,2,5-Tri-O-acetyl-β-D-glucurono-6,3-lactone*
Mp 194-195°. $[\alpha]_D^{23} +84.1^\circ$ (CHCl₃).

***α*-*D*-furanose-form**

Me glycoside: *Methyl α-D-glucofuranosidurono-6,3-lactone*

C₇H₁₀O₆ M 190.152

Mp 148°. $[\alpha]_D^{23} +149^\circ$ (H₂O), $[\alpha]_D^{23} +167^\circ$ (EtOH).

Me glycoside, 5-benzyl, 2-Me:

C₁₅H₁₈O₆ M 294.304

Mp 117-118°. $[\alpha]_D^{20} +107.1^\circ$ (c, 1.0 in CHCl₃).

Me glycoside, 2,5-di-Me:

C₉H₁₄O₆ M 218.206

Mp 129-130°. $[\alpha]_D^{24} +151^\circ$ (c, 0.4 in CHCl₃).

***β*-*D*-furanose-form**

Me glycoside: *Methyl β-D-furanosidurono-6,3-lactone*

C₇H₁₀O₆ M 190.152

Mp 139°. $[\alpha]_D^{23} -59^\circ$ (H₂O), $[\alpha]_D^{23} -61^\circ$ (EtOH).

Me glycoside, 5-benzyl, 2-Me:

C₁₅H₁₈O₆ M 294.304

$[\alpha]_D^{20} -7.5^\circ$ (c, 1.0 in CHCl₃).

Me glycoside, 2,5-di-Me:

C₉H₁₄O₆ M 218.206

Mp 90-91°. $[\alpha]_D^{24} -2.3^\circ$ (c, 0.9 in CHCl₃), $[\alpha]_D^{24} +2.0^\circ$ (c, 1.0 in H₂O).

Reeves, R.E. *et al*, *J. Am. Chem. Soc.*, 1940, **62**, 1616.

Teague, R.S., *Adv. Carbohydr. Chem.*, 1954, **9**, 185 (rev)

Paulsen, H. *et al*, *Chem. Ber.*, 1966, **99**, 908.

Jeffrey, G.A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1966, 211.

Timpe, W. *et al*, *Carbohydr. Res.*, 1975, **39**, 53.

Koester, R. *et al*, *Justus Liebigs Ann. Chem.*, 1975, 752 (synth, pmr)

Keglević, D. *et al*, *Carbohydr. Res.*, 1981, **92**, 51.

Litvak, M.M. *et al*, *Bioorg. Khim.*, 1982, **8**, 1133 (synth)

Salem, M.A. *et al*, *Carbohydr. Res.*, 1982, **101**, 255 (synth)

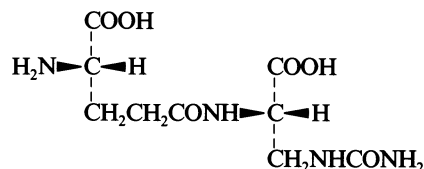
Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th Ed., Akademie-Verlag, Berlin, 1987, 463.

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, GFM000.

***γ*-Glutamylalbizziine**

G-10089

3-[(Aminocarbonyl)amino]-N-*γ*-glutamylalanine, 9CI



C₉H₁₆N₄O₆ M 276.249

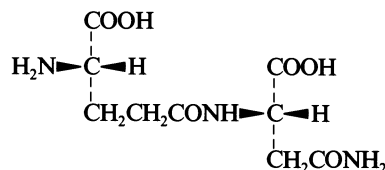
***L*-*L*-form** [38681-06-0]

Isol. from *Acacia georginae* seeds. $[\alpha]_D^{20} +0.8^\circ$ (c, 1.12 in H₂O).

Ito, K. *et al*, *Phytochemistry*, 1972, **11**, 2541 (isol)

***γ*-Glutamylasparagine**

G-10090



C₉H₁₅N₃O₆ M 261.234

***L*-*L*-form** [38681-07-1]

Isol. from the seeds of *Acacia georginae*.

Ito, K. *et al*, *Phytochemistry*, 1972, **11**, 2541 (isol)

Kasai, T. *et al*, *Agric. Biol. Chem.*, 1973, **37**, 685, 2155 (synth, pmr)

***N*'-Glutamylaspartic acid**

G-10091

HOOCC(H)(NH₂)CH₂CH₂CONHCH(COOH)CH₂COOH

C₉H₁₄N₂O₇ M 262.219

***L*-*L*-form** [16804-55-0]

Constit. of seeds of *Vigna radiata*, *Vicia faba* and *Acacia georginae*. Mp 192-195° dec. $[\alpha]_D^{18} +19.5^\circ$ (c, 2 in N HCl).

Le Quesne, W.J. *et al*, *J. Chem. Soc.*, 1950, 1954 (synth)

Taschner, E. *et al*, *Justus Liebigs Ann. Chem.*, 1961, **646**, 127 (synth)

Klieger, E. *et al*, *Justus Liebigs Ann. Chem.*, 1963, **661**, 193 (synth)

Ishikawa, Y. *et al*, *Agric. Biol. Chem.*, 1967, **31**, 490 (synth)

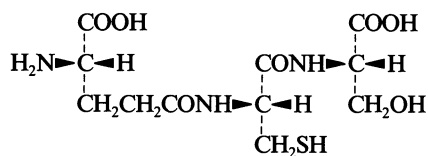
Meguro, H. *et al*, *Agric. Biol. Chem.*, 1968, **32**, 518 (ord)

Ito, K. *et al*, *Phytochemistry*, 1972, **11**, 2541 (occur)

Kasai, T. *et al*, *Phytochemistry*, 1986, **25**, 679 (occur)

γ -Glutamylcysteinylserine

[144331-30-6]



$\text{C}_{11}\text{H}_{19}\text{N}_3\text{O}_7\text{S}$ M 337.353

Constit. of many grasses incl. *Triticum aestivum*.
Glutathione analogue.

Klapheck, S. *et al*, *Bot. Acta*, 1992, **105**, 174 (*isol*)

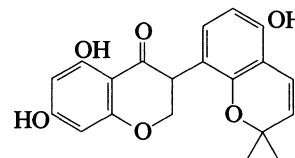
G-10092

Aoyagi, Y. *et al*, *Agric. Biol. Chem.*, 1982, **46**, 1939 (*isol*)
Roesel, R.A. *et al*, *Clin. Chim. Acta*, 1984, **140**, 133 (*occur*)
Kasai, T. *et al*, *Phytochemistry*, 1986, **25**, 679 (*N*⁵-Acetyl-*N*²-glutamylornithine)

Glyasperin F

[145382-61-2]

G-10096



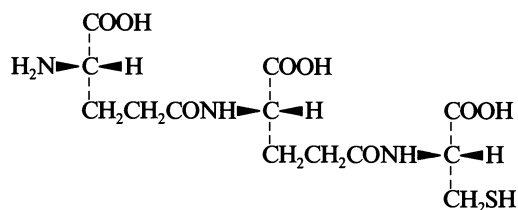
$\text{C}_{20}\text{H}_{18}\text{O}_6$ M 354.359

Isol. from the roots of *Glycyrrhiza aspera*. Needles
(Me_2CO). Mp 164-166°. $[\alpha]_{\text{D}}^{20} -4.6^\circ$ (c, 0.5 in
 $\text{Me}_2\text{CO}/\text{CHCl}_3$).

Zeng, L. *et al*, *Heterocycles*, 1992, **34**, 1813 (*isol*, *pmr*, *cmr*, *struct*)

γ -Glutamyl- γ -glutamylcysteine

G-10093



$\text{C}_{13}\text{H}_{21}\text{N}_3\text{O}_8\text{S}$ M 379.390

L-L-form

S-Me: [102148-93-6]. (γ -Glutamyl- γ -glutamyl)-*S*-methylcysteine

$\text{C}_{14}\text{H}_{23}\text{N}_3\text{O}_8\text{S}$ M 393.417

Constit. of the seeds of *Vigna radiata*.

Kasai, T. *et al*, *Phytochemistry*, 1986, **25**, 679.

*N*⁵-Glutamylglycine

G-10094



$\text{C}_7\text{H}_{12}\text{N}_2\text{O}_5$ M 204.182

L-form

Cryst. (EtOH aq.). Mp 191-192°. $[\alpha]_{\text{D}}^{20} +10.4^\circ$ (c, 1.154 in H_2O).

Z-Glu-Gly-OH: Cryst. ($\text{Et}_2\text{O}/\text{pet. ether}$). Mp 158°.

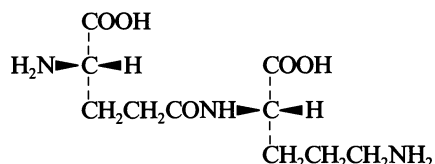
Taschner, E. *et al*, *Justus Liebigs Ann. Chem.*, 1961, **646**, 127 (*synth*)

Schröder, E. *et al*, *Justus Liebigs Ann. Chem.*, 1962, **656**, 190; 1963, **661**, 193 (*synth*)

Losse, G. *et al*, *Chem. Ber.*, 1963, **96**, 204 (*synth*)

*N*²- γ -Glutamylornithine

G-10095



$\text{C}_{10}\text{H}_{19}\text{N}_3\text{O}_5$ M 261.277

L-L-form [56523-61-6]

Constit. of the mushroom *Lentinus edodes*. Also found in human urine. Cryst. + $1\text{H}_2\text{O}$. Mp 209°. $[\alpha]_{\text{D}}^{25} +5.2^\circ$ (c, 1 in 1M HCl).

*N*⁵-Ac: [102148-92-5]. *N*⁵-Acetyl-*N*²- γ -glutamylornithine, 9CI

$\text{C}_{12}\text{H}_{21}\text{N}_3\text{O}_6$ M 303.314

Constit. of the seeds of *Vigna radiata*. $[\alpha]_{\text{D}}^{22} -6.7^\circ$ (c, 2.3 in H_2O).

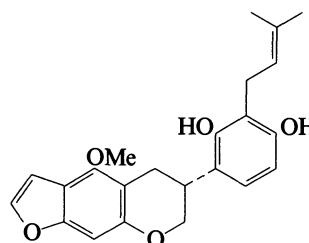
Losse, G. *et al*, *Justus Liebigs Ann. Chem.*, 1964, **676**, 232 (*synth*)

Lou, M.F., *Biochemistry*, 1975, **14**, 3503 (*isol*)

Glyasperin G

[145382-62-3]

G-10097



$\text{C}_{23}\text{H}_{24}\text{O}_5$ M 380.440

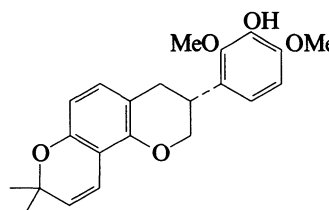
Isol. from the roots of *Glycyrrhiza aspera*. Amorph. powder. $[\alpha]_{\text{D}}^{20} +8.3^\circ$ (c, 0.19 in CHCl_3).

Zeng, L. *et al*, *Heterocycles*, 1992, **34**, 1813 (*isol*, *pmr*, *cmr*, *struct*)

Glyasperin H

[145382-63-4]

G-10098



$\text{C}_{22}\text{H}_{24}\text{O}_5$ M 368.429

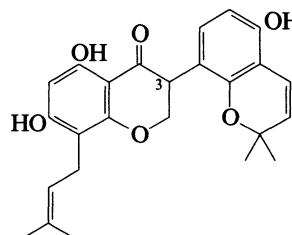
Isol. from the roots of *Glycyrrhiza aspera*. Prisms (Me_2CO). Mp 58-60°. $[\alpha]_{\text{D}}^{20} +8.0^\circ$ (c, 0.1 in CHCl_3).

Zeng, L. *et al*, *Heterocycles*, 1992, **34**, 1813 (*isol*, *pmr*, *cmr*, *struct*)

Glyasperin J

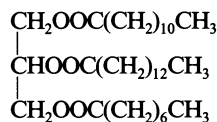
[145382-65-6]

G-10099



C₂₅H₂₆O₆ M 422.477

Isol. from the roots of *Glycyrrhiza aspera*. Amorph. powder. $[\alpha]_D^{20} - 39^\circ$ (c, 0.69 in MeOH). C-3 config. not determined.

Zeng, L. *et al*, *Heterocycles*, 1992, **34**, 1813 (*isol, pmr, cmr, struct*)**Glycerol 1-dodecanoate 2-tetradecanoate 3-octanoate** G-101002-Myristocaprylolaurin. α -Caprylo- β -myristo- α' -laurinC₃₇H₇₀O₆ M 610.956

Isol. from coconut oil. Cryst. Mp 14.1°.

Bomer, A., *Chem.-Ztg.*, 1914, **38**, 844 (*isol*)Heiduschka, A. *et al*, *J. Prakt. Chem.*, 1928, **120**, 145 (*synth*)**Glycerol 1-(9-octadecenoate) 2-octanoate 3-tetradecanoate** G-101012-Caprylooleomyristin. α -Oleo- β -caprylo- α' -myristinC₄₃H₈₀O₆ M 693.101

Isol. from palm kernel oil. Cryst. Mp 14.8°.

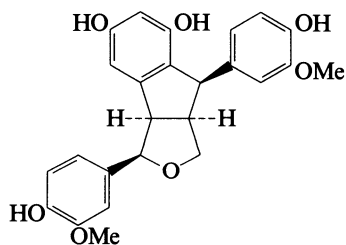
Heiduschka, A. *et al*, *J. Prakt. Chem.*, 1928, **120**, 145 (*synth*)**Glycerol tri-9,11,13,15-octadecatetraenoate** G-10102

Triparinarin

C₅₇H₈₆O₆ M 867.303Isol. from the seed fat of *Parinarium laurinum*. Cryst. Mp 49-50°.Riley, J.P., *J. Chem. Soc.*, 1951, 291 (*isol*)**Gnetifolin F** G-10103

3,3a,8,8a-Tetrahydro-3,8-bis(4-hydroxy-3-methoxyphenyl)-1H-indeno[1,2-c]furan-5,7-diol, 9CI

[140208-77-1]

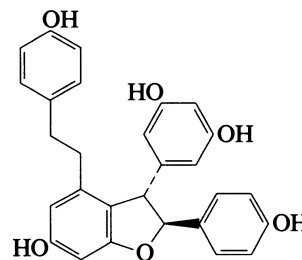
C₂₅H₂₄O₇ M 436.460

Constit. of the lianas of *Gnetum parvifolium*. Off-white prisms (C₆H₆/EtOH). Mp 144-148°. Racemic.

Lin, M. *et al*, *Phytochemistry*, 1991, **30**, 4201 (*isol, pmr, cmr, crystal struct*)**Gnetin F**

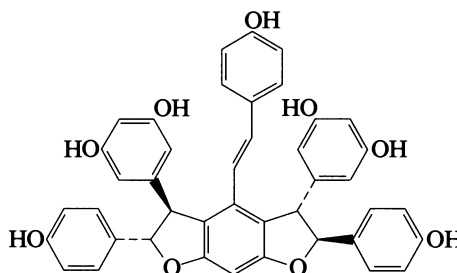
[105093-75-2]

G-10104

C₂₈H₂₄O₆ M 456.494Constit. of *Welwitschia mirabilis*. Mp 127-128°.Lins, A.P. *et al*, *Bull. Soc. Chim. Belg.*, 1986, **95**, 737 (*isol, pmr, cmr*)**Gnetin H**

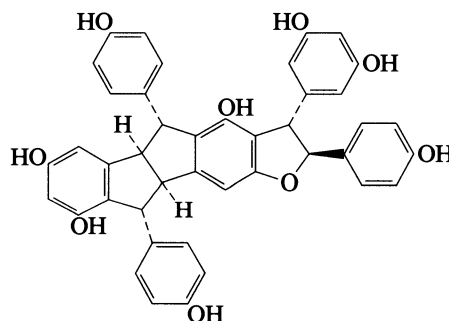
[105132-92-1]

G-10105

C₄₂H₃₂O₉ M 680.709Constit. of *Welwitschia mirabilis*. Mp 184-186°.Lins, A.P. *et al*, *Bull. Soc. Chim. Belg.*, 1986, **95**, 737 (*isol, pmr, cmr*)**Gnetin I**

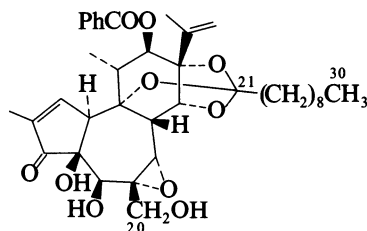
[105093-74-1]

G-10106

C₄₂H₃₂O₉ M 680.709Constit. of *Welwitschia mirabilis*. Mp 203-205°.Lins, A.P. *et al*, *Bull. Soc. Chim. Belg.*, 1986, **95**, 737 (*isol, pmr, cmr*)

Gnidilatin

Updated Entry replacing G-00625
[60195-69-9]



$C_{37}H_{48}O_{10}$ M 652.780

Constit. of *Gnidia latifolia*. Antileukaemic agent. Oil. $[\alpha]_D^{23} + 52^\circ$ (c, 0.24 in $CHCl_3$).

20-Hexadecanoyl: [60195-67-7]. **Gnidilatin 20-palmitate**

$C_{53}H_{78}O_{11}$ M 891.193

Constit. of *G. latifolia*. Oil. $[\alpha]_D^{23} + 45^\circ$ (c, 0.58 in $CHCl_3$).

De(benzoyloxy): [1404-62-2]. **Simplexin**. Wikstrotoxin.

Pimelea factor P_1 . *Dapnopsis* factor R_3

$C_{30}H_{44}O_8$ M 532.673

Isol. from *Pimelea simplex* and *Wikstroemia monticola*. Responsible for St. George disease in cattle.

▷ Toxic. VW7780000.

De(benzoyloxy), 22,23,24,25,26,27-hexadehydro: [99305-57-4]. **Excoecaria factor B_4** . **Excoecaria factor O_1** . **Peddiea factor V_1**

$C_{30}H_{38}O_8$ M 526.625

Constit. of *Excoecaria oppositifolia* and *Peddiea volkensii*.

De(benzoyloxy), 22,23,24,25-tetradehydro: [92219-48-2].

Excoecariotoxin. **Excoecaria factor A_3** . **Excoecaria factor B_3**

$C_{30}H_{40}O_8$ M 528.641

Constit. of *Daphne* sp., *Diarthron* sp., *E.* spp. and *Synapholepsis* sp. $[\alpha]_D^{23} + 55^\circ$ (c, 0.73 in $CHCl_3$).

Kupchan, S.M. *et al*, *J. Org. Chem.*, 1976, **41**, 3850 (*Gnidilatin*)

Zayed, S. *et al*, *Experientia*, 1977, **33**, 1554 (*Simplexin*)

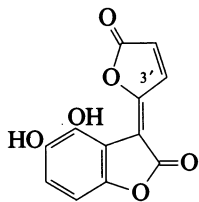
Jolad, S.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1983, **46**, 675 (*isol, cmr, Simplexin*)

Adolf, W. *et al*, *Phytochemistry*, 1985, **24**, 2047 (*Peddiea factors*)

Wiriyachitra, P. *et al*, *Planta Med.*, 1985, 368 (*Excoecaria factor O, Excoecariotoxin*)

Gomphilactone

5,6-Dihydroxy-3-(5-oxo-2(5H)-furanilydene)-2(3H)-benzofuranone, 9CI
[78570-66-8]



$C_{12}H_6O_6$ M 246.176

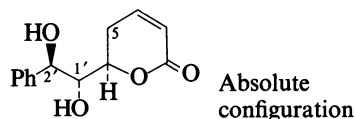
Constit. of the fruiting bodies of *Gomphidius glutinosus* and *G. maculatus*. Dark red cryst. (EtOAc/ $CHCl_3$). Mp 192-195°.

Jaegers, E. *et al*, *Z. Naturforsch., C*, 1981, **36**, 488 (*isol*)

G-10107**Goniodiol****G-10109**

Updated Entry replacing G-00650

6-(1,2-Dihydroxy-2-phenylethyl)-5,6-dihydro-2H-pyran-2-one, 9CI
[96422-52-5]



$C_{13}H_{14}O_4$ M 234.251

Constit. of *Goniothalamus* spp. Cryst. ($CHCl_3$). Mp 110°. $[\alpha]_D^{30} + 75.76^\circ$ ($CHCl_3$).

l'-Ac: [96422-53-6]. **Goniodiol monoacetate**

$C_{15}H_{16}O_5$ M 276.288

From *G.* spp. Cryst. ($CHCl_3$ /pet. ether). Mp 140°. $[\alpha]_D^{30} + 145.66^\circ$ ($CHCl_3$).

Di-Ac: [96405-61-7]. **Goniodiol diacetate**

$C_{17}H_{18}O_6$ M 318.326

From *G.* spp. Cryst. ($CHCl_3$ /pet. ether). Mp 150°. $[\alpha]_D^{30} + 84.5^\circ$ ($CHCl_3$).

5β-Hydroxy: [96405-62-8]. **Goniotriol**

$C_{13}H_{14}O_5$ M 250.251

From *G.* spp. Flakes (MeOH). Mp 173°. $[\alpha]_D^{30} + 161.11^\circ$ (Py).

5β-Hydroxy, 2'-Ac: **8-Acetylgoniotriol**

$C_{15}H_{16}O_6$ M 292.288

Constit. of *G. giganteus*. Cryst. (EtOAc/hexane). Mp 158-159°. $[\alpha]_D^{22} + 30^\circ$ (c, 0.4 in EtOH).

Talapatra, S.K. *et al*, *Indian J. Chem., Sect. B*, 1985, **24**, 29.

Alkofahi, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 1371 (*cryst struct*)

Fang, X.-P. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1990, 1655 (8-Acetylgoniotriol)

Fang, X.-P. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 1034 (*cryst struct*)

Wu, Y.-C. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 1077 (*cryst struct*)

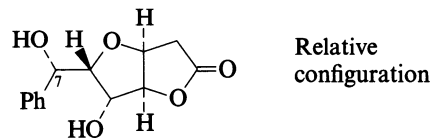
Shing, T.K.M. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1992, 1907 (*synth*)

Wu, Y.-C. *et al*, *Phytochemistry*, 1992, **31**, 2851 (*isol, pmr, cmr*)

Shing, T.K.M. *et al*, *Tetrahedron Lett.*, 1992, **33**, 3333 (*synth, abs config*)

Goniofufurone**G-10110**

3,6-Anhydro-2-deoxy-7-C-phenyl-ido-heptonic acid γ-lactone, 9CI
[129578-06-9]



$C_{13}H_{14}O_5$ M 250.251

Isol. from the stem bark of *Goniothalamus giganteus*.

Cytotoxin. Cryst. (EtOAc/hexane). Mp 152-154°. $[\alpha]_D^{22} + 9^\circ$ (c, 0.5 in EtOH).

7-Epimer: [136778-39-7]. **Epigoniofufurone**

$C_{13}H_{14}O_5$ M 250.251

Isol. from the stem bark of *G. giganteus*. Mp 190-192°. $[\alpha]_D^{22} + 108^\circ$ (c, 0.2 in EtOH).

Fang, X.P. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1990, 1655 (*isol, pmr, cmr, struct*)

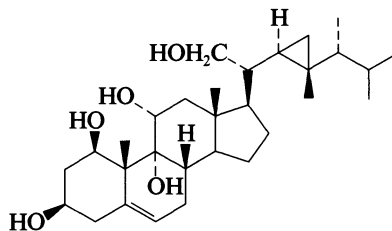
Fang, X.P. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 1034 (*epimer*)

Murphy, P.J. *et al*, *J. Chem. Soc., Chem. Commun.*, 1992, 1096 (*synth*)

Shing, T.K.M. *et al*, *Tetrahedron*, 1992, **48**, 8659 (*synth, abs config*)

Gorgost-5-ene-1,3,9,11,21-pentol

G-10111

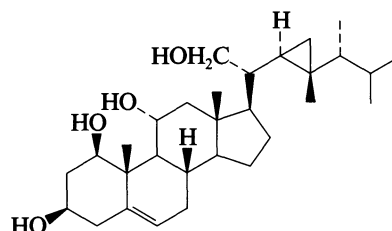
C₃₀H₅₀O₅ M 490.722

(1β,3β,9α,11α)-form [147151-92-6]

Constit. of *Lobophytum strictum*. Cryst. Mp 301-303°.[α]_D –33° (c, 0.78 in Py).Kobayashi, M. et al, *J. Chem. Res., Synop.*, 1993, 112 (isol, pmr, cmr)

Gorgost-5-ene-1,3,11,21-tetrol

G-10112

C₃₀H₅₀O₄ M 474.723

(1β,3β,11α)-form [147151-93-7]

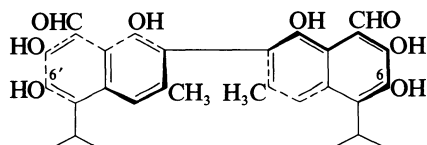
Constit. of *Lobophytum strictum*. Cryst. Mp 270-272°.[α]_D –23° (c, 1.2 in Py).Kobayashi, M. et al, *J. Chem. Res., Synop.*, 1993, 112 (isol, pmr, cmr)

Gossypol

G-10113

Updated Entry replacing G-00672

1,1',6,6',7,7'-Hexahydroxy-3,3'-dimethyl-5,5'-bis(1-methylethyl)-[2,2'-binaphthalene]-8,8'-dicarboxaldehyde, 9CI.
Thespesin
[303-45-7]



Absolute configuration

C₃₀H₃₀O₈ M 518.562

Atropisomeric compd., occurs naturally in both (+)- and (±)-forms. Tautomeric in polar solvents with intramolecular bis-lactol and bis-ketol tautomers.

▷ DU3100000.

(±)-form [20300-26-9]

Constit. of *Thespesia populnea*. Pale-yellow needles (pet. ether), deep-yellow prisms + Me₂CO (Me₂CO), large elongated plates (Me₂CO aq.). Mp 181-183°. [α]_D¹⁹ +445° (c, 0.15 in CHCl₃).

▷ LD₅₀ (mus, ipr) 35 mg/kg. Exp. reprod. effects. DU3101000.

Hexa-Me ether: [17273-30-2].

Mp 242-244°. [α]_D +177° (CHCl₃).

(±)-form [40112-23-0]

Toxic component of cotton boll cavities. Used as 0.2% EtOH soln. for detn. of Sn(IV); for photometric detn. of Ge. Antispermatic props. Male antifertility agent, undergoing widespread trials in the Peoples' Republic of China. Shows anti-HIV activity. Cryst. in three forms (Et₂O, CHCl₃, pet. ether). Mp 184°, Mp 199°, Mp 214°.

▷ Adverse effects reported when used therapeutically. Exp. reprod. effects.

Hexa-Ac: [30719-67-6].

Mp 276-279°.

▷ Exp. reprod. effects. DU3103000.

Bisphenylhydrazone: Yellow plates (C₆H₆). Mp 303°.

6-Me ether: [54302-42-0].

C₃₁H₃₂O₈ M 532.589Constit. of the roots of *Gossypium* spp. Yellow cryst.(C₆H₆/hexane). Mp 146-149°.

6,6'-Di-Me ether: [1110-58-3].

C₃₂H₃₄O₈ M 546.616From *G.* spp. Golden-yellow cryst. (C₆H₆/hexane). Mp 181-184°.

Hexa-Me ether: Cryst. in three forms, two colourless and one red. Mp 158-160° (red), Mp 221°, Mp 231-232°.

2-Aminoethylsulfonate: [87606-98-2]. *GSN* (as disodium salt). *Metaphin* (as disodium salt)

Immunosuppressive, antiviral agent.

[62770-38-1, 90141-22-3]

Vioque-Pizarro, A., *Anal. Chim. Acta*, 1951, 5, 529 (detn, Sn)Adams, R. et al, *Chem. Rev.*, 1960, 60, 555 (rev)Bell, A., *Phytopathology*, 1967, 57, 759.Bhakuni, D.S. et al, *Experientia*, 1968, 24, 109 (isol)King, T.J. et al, *Tetrahedron Lett.*, 1968, 261 (isol)Wood, A.B. et al, *Chem. Ind. (London)*, 1969, 1738 (conformn)Edwards, J.D., *J. Am. Oil Chem. Soc.*, 1970, 47, 441 (synth)Abou-Donia, M.B. et al, *Lipids*, 1970, 5, 938 (metab)Talipov, S.T. et al, *Zh. Anal. Khim.*, 1970, 25, 1420 (detn, Ge)Stipanovic, R.D. et al, *Phytochemistry*, 1975, 14, 1077.O'Brien, D.H. et al, *J. Org. Chem.*, 1978, 43, 1105 (nmr)Aripov, U.A. et al, *Khim.-Farm. Zh.*, 1983, 17, 908 (pharmacol, deriv)Sega, S.J. et al, *Gossypol*, Plenum Press, N.Y., 1985 (book)Masciadri, R. et al, *J. Chem. Soc., Chem. Commun.*, 1985, 1573 (biosynth)Talipov, S.A. et al, *Khim. Prir. Soedin.*, 1985, 21, 835; 1986, 22,112; *Chem. Nat. Compd. (Engl. Transl.)*, 797, 108 (cryst struct)Ibragimov, B.T. et al, *Khim. Prir. Soedin.*, 1985, 21, 837; 1986, 22,113; *Chem. Nat. Compd. (Engl. Transl.)*, 799, 110 (cryst struct)Wu, D.F. et al, *Clin. Pharmacol. Ther. (St. Louis)*, 1986, 39, 613

(pharmacol)

Stipanovic, R.D. et al, *J. Chem. Soc., Chem. Commun.*, 1986, 100

(biosynth)

Sampath, D.S. et al, *J. Chem. Soc., Chem. Commun.*, 1986, 649

(cd, resoln)

Lacombe, L. et al, *J. Nat. Prod. (Lloydia)*, 1987, 50, 277 (cmr)Tyson, R., *Chem. Ind. (London)*, 1988, 118 (hplc, resoln)Huang, L. et al, *Collect. Czech. Chem. Commun.*, 1988, 53, 2664

(cd, abs config)

Lin, T.-S., *Antimicrob. Agents Chemother.*, 1989, 33, 2149 (anti-

HIV activity)

Wu, D.F., *Drugs*, 1989, 38, 333 (pharmacol)Brzezinski, B. et al, *J. Mol. Struct.*, 1990, 239, 23 (tautom, ir)Marciniak, B. et al, *J. Chem. Soc., Perkin Trans. 2*, 1991, 1359

(pmr, tautom)

Jaroszewski, J.W. et al, *Chirality*, 1992, 4, 216 (props)Jaroszewski, J.W. et al, *Planta Med.*, 1992, 58, 454 (occur)*Martindale, The Extra Pharmacopoeia*, 30th edn., Pharmaceutical

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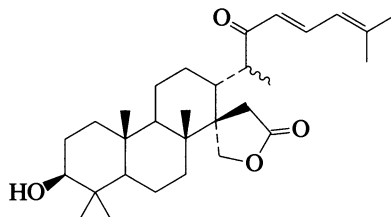
Akhila, A. et al, *Phytochemistry*, 1993, 33, 335 (biosynth)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th

Ed., Van Nostrand-Reinhold, 1992, GJM000, GJM025,

GJM030, GJM035.

Gouanogenin A

[147727-65-9]

 $C_{30}H_{46}O_4$ M 470.691Sapogenin from *Gouania lupuloides*. Cryst. Mp 195-200°.3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]:[149124-78-7]. **Gouanoside A** $C_{42}H_{66}O_{13}$ M 778.976Constit. of *G. lupuloides*. Amorph. solid.Kennelly, E.J. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 402 (*isol*, *pmr*, *cmr*)**G-10114****Graecunin D**

[74350-29-1]

Spirostanol saponin of unknown struct. Constit. of the leaves of *Trigonella foenum-graecum*. Amorph. powder. Mp 141-142°. [α]_D +49.0° (EtOH).Varshney, I.P. *et al*, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 44.**G-10119****Graecunin F**

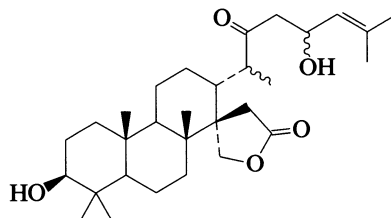
[89899-79-6]

Spirostanol saponin of unknown struct. Constit. of the leaves of *Trigonella foenum-graecum*. Amorph. powder.Varshney, I.P. *et al*, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 44 (*isol*)**G-10120****Graecunin H**

[71123-80-3]

Spirostanol saponin of unknown struct. Constit. of the seeds of *Trigonella foenum-graecum*. Amorph. powder. Mp 181-182°. [α]_D -72.0° (EtOH).Varshney, I.P. *et al*, *Indian J. Chem., Sect. B*, 1978, **16**, 1134 (*isol*)**G-10121****Gouanogenin B**

[147727-66-0]

 $C_{30}H_{48}O_5$ M 488.706Sapogenin from *Gouania lupuloides*. Glass.3-[O- α -L-Rhamnopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]:[149124-79-8]. **Gouanoside B** $C_{42}H_{68}O_{14}$ M 796.991Constit. of *G. lupuloides*. Amorph. solid.Kennelly, E.J. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 402 (*isol*, *pmr*, *cmr*)**G-10115****Graecunin I**

[71123-81-4]

Spirostanol saponin of unknown struct. Constit. of the seeds of *Trigonella foenum-graecum*. Amorph. powder. Mp 193-194°. [α]_D -84.0° (EtOH).Varshney, I.P. *et al*, *Indian J. Chem., Sect. B*, 1978, **16**, 1134 (*isol*)**G-10122****Graecunin J**

[71123-82-5]

Spirostanol saponin of unknown struct. Constit. of the seeds of *Trigonella foenum-graecum*. Amorph. powder. Mp 186-187°. [α]_D -25.2° (EtOH).Varshney, I.P. *et al*, *Indian J. Chem., Sect. B*, 1978, **16**, 1134 (*isol*)**G-10123****Graecunin K**

[71123-83-6]

Spirostanol saponin of unknown struct. Constit. of the seeds of *Trigonella foenum-graecum*. Amorph. powder. Mp 195-196°. [α]_D -44° (EtOH).Varshney, I.P. *et al*, *Indian J. Chem., Sect. B*, 1978, **16**, 1134 (*isol*)**G-10124****Graecunin A**

[67621-48-1]

Spirostanol saponin of unknown struct. Constit. of the leaves of *Trigonella foenum-graecum*. Amorph. powder.Varshney, I.P. *et al*, *J. Indian Chem. Soc.*, 1977, **54**, 1135 (*isol*)Varshney, I.P. *et al*, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 44 (*isol*)**G-10116****Graecunin B**

[67621-49-2]

Spirostanol saponin of unknown struct. Constit. of the leaves of *Trigonella foenum-graecum*. Amorph. powder. Mp 154-156°. [α]_D -46.0° (EtOH).Varshney, I.P. *et al*, *J. Indian Chem. Soc.*, 1977, **54**, 1135 (*isol*)Varshney, I.P. *et al*, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 44 (*isol*)**G-10117****Graecunin C**

[67621-50-5]

Spirostanol saponin of unknown struct. Constit. of the leaves of *Trigonella foenum-graecum*. Amorph. powder. Mp 147-149°. [α]_D +9.5° (EtOH).Varshney, I.P. *et al*, *J. Indian Chem. Soc.*, 1977, **54**, 1135 (*isol*)Varshney, I.P. *et al*, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 44 (*isol*)**G-10118****Graecunin N**

[71123-86-9]

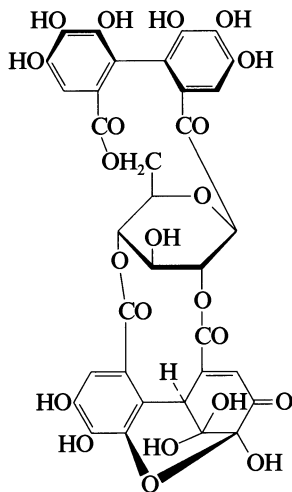
Spirostanol saponin of unknown struct. Constit. of the seeds of *Trigonella foenum-graecum*. Amorph. struct. Mp 238-239°. [α]_D -45.7° (EtOH).Varshney, I.P. *et al*, *Indian J. Chem., Sect. B*, 1978, **16**, 1134 (*isol*)**G-10127**

Granatin A

G-10128

Updated Entry replacing G-00700

1,6-(S)-Hexahydroxydiphenyl-2,4-(S)-dehydrohexahydroxydiphenyl-β-D-glucopyranose [73683-70-2]



$C_{34}H_{24}O_{22}$ M 784.550

Exists as an equilibrated mixt. of two isomers, the other being the alternative debenzofuranoid ketal. Major tannin constit. isol. from the leaves of *Punica granatum* and *Davidia involucrata*. Yellow amorph. powder + $1H_2O$. $[\alpha]_D^{20} +9.5^\circ$ (c, 0.5 in MeOH).

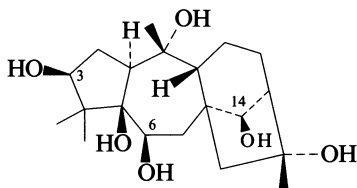
Haddock, E.A. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1982, 2535 (pmr, cmr)

Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1990, 38, 2424 (struct)

3,5,6,10,14,16-Grayanotoxanehexol

G-10129

Updated Entry replacing G-00739



$C_{20}H_{34}O_6$ M 370.485

(1α,3β,5β,6β,10α,14β,16α)-form [4678-45-9] **Grayanotoxin III**. *Andromedol*

Toxic constit. of *Leucothoe grayana*. Cryst. + $\frac{1}{2}EtOAc$. Mp 218° dec. $[\alpha]_D^{15} -12^\circ$.

▷ Toxic. PB9190000.

14-Ac: [4720-09-6]. **Grayanotoxin I**. *Andromedotoxin*

$C_{22}H_{36}O_7$ M 412.522

Toxic agent from *Rhododendron*, *Kalmia*, *Leucothoe* and *Lyonia* spp. Cryst. (EtOAc/pentane). Mp 267-270°. $[\alpha]_D^{25} -8.8^\circ$ (c, 2.3 in EtOH).

▷ PB9195000.

6,14-Di-Ac: [30460-34-5]. **Rhodojaponin IV**

$C_{24}H_{38}O_8$ M 454.559

Constit. of *R.* spp. Cryst. Mp 245-247°.

14-Propanoyl: [23984-17-0]. **Asebotoxin I**

$C_{23}H_{38}O_7$ M 426.549

Constit. of flowers of *Pieris japonica*. Cryst. Mp 196-198°.

▷ PB9201000.

14-(2S-Hydroxypropanoyl): [75796-14-4]. **Asebotoxin X**

$C_{23}H_{38}O_8$ M 442.548

Isol. from *P. japonica*.

3-Ketone: [30272-18-5]. 5β,6β,10α,14R,16α-Pentahydroxy-3-grayanotoxanone. **Grayanotoxin V**

$C_{20}H_{32}O_6$ M 368.469

Constit. of *L. grayana* leaves. Cryst. (EtOAc). Mp 230-232° dec. $[\alpha]_D -61.5^\circ$ (c, 1 in MeOH).

3-Ketone, 14-Ac: [39012-12-9]. **Grayanotoxin XIV**

$C_{22}H_{34}O_7$ M 410.506

Constit. of *L. grayana*. Cryst. Mp 242-243°. $[\alpha]_D -51^\circ$ (c, 1 in MeOH).

3,6-Diketone: [59740-27-1]. 5β,10α,14R,16α-Tetrahydroxy-3,6-grayanotoxanedione. **Grayanotoxin XVII**

$C_{20}H_{30}O_6$ M 366.453

Constit. of *L. grayana*. Cryst. (MeOH). Mp 268-270° dec. $[\alpha]_D -157.3^\circ$ (c, 1 in MeOH).

14-(2-Hydroxypropanoyl): [76036-12-9]. **Pieristoxin I**

$C_{23}H_{38}O_8$ M 442.548

Constit. of *P. japonica*. Amorph. powder. May be identical with Asebotoxin X above.

Tallent, W.H. *et al*, *J. Am. Chem. Soc.*, 1957, 79, 4548 (struct)

Kakisawa, H. *et al*, *Tetrahedron Lett.*, 1962, 215 (struct)

Hikino, H. *et al*, *Chem. Pharm. Bull.*, 1969, 17, 854; 1970, 18, 1071, 2357 (stereochem, isol)

Okuno, T. *et al*, *Tetrahedron*, 1970, 26, 4765 (isol)

Narayanan, P. *et al*, *Tetrahedron Lett.*, 1970, 3943 (cryst struct)

Hamanaka, N. *et al*, *Chem. Lett.*, 1972, 779 (isol)

Gasa, S. *et al*, *Bull. Chem. Soc. Jpn.*, 1976, 49, 835 (*Grayanotoxin XVII*)

Jawad, F.H. *et al*, *Biomed. Mass Spectrom.*, 1977, 4, 331 (ms)

Masutani, T. *et al*, *Agric. Biol. Chem.*, 1979, 43, 631 (cmr)

Katai, M. *et al*, *Chem. Pharm. Bull.*, 1980, 28, 3124 (*Pieristoxin I*)

Sakakibara, J. *et al*, *Yakugaku Zasshi*, 1980, 100, 540; *CA*, 94, 4132h (*Asebotoxin X*)

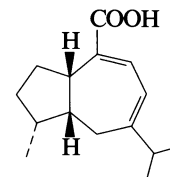
Burke, J.W. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, 53, 131 (isol, pmr, cmr)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, AOO375.

7,9-Guaiadien-14-oic acid

G-10130

Updated Entry replacing G-00798



$C_{15}H_{22}O_2$ M 234.338

Struct. revised in 1993. Formerly assigned as 1,3-guaiadien-15-oic acid.

(1β,4α,5β)-form [54928-04-0] **Jatamansic acid**

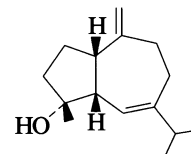
Constit. of *Nardostachys jatamansi*. Cryst. (EtOH). Mp 123°. $[\alpha]_D -394^\circ$ (CHCl₃).

Rücker, G. *et al*, *Phytochemistry*, 1993, 33, 141 (pmr, cmr, cryst struct)

6,10(14)-Guaiadien-4-ol

G-10131

Updated Entry replacing G-00805



$C_{15}H_{24}O$ M 220.354

(1β,4α,5α)-form [87827-55-2] *Alismol*

Constit. of *Alisma plantago-aquatica*. Oil. $[\alpha]_D^{20} + 8.7^\circ$ (c, 0.24 in CHCl_3). Struct. revised in 1992.

(1ξ,4α,5α)-form [72646-96-9]

Constit. of *Athanasia dregeana*. Oil. $[\alpha]_D^{24} - 27.5^\circ$ (c, 2 in CHCl_3).

(1α,4α,5β)-form

Constit. of *Nephtea chabrolii*. Oil. $[\alpha]_D 0^\circ$ (c, 0.1 in CHCl_3).

Ac:

$\text{C}_{17}\text{H}_{26}\text{O}_2$ M 262.391

Constit. of *Lemnaia africana*. Oil. $[\alpha]_D 0^\circ$ (c, 0.1 in CHCl_3).

Bohlmann, F. *et al*, *Phytochemistry*, 1979, **18**, 995.

Bowden, B.F. *et al*, *Aust. J. Chem.*, 1980, **33**, 1833 (*isol*, *pmr*, *cmr*)

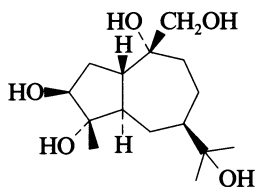
Oshima, Y. *et al*, *Phytochemistry*, 1983, **22**, 183.

Yoshikawa, M. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2582 (*cmr*, *struct*)

Jurek, Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 508 (*isol*, *pmr*, *cmr*)

3,4,10,11,14-Guaianepentol

G-10132



$\text{C}_{15}\text{H}_{28}\text{O}_5$ M 288.383

(1β,3β,4α,5α,10α)-form

11-O-β-D-Glucopyranoside: [126054-78-2]. *Atractyloside B*
Constit. of *Atractyloides lancea*. Powder. $[\alpha]_D^{27} - 7.8^\circ$ (c, 1 in MeOH).

2-Ketone, 11-O-β-D-glucopyranoside: [126054-77-1].

Atractyloside A

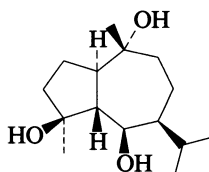
$\text{C}_{21}\text{H}_{36}\text{O}_{10}$ M 448.509

Constit. of *A. lancea*. Needles. Mp 227-230°. $[\alpha]_D^{27} + 20.0^\circ$ (c, 0.52 in MeOH aq.).

Yahara, S. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2995 (*isol*, *pmr*, *cmr*, *cryst struct*)

4,6,10-Guaianetriol

G-10133



$\text{C}_{15}\text{H}_{28}\text{O}_3$ M 256.384

(1α,4β,5β,6β,10α)-form***Teuclatriol***

Constit. of *Teucrium leuocladum*. Amorph. solid. Mp 50-60°. $[\alpha]_D^{24} + 16.9^\circ$ (c, 0.438 in CHCl_3).

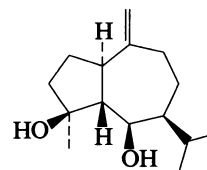
(1α,4β,5β,6β,10β)-form***10-Epiteuclatriol***

Constit. of *T. leuocladum*. Thick oil. $[\alpha]_D^{24} + 17.8^\circ$ (c, 0.29 in CHCl_3).

Bruno, M. *et al*, *Phytochemistry*, 1993, **34**, 245 (*isol*, *pmr*, *cmr*)

10(14)-Guaiene-4,6-diol

G-10134



$\text{C}_{15}\text{H}_{26}\text{O}_2$ M 238.369

(1α,4β,5β,6β)-form***Teucladiol***

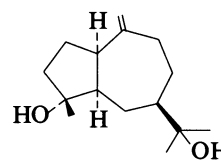
Constit. of *Teucrium leuocladum*. Thick oil. $[\alpha]_D^{24} + 2.9^\circ$ (c, 0.175 in CHCl_3).

Bruno, M. *et al*, *Phytochemistry*, 1993, **34**, 245 (*isol*, *pmr*, *cmr*)

10(14)-Guaiene-4,11-diol

G-10135

Updated Entry replacing G-00842



$\text{C}_{15}\text{H}_{26}\text{O}_2$ M 238.369

(1α,4α,5α)-form [65647-30-5] *Pleocarpenene*

Constit. of *Chenopodium botrys* and *Pleocarphus revolutus*. Cryst. (Et_2O). Mp 117°. $[\alpha]_D - 35^\circ$ (c, 1.2 in MeOH).

11-Ac: [74799-29-4].

$\text{C}_{17}\text{H}_{28}\text{O}_3$ M 280.406

Constit. of *C. botrys*. Oil. $[\alpha]_D + 20^\circ$ (c, 0.9 in CHCl_3).

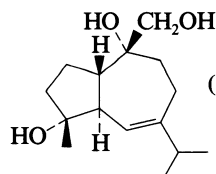
Gapalakrishna, E.M. *et al*, *Cryst. Struct. Commun.*, 1977, **6**, 655 (*cryst struct*)

de Pascual, T.-J. *et al*, *Tetrahedron*, 1980, **36**, 371.

Bohlmann, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1988, **51**, 509 (*isol*)

6-Guaiene-4,10,14-triol

G-10136



(1β,4α,5α,10α)-form

$\text{C}_{15}\text{H}_{26}\text{O}_3$ M 254.369

(1β,4α,5α,10α)-form [147368-35-2] *Orientalol B*

Constit. of *Alisma orientale*. Oil. $[\alpha]_D^{20} 0^\circ$ (c, 0.83 in MeOH).

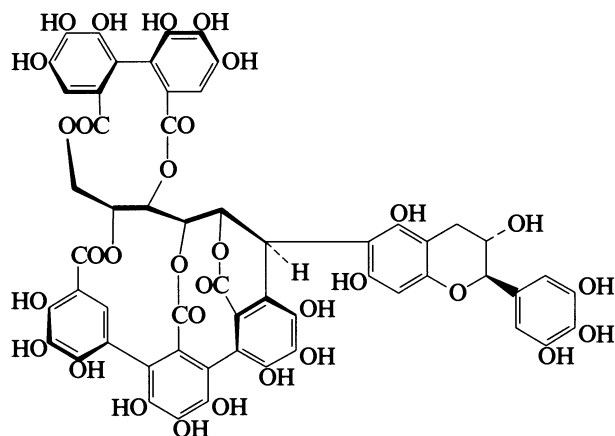
(1β,4α,5α,10β)-form [147368-34-1] *Orientalol A*

Constit. of *A. orientale*. Oil. $[\alpha]_D^{20} 0^\circ$ (c, 0.83 in MeOH).

Yoshikawa, M. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2582 (*isol*, *pmr*, *cmr*)

Guajavin B

[145826-23-9]

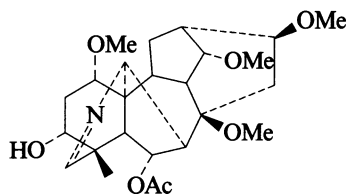
 $C_{56}H_{38}O_{32}$ M 1222.897

Isol. from the bark of *Psidium guajava*. Pale brown amorph. powder + 8H₂O. $[\alpha]_D^{21} + 27.5^\circ$ (c, 1.1 in MeOH).

Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2092 (*synth*, *pmr*, *cmr*)

Guenerine

[149998-33-4]

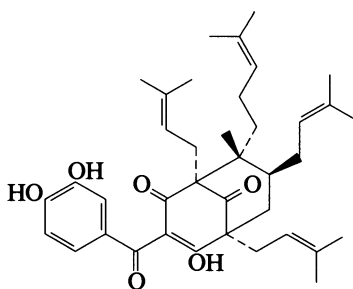
 $C_{25}H_{37}NO_7$ M 463.570

Alkaloid from aerial parts of *Delphinium gueneri* (Ranunculaceae). $[\alpha]_D^{22} - 23.3^\circ$ (c, 0.1 in MeOH).

Ulubelen, A. *et al*, *Phytochemistry*, 1993, **33**, 213 (*isol*, *ir*, *pmr*, *ms*, *struct*)

Guttiferone A

[147687-34-1]

 $C_{38}H_{50}O_6$ M 602.809

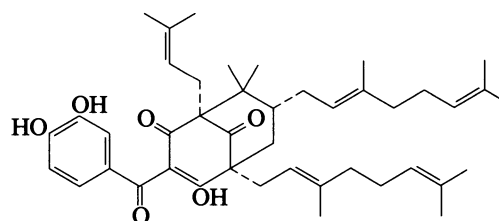
Constit. of *Symphonia globulifera* and *Garcinia livingstonei*. Shows HIV-inhibitory activity. Yellow oil. $[\alpha]_D + 34^\circ$ (c, 1.7 in CHCl₃).

Gustafson, K.R. *et al*, *Tetrahedron*, 1992, **48**, 10093 (*isol*, *pmr*, *cmr*)

G-10137

Guttiferone B

[147687-35-2]

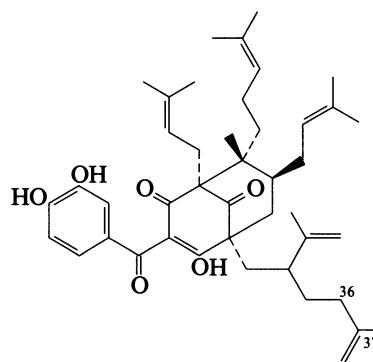
 $C_{43}H_{58}O_6$ M 670.928

Constit. of *Symphonia globulifera*. Shows HIV-inhibitory activity. Yellow oil. $[\alpha]_D - 44^\circ$ (c, 0.5 in CHCl₃).

Gustafson, K.R. *et al*, *Tetrahedron*, 1992, **48**, 10093 (*isol*, *pmr*, *cmr*)

Guttiferone C

[147687-36-3]

 $C_{43}H_{58}O_6$ M 670.928

Constit. of *Symphonia globulifera*. Shows HIV-inhibitory activity.

Δ^{36} -Isomer: [147687-37-4]. **Guttiferone D**

 $C_{43}H_{58}O_6$ M 670.928

Constit. of *S. globulifera*. Shows HIV-inhibitory activity.

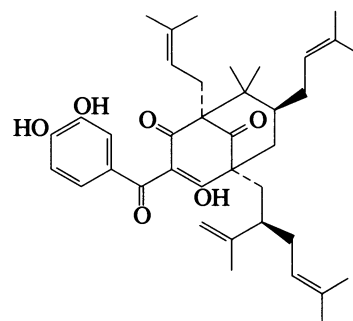
Gustafson, K.R. *et al*, *Tetrahedron*, 1992, **48**, 10093 (*isol*, *pmr*, *cmr*)

G-10138

G-10139

Guttiferone E

[147782-04-5]

 $C_{38}H_{50}O_6$ M 602.809

Constit. of *Garcinia livingstonei* and *Clusia ovalifolia*. Shows HIV-inhibitory activity. Yellow oil. $[\alpha]_D + 101^\circ$ (c, 0.5 in CHCl₃).

Gustafson, K.R. *et al*, *Tetrahedron*, 1992, **48**, 10093 (*isol*, *pmr*, *cmr*)

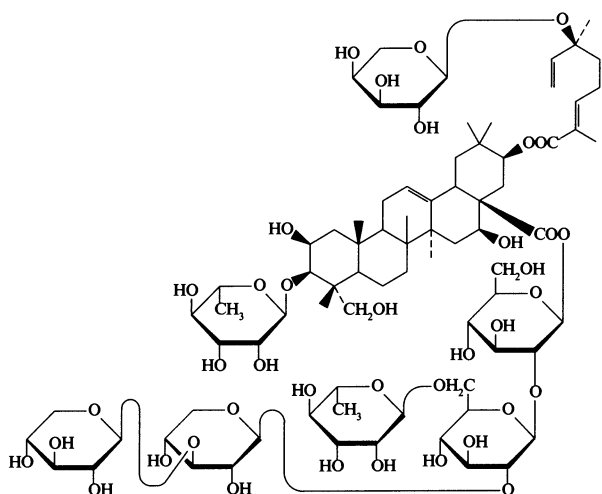
G-10140

G-10141

G-10142

Gymnocladussaponin D**G-10143**

[100830-55-5]

C₈₉H₁₄₂O₄₁ M 1868.076

Saponin from fruits of *Gymnocladus chinensis*. Hygroscopic powder + 6H₂O. Mp 196-200°. [α]_D²⁵ – 6.4° (c, 1.0 in MeOH). An additional acyl group was isolated but point of attachment is unclear.

Konoshima, T. *et al*, *Chem. Pharm. Bull.*, 1985, 33, 4732.**Gymnocladussaponin D₁****G-10144**

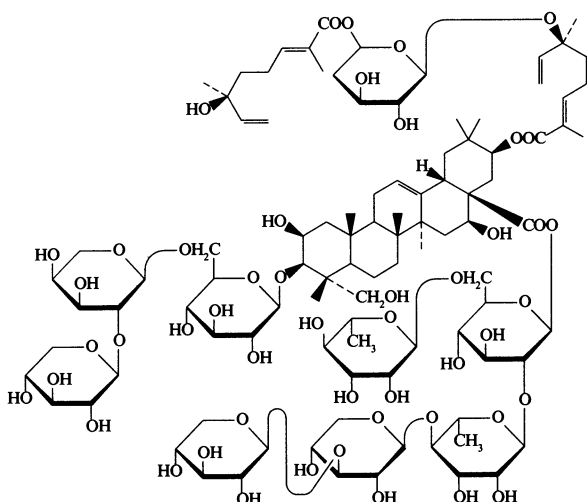
[110172-55-9]

C₉₄H₁₄₈O₄₁ M 1934.179

Struct. not yet fully detd. A complex glycoside closely related to the other gymnocladussaponins but having two 2,6-dimethyl-6-hydroxyoctadienoyl residues. Saponin from fruits of *Gymnocladus chinensis*. Powder + 8H₂O. [α]_D²³ + 28.0° (c, 1.1 in MeOH).

Konoshima, T. *et al*, *Chem. Pharm. Bull.*, 1987, 35, 1982.**Gymnocladussaponin F₁****G-10145**

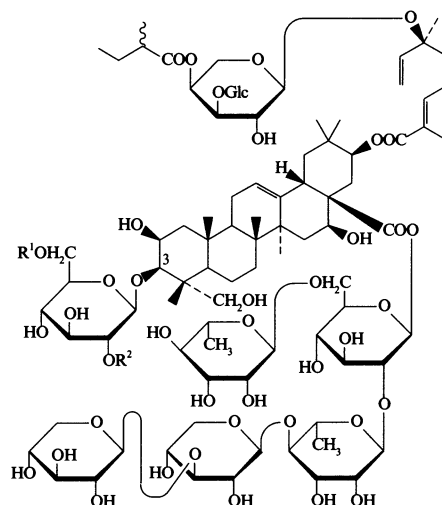
[110065-68-4]

C₉₉H₁₅₆O₄₉ M 2130.292

Saponin from fruits of *Gymnocladus chinensis*. Hygroscopic powder + 7H₂O. [α]_D²³ – 2.0° (c, 0.71 in MeOH).

Konoshima, T. *et al*, *Chem. Pharm. Bull.*, 1987, 35, 1982.**Gymnocladussaponin F₂****G-10146**

[110065-69-5]

R¹ = H, R² = GlcC₉₆H₁₅₄O₅₀ M 2108.243

Complex glycoside of 2,3,16,21,23-Pentahydroxy-12-oleanen-28-oic acid, P-00667. Saponin from fruits of *Gymnocladus chinensis*. Hygroscopic powder. [α]_D²³ – 3.6° (c, 0.77 in MeOH).

O³-Deglycosyl, O³-α-L-rhamnopyranosyl: [110065-67-3].**Gymnocladussaponin E**C₉₀H₁₄₄O₄₄ M 1930.101

Saponin from *G. chinensis*. Hygroscopic powder + 2H₂O. [α]_D²³ – 5.4° (c, 0.76 in MeOH).

Konoshima, T. *et al*, *Chem. Pharm. Bull.*, 1987, 35, 1982.**Gymnocladussaponin G****G-10147**

[108886-09-5]

As Gymnocladussaponin F₂, G-10146 withR¹ = β-D-Xyl(1→2)-α-L-Ara, R² = HC₁₀₀H₁₆₀O₅₃ M 2210.332

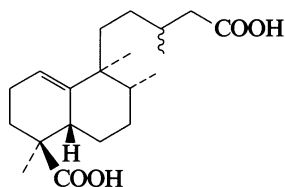
Saponin from fruits of *Gymnocladus chinensis*. Hygroscopic powder + 1H₂O. [α]_D²⁷ – 4.8° (c, 1.2 in MeOH).

Konoshima, T. *et al*, *Chem. Pharm. Bull.*, 1987, 35, 46.

H

1(10)-Halimene-15,19-dioic acid

H-10001



$C_{20}H_{32}O_4$ M 336.470

ent-form

Isol. (as di-Me ester) from seed-pod resin of *Hymenaea courbaril*.

[52591-97-6, 52591-98-7]

Khoo, S.F. *et al*, *Tetrahedron*, 1973, **29**, 3379 (isol)

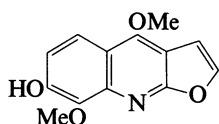
Haplopine

H-10002

Updated Entry replacing H-00099

4,8-Dimethoxyfuro[2,3-b]quinolin-7-ol, 9CI. 7-Hydroxy-4,8-dimethoxyfuro[2,3-b]quinoline

[5876-17-5]



$C_{13}H_{11}NO_4$ M 245.234

Alkaloid from *Haplophyllum robustum*, *Zanthoxylum (Fagara) cuspidatum*, *Monnieria trifolia* and *Melicope lasioneura* (Rutaceae). Mp 203-204°.

O- β -D-Glucopyranoside: [74201-15-3]. **Glycohaplopine**

$C_{19}H_{21}NO_9$ M 407.376

Alkaloid from the aerial parts of *H. perforatum* (Rutaceae). Mp 217-218°. $[\alpha]_D^{25}$ -41° (c, 0.516 in Py).

α -L-Mannopyranoside: [55740-45-9]. **Glycoferine**

$C_{19}H_{21}NO_9$ M 407.376

Alkaloid from *H. perforatum* (Rutaceae). Cryst. (MeOH). Mp 224-225°. $[\alpha]_D^{25}$ -66.3° (c, 2.32 in Py).

O- $[\beta$ -D-Glucopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranoside]: [115345-33-0]. **Haplosinine**

$C_{25}H_{31}NO_{13}$ M 553.519

Alkaloid from aerial parts of *H. perforatum* (Rutaceae). Mp 227-228°. $[\alpha]_D^{25}$ -74° (c, 2.83 in Py).

O-(3-Methyl-2-butenyl): [23417-92-7]. 7-Isopentenylxy- γ -fagarine. 4,8-Dimethoxy-7-[(3-methyl-2-butenyl)oxy]furo[2,3-b]quinoline, 9CI. 8-Methoxy-7-prenyloxydictamine

$C_{18}H_{19}NO_4$ M 313.352

Alkaloid from *Ptelea aptera*, *M. lasioneura* and *Choisya ternata* (biosynth.) (Rutaceae). Cryst. (MeOH). Mp 101-103°.

O-(4-Hydroxy-3-methyl-2-butenyl):

[58480-57-2]. **Haplatine**. Myrtifoline

$C_{18}H_{19}NO_5$ M 329.352

Alkaloid from *H. latifolium* (Rutaceae) and *H. myrtifolium*. Cryst. (C_6H_6). Mp 139-140°.

O-(3-Methyl-2-oxobutyl): see *Evoxidine*, E-02048

O-(2,3-Epoxy-3-methylbutyl): [24099-25-0]. 7-(2,3-Epoxy-3-methylbutoxy)-4,8-dimethoxyfuro[2,3-b]quinoline, 8CI

$C_{18}H_{19}NO_5$ M 329.352

Alkaloid from the branch ends of *E. xanthoxyloides* (Rutaceae). Cryst. (Et_2O /hexane). Mp 141-144°. $[\alpha]_D^{20}$ +13° ($CHCl_3$).

O-(2,3-Dihydroxy-3-methylbutyl): see *Evoxine*, E-02047

O-(2-Hydroxy-3-methyl-3-butenyl): [6989-38-4]. **Evodine**†

$C_{18}H_{19}NO_5$ M 329.352

Alkaloid from the leaves of *Evodia xanthoxyloides* (Rutaceae). Mp 153-154°. $[\alpha]_D^{20}$ -3° (c, 1.0 in $CHCl_3$). Abs. config. not detd.

O-(2-Acetoxy-3-methyl-3-butenyl): Plates (cyclohexane or EtOH aq.). Mp 126-127°.

Me ether: see 4,7,8-Trimethoxyfuro[2,3-b]quinoline, T-02758

Prager, R.H. *et al*, *Aust. J. Chem.*, 1962, **15**, 301 (*Evodine*)

Sidyakin, G.P. *et al*, *Dokl. Akad. Nauk SSSR*, 1962, **19**, 39; *CA*, **57**, 15170 (isol, struct, uv, ir)

Dreyer, D.L., *Phytochemistry*, 1969, **8**, 1013 (isol, uv, pmr, struct, deriv)

Dreyer, D.L., *J. Org. Chem.*, 1970, **35**, 2420 (isol, uv, pmr, struct, deriv)

Grundon, M.F. *et al*, *J. Chem. Soc., Perkin Trans. I*, 1974, 2181 (biosynth, uv, deriv)

Akhmedzhanova, V.I. *et al*, *Khim. Prir. Soedin.*, 1974, **10**, 680;

Chem. Nat. Compd. (Engl. Transl.), 706 (*Glycoferine*)

Nesmelova, E.F. *et al*, *Khim. Prir. Soedin.*, 1975, **11**, 666; *Chem. Nat. Compd. (Engl. Transl.)*, 706 (*Haplatine*)

Abdullaeva, K.A. *et al*, *Khim. Prir. Soedin.*, 1979, **18**, 873; *Chem. Nat. Compd. (Engl. Transl.)*, 782 (*Glycohaplopine*)

Moulis, C. *et al*, *Planta Med.*, 1981, **42**, 400 (isol, uv, pmr, ms)

Tillequin, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1982, **45**, 486 (isol)

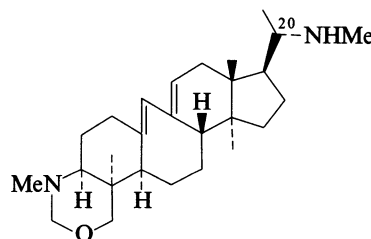
Rasulova, Kh.A. *et al*, *Khim. Prir. Soedin.*, 1987, **23**, 876; *Chem. Nat. Compd. (Engl. Transl.)*, 731 (*Haplosinine*)

Harappamine

H-10003

Updated Entry replacing H-00100

[84679-85-6]



$C_{27}H_{44}N_2O$ M 412.657

Alkaloid from the leaves of *Buxus papilosa* (Buxaceae). Gum.

N²⁰-Formyl: **N-Formylharappamine**

$C_{28}H_{44}N_2O_2$ M 440.668

Alkaloid from the leaves of *B. papilosa* (Buxaceae). Amorph. $[\alpha]_D^{20}$ +40° (c, 0.50 in $CHCl_3$).

N²⁰-Formyl, N-de-Me: **Papillamide**. N-Formyl-N-demethylharappamine

$C_{27}H_{42}N_2O_2$ M 426.641

Alkaloid from the leaves of *B. papilosa* (Buxaceae). Amorph. $[\alpha]_D^{20}$ 0° ($CHCl_3$).

N²⁰-De-Me: **N⁶-Demethylharappamine**

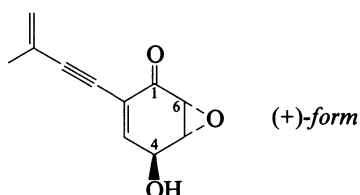
$C_{26}H_{42}N_2O$ M 398.631

Alkaloid from roots of *B. papilosa* (Buxaceae). Amorph. solid. $[\alpha]_D^{20}$ +12.4° ($CHCl_3$).

- Atta-ur-Rahman, *et al*, *Z. Naturforsch., B*, 1984, **39**, 524 (*isol, uv, ir, pmr, cmr, ms, struct*)
 Atta-ur-Rahman, *et al*, *Heterocycles*, 1988, **27**, 89 (*Papillamidine*)
 Choudhary, M.I. *et al*, *Phytochemistry*, 1988, **27**, 1561 (*N-Formylharappamine*)
 Atta-ur-Rahman, *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1063 (*N^o-Demethylharappamine*)

Harveynone**H-10004**

5-Hydroxy-3-(3-methyl-3-buten-1-ynyl)-7-oxabicyclo[4.1.0]hept-3-en-2-one, 9Cl. 5,6-Epoxy-4-hydroxy-2-(3-methyl-3-buten-1-ynyl)-2-cyclohexen-1-one

C₁₁H₁₀O₃ M 190.198

The name Harveynone originally applied to the (–)-form.

(+)-form

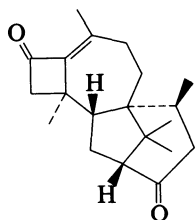
Metab. of *Pestalotiopsis theae*. Phytotoxin. Light yellow oil. $[\alpha]_D^{25} +147^\circ$ (c, 0.82 in MeOH).

(–)-form [125555-67-1]

Isol. from *Curvularia harveyi*. Inhibitor of spindle formation in sea urchin eggs.

Kobayashi, A. *et al*, *CA*, 1990, **112**, 115410.Nagata, T. *et al*, *Biosci., Biotechnol., Biochem.*, 1992, **56**, 810 (*isol, cmr, pmr, bibl*)**Harziandione****H-10005**

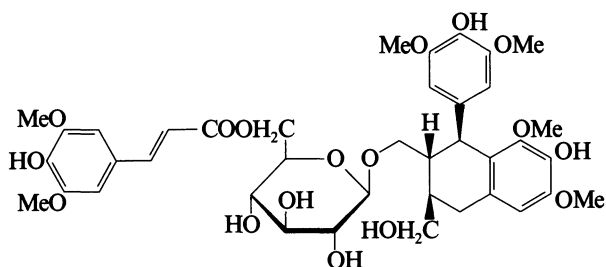
[145525-30-0]

C₂₀H₂₈O₂ M 300.440

Metab. of *Trichoderma harzianum*. Cryst. (diisopropyl ether). Mp 74-75°. $[\alpha]_D +116.5^\circ$ (c, 0.9 in CHCl₃).

Ghisalberti, E.L. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1690 (*isol, pmr, cmr, cryst struct*)**Hazaleanin B****H-10006**

[147742-23-2]

C₃₉H₄₈O₁₇ M 788.798

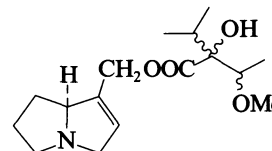
Constit. of the bark of *Fagara rhetza*. Amorph. solid. $[\alpha]_D^{26} +7.5^\circ$ (c, 1.1 in MeOH).

Shibuya, H. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2639 (*isol, pmr, cmr, struct*)**Heleurine****H-10007**

Updated Entry replacing H-00152

Alkaloid C

[488-00-6]

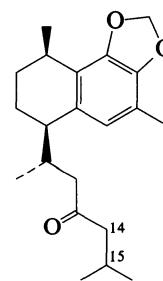
C₁₆H₂₇NO₄ M 297.394

Ester of (–)-Supinidine with Heliotric acid. Alkaloid from *Heliotropium indicum* and *H. europaeum* (Boraginaceae). Large transparent prisms. Sol. H₂O. Mp 67-68°. $[\alpha]_D^{16} -12.0^\circ$ (c, 5.15 in EtOH). Discolours rapidly unless v. pure.

▷ EK7879200.

N-Oxide: [132886-10-3]. **Heleurine N-oxide**C₁₆H₂₇NO₅ M 313.393

Alkaloid from aerial parts of *H. hirsutissimum* (Boraginaceae). Gummy solid. $[\alpha]_D^{20} +19.5^\circ$ (c, 0.55 in CHCl₃).

Culvenor, C.C.J., *Aust. J. Chem.*, 1954, **7**, 287 (*isol*)Hoque, M. *et al*, *CA*, 1977, **86**, 40191v (*isol*)Mackay, M.F. *et al*, *Acta Crystallogr., Sect. C*, 1985, **41**, 722 (*cryst struct*)Constantinidis, T. *et al*, *Phytochemistry*, 1993, **32**, 1335 (*oxide*)**Helioporin B****H-10008**C₂₁H₃₀O₃ M 330.466

Constit. of *Heliopora coerulea*. Oil. $[\alpha]_D^{24} +18.8^\circ$ (c, 2.55 in CHCl₃).

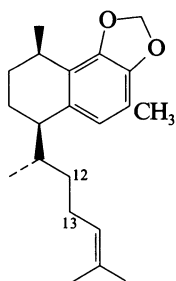
14,15-Didehydro: **Helioporin C**C₂₁H₂₈O₃ M 328.450

Constit. of *H. coerulea*. Oil. $[\alpha]_D^{22} +8.3^\circ$ (c, 0.58 in CHCl₃).

Tanaka, J. *et al*, *Tetrahedron*, 1993, **49**, 811 (*isol, pmr, cmr*)

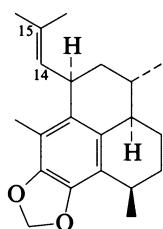
Helioporin D

[138264-51-4]

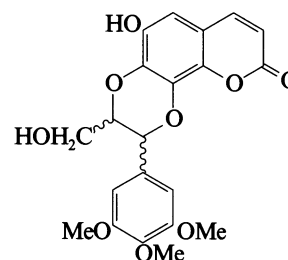
 $C_{21}H_{30}O_2$ M 314.467Constit. of *Heliopora coerulea*. Oil. $[\alpha]_D^{23} + 6.3^\circ$ (c, 0.36 in $CHCl_3$).12,13-Didehydro (E-): [138264-54-7]. **Helioporin G** $C_{21}H_{28}O_2$ M 312.451Constit. of *H. coerulea*. Oil. $[\alpha]_D^{23} - 50^\circ$ (c, 0.69 in $CHCl_3$).12,13-Didehydro (Z-): [138264-53-6]. **Helioporin F** $C_{21}H_{28}O_2$ M 312.451Constit. of *H. coerulea*. Oil. $[\alpha]_D^{23} - 17^\circ$ (c, 0.23 in $CHCl_3$).Tanaka, J. et al, *Tetrahedron*, 1993, **49**, 811 (isol, pmr, cmr)**H-10009**Picrate: Cryst. + H_2O . Mp 102-106° (97-100°).Dehydrates to a gum on drying *in vacuo*.3'-Ac: [31514-30-4]. **Acetylheliosupine** $C_{22}H_{33}NO_8$ M 439.505Minor alkaloid from *C. officinale* and from *Myosotis sylvatica* (Boraginaceae). $[\alpha]_D^{24.5} - 1.8^\circ$ (c, 0.567 in EtOH). Acetylated at the secondary OH group.

Originally considered to be the 2'-Ac deriv.

3'-Ac, N-oxide: 3'-Acetylheliosupine N-oxide

 $C_{22}H_{33}NO_9$ M 455.504Alkaloid from aerial parts of *H. hirsutissimum* (Boraginaceae). Oil. $[\alpha]_D^{20} + 14.9^\circ$ (c, 0.35 in $CHCl_3$).Denisova, S.I. et al, *Dokl. Akad. Nauk SSSR, Ser. Khim.*, 1953, **93**, 59; *CA*, **49**, 3992h (isol)Culvenor, C.C.J., *Aust. J. Chem.*, 1956, **9**, 512 (struct)Crout, D.H.G., *J. Chem. Soc. C*, 1966, 1968; 1967, 1233 (biosynth)Pedersen, E., *Dan. Tidsskr. Farm.*, 1970, **44**, 287; *CA*, **74**, 72780e (isol, deriv)Pedersen, G. et al, *Org. Mass Spectrom.*, 1970, **4**, 249 (ms)Man'ko, I. et al, *Khim. Prir. Soedin.*, 1971, **7**, 537; *Chem. Nat.**Compd. (Engl. Transl.)*, 523 (isol)Zalkow, L.H. et al, *J. Nat. Prod. (Lloydia)*, 1979, **42**, 612 (isol)Smith, L.W. et al, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 129 (occur, deriv)Jones, A.J. et al, *Aust. J. Chem.*, 1982, **35**, 1173 (cmr)Resch, J.F. et al, *Phytochemistry*, 1982, **21**, 2430 (uv, pmr, cmr, ms, struct, deriv)Constantinidis, T. et al, *Phytochemistry*, 1993, **32**, 1335 (3'-Acetylheliosupine-N-oxide)**Helioporin E****H-10010** $C_{21}H_{28}O_2$ M 312.451Constit. of *Heliopora coerulea*. Oil. $[\alpha]_D^{23} + 111^\circ$ (c, 0.55 in $CHCl_3$).14 α ,15-Epoxyde: **Helioporin A** $C_{21}H_{28}O_3$ M 328.450Constit. of *H. coerulea*. Oil. $[\alpha]_D^{24} + 65^\circ$ (c, 4.4 in $CHCl_3$).Tanaka, J. et al, *Tetrahedron*, 1993, **49**, 811 (isol, pmr, cmr)**Hemidesmin 1****H-10012**

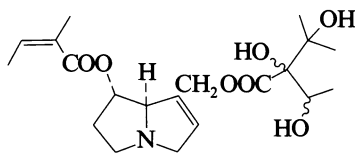
[143050-11-7]

 $C_{21}H_{20}O_9$ M 416.384Isol. from the roots of *Hemidesmus indicus*. Cryst. (EtOAc/MeOH). Mp 232-234°. Racemic.Das, P.C. et al, *Indian J. Chem., Sect. B*, 1992, **31**, 342 (isol, pmr)**Heliosupine****H-10011**

Updated Entry replacing H-00173

Cynoglossophine

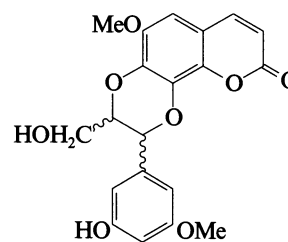
[32728-78-2]

 $C_{20}H_{31}NO_7$ M 397.467Ester of heliotridine with angelic (see 2-Methyl-2-butenoic acid, M-00844) and echimidinic acids (see 2,3-Dihydroxy-2-(1-hydroxyethyl)-3-methylbutanoic acid, D-02050). Alkaloid from *Heliotropium supinum* and *Cynoglossum* spp. (Boraginaceae). Shows antitumour activity. Gum. $[\alpha]_D - 4.3^\circ$ (c, 5.1 in EtOH).

▷ MH6000000.

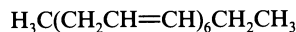
Hemidesmin 2**H-10013**

[143050-12-8]

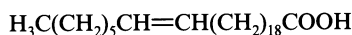
 $C_{20}H_{18}O_8$ M 386.357Isol. from the roots of *Hemidesmus indicus*. Amorph. Mp 245-250°. Racemic.Das, P.C. et al, *Indian J. Chem., Sect. B*, 1992, **31**, 342 (isol, pmr)

3,6,9,12,15,18-Heneicosahexaene

[127702-72-1]

C₂₁H₃₂ M 284.484*All-(Z)-form* [29118-86-3]Isol. from marine algae and plankton. *Ir* ν 3020, 715 (C=C) cm⁻¹.

[32779-95-6]

Lee, R.F. *et al*, *Biochim. Biophys. Acta*, 1970, **202**, 386 (*isol, struct, ms*)Blumer, M. *et al*, *Mar. Biol. (Berlin)*, 1970, **6**, 226 (*isol, struct, uv, ir, ms*)Wright, J.L.C., *Phytochemistry*, 1980, **19**, 143 (*cmr*)**20-Heptacosenoic acid****H-10015**C₂₇H₅₂O₂ M 408.707*(Z)-form* [140197-98-4]Constit. of the sponge *Amphimedon compressa*.Carballeira, N.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 333.**6,9-Heptadecadiene, 9CI****H-10016**

[81265-03-4]

C₁₇H₃₂ M 236.440

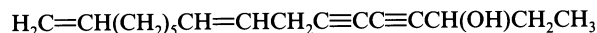
Found in Australian formicine ants.

(6Z,9Z)-form [133410-67-0]Constit. of *Dermatophagoides* sp.

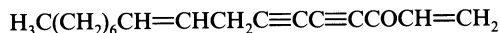
[132833-56-8, 132833-58-0]

Brophy, J.J. *et al*, *Insect Biochem.*, 1982, **12**, 215 (*isol*)Hutzinger, M.W. *et al*, *J. Org. Chem.*, 1991, **56**, 2918 (*synth, isomers, pmr, cmr, ms*)**9,16-Heptadecadiene-4,6-diyn-3-ol, 8CI****H-10017**

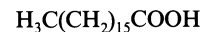
Updated Entry replacing H-00258

C₁₇H₂₄O M 244.376*(Z)-form* [24587-16-4]Constit. of *Coreopsis gigantea* and aerial parts of *Diotis maritima*. Oil.9,10-Epoxyde, Ac: [142465-54-1]. *Ginsenoine H*C₁₉H₂₆O₃ M 302.413Isol. from the roots of *Panax ginseng*. Oil. [α]_D – 208.9° (c, 2.27 in CHCl₃).Bohlmann, F. *et al*, *Chem. Ber.*, 1969, **102**, 1691.de Pascual, T.J., *An. Quim.*, 1977, **73**, 1525; *CA*, **89**, 176303c.Hirakura, K. *et al*, *Phytochemistry*, 1991, **30**, 4053 (*Ginsenoine H*)**1,9-Heptadecadiene-4,6-diyn-3-one****H-10018**

Updated Entry replacing H-00260

C₁₇H₂₂O M 242.360*(Z)-form* [4117-11-7] *Falcarinone*Isol. from *Falcaria vulgaris*, *Oenanthe* spp. *Sium sisarum*, *Chaerophyllum temulum*, *Eryngium planum*, *Galinsoga paviflora*, *Hedera helix* etc. Pale-yellow oil.9,10-Epoxyde: see *Panaxydol*, P-00102Bohlmann, F. *et al*, *Chem. Ber.*, 1961, **94**, 958; 1962, **95**, 1320; 1965, **98**, 3010.**Heptadecanoic acid****H-10019***Margaric acid. Daturinic acid*

[506-12-7]

C₁₇H₃₄O₂ M 270.454Constit. of *Erythrina crista-galli* trunkwood and bark.

Common constit. of lipids. Used (with octadecanoic acid) for amino acid sequencing in peptides. Cryst. (pet. ether). Mp 62-63°.

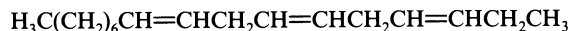
▷ LD₅₀ (mus, ivn) 36 mg/kg. MI3850000.*Me ester*: [1731-92-6].C₁₈H₃₆O₂ M 284.481Cryst. (EtOH). Mp 30°. Bp₉, 184-187°.*Et ester*: [14010-23-2].C₁₉H₃₈O₂ M 298.508Cryst. (EtOH aq.). Mp 28°. Bp₅, 185°.*Amide*: [25844-13-7].C₁₇H₃₅NO M 269.470

Cryst. (EtOH). Mp 108°.

Nitrile: [5399-02-0].C₁₇H₃₃N M 251.454Cryst. (EtOH). Mp 34°. Bp₁₀, 185°.Bricas, E. *et al*, *Biochemistry*, 1965, **4**, 2254 (*use*)Buchtla, E. *et al*, *Justus Liebigs Ann. Chem.*, 1966, **698**, 93 (*synth*)Imamura, H. *et al*, *Gigu Daigaku Nogakubu Kenkyu Hokoku*, 1981, **77**; *CA*, **96**, 196524y (*occur*)Bengsch, E. *et al*, *J. Magn. Reson.*, 1986, **68**, 1 (*cmr*)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, HAS500.**3,6,9-Heptadecatriene, 9CI****H-10020**

Updated Entry replacing H-00295

[81265-04-5]

C₁₇H₃₀ M 234.424*(All-Z)-form* [109877-47-6]Found in *Semiothisa* sp. and female *Tephрина arenacearria*. Sex pheromone.

3R*,4S*-Epoxyde: [109877-48-7]. 3,4-Epoxy-6,9-

heptadecadiene. 2-Ethyl-3-(2,5-tridecadienyl)oxirane, 9CI

Constit. of the sex pheromones of *S. spp.* and *T. arenacearia*.

6R*,7S*-Epoxyde: [109877-49-8]. 6,7-Epoxy-3,9-

heptadecadiene. 2-(2-Decenyl)-3-(2-pentenyl)oxirane, 9CI

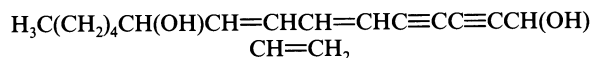
C₁₇H₃₀O M 250.423Constit. of the sex pheromones of *S. spp.* and *T. arenacearia*.

9R*,10S*-Epoxyde: [109877-51-2]. 9,10-Epoxy-6,9-

heptadecadiene. 2-Heptyl-3-(2,5-octadienyl)oxirane, 9CI

Constit. of sex pheromone of *T. arenacearia*.

[129938-28-9, 130193-58-7, 130194-36-4]

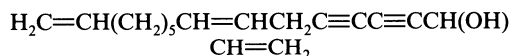
Millar, J.G. *et al*, *J. Chem. Ecol.*, 1987, **13**, 1371; 1990, **16**, 2317*(isol, synth, ms, pmr, ir)*Sabharwal, a. *et al*, *J. Indian Chem. Soc.*, 1990, **67**, 173 (*synth*)Toth, M. *et al*, *Z. Naturforsch., C*, 1991, **46**, 257 (*isol, synth*)**1,8,10-Heptadecatriene-4,6-diyne-3,12-diol****H-10021**C₁₇H₂₂O₂ M 258.360*(all-E)-form* [143966-10-3]Constit. of *Panax ginseng*.Lutowski, J. *et al*, *Herba Pol.*, 1991, **37**, 113 (*isol*)

1,9,16-Heptadecatriene-4,6-diyne-3-ol

H-10022

Updated Entry replacing H-00310

[88153-63-3]

C₁₇H₂₂O M 242.360(–)-(Z)-form [36150-08-0] **Dehydrofalcarinol**Isol. from roots of *Artemisia atrata*, *A. borealis* and *Nidorella* sp. Pale-yellow oil. [α]_D²³ – 5.0° (c, 13.9 in Et₂O).

Ac: [78516-98-0].

C₁₉H₂₄O₂ M 284.397Isol. from *Viguiera* sp. Oil.9,10-Epoxyde: [139163-34-1]. 9,10-Epoxy-1,16-heptadecadiene-4,6-diyne-3-ol. **Ginsenyne A**C₁₇H₂₂O₂ M 258.360Isol. from the root of *Panax ginseng*. Oil. [α]_D – 121.9° (c, 1.0 in CHCl₃). λ_{max} 201, 230, 243, 256 nm (EtOH).9,10-Epoxyde, Ac: [142449-71-6]. **Ginsenyne F**C₁₉H₂₄O₃ M 300.397Isol. from the roots of *P. ginseng*. Oil. [α]_D – 54.2° (c, 2.35 in CHCl₃).

[13894-97-8]

Bohlmann, F. *et al*, *Chem. Ber.*, 1966, **99**, 3552 (*isol, ir, pmr, struct*)Bohlmann, F. *et al*, *Phytochemistry*, 1981, **20**, 113 (*isol*)Harada, R. *et al*, *Phytochemistry*, 1982, **21**, 2009 (*isol*)Wang, Y. *et al*, *Phytochemistry*, 1990, **29**, 3101 (*isol, struct, bibl, pmr, cmr*)Hirakura, K. *et al*, *Phytochemistry*, 1991, **30**, 3327, 4053 (*isol, ir, uv, ms, pmr, cmr*)**8-Heptadecene-4,6-diyne-3,10-diol**

H-10023

C₁₇H₂₆O₂ M 262.391

(E)-form

10-Ac: [143966-09-0]. 10-Acetoxy-8-heptadecene-4,6-diyne-3-ol

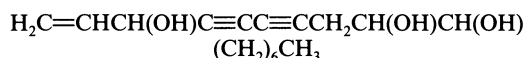
C₁₉H₂₈O₃ M 304.428Constit. of *Panax ginseng*.Lutomski, J. *et al*, *Herba Pol.*, 1991, **37**, 113 (*isol*)**1-Heptadecene-4,6-diyne-3,9,10-triol, 9CI**

H-10024

Updated Entry replacing H-00331

Panaxytriol. Falcarintriol

[87005-03-6]

C₁₇H₂₆O₃ M 278.391Isol. from *Panax ginseng*. Also from *P. quinquefolium*.Shows antitumour activity. Needles (H₂O).

10-Ac: [122855-48-5]. 10-Acetylpanaxytriol

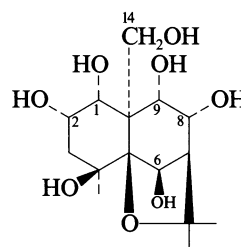
C₁₉H₂₈O₄ M 320.428Constit. of the roots of *P. ginseng*. Cytotoxic.

10-Me ether: [133921-57-0]. 10-Methoxy-1-heptadecene-4,6-diyne-3,9-diol, 9CI. PQ 1

C₁₈H₂₈O₃ M 292.417Isol. from *P. quinquefolium*. Shows some antileukaemic props. Oil. [α]_D – 21.7° (c, 0.58 in MeOH).Matsunaga, H. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 1279 (*isol, uv, pmr, cmr, synth*)Kim, S.I. *et al*, *Yakhak Hoechi*, 1989, **33**, 118; *CA*, **111**, 146363 (10-Acetyl panaxytriol)Fujimoto, Y. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 521 (*isol, ms, cmr, struct*)**1,2,4,6,8,9,14-Heptahydroxydihydro-β-agarofuran**

H-10025

Updated Entry replacing H-00379



(1α,2α,4β,6β,8α,9α)-form

C₁₅H₂₆O₈ M 334.366

(1α,2α,4β,6β,8α,9α)-form

9-Benzoyl, 1,2,6,8,14-penta-Ac: [116159-73-0]. **Celangulin**C₃₂H₄₀O₁₄ M 648.660Constit. of *Celastrus angulatus*. Insect antifeedant.

Amorph. powder.

1,9-Dibenzoyl, 2,6,8,14-tetra-Ac: **2α,6β,8α,14-Tetraacetoxy-1α,9α-dibenzoyloxy-4β-hydroxydihydro-β-agarofuran**C₃₇H₄₂O₁₄ M 710.730Constit. of *Maytenus canariensis*. Amorph. solid. Mp 50-52°.

9-Benzoyl, 14-(2-methylbutanoyl), 1,2,6,8-tetra-Ac:

Celangulin IVC₃₅H₄₆O₁₄ M 690.740Constit. of *C. angulatus*. Amorph. powder. [α]_D¹⁸ + 7.6° (c, 0.893 in CHCl₃).

8-Ketone, 1,9-dibenzoyl, 2,6,14-tri-Ac: [111950-43-7].

Triptofordin EC₃₅H₃₈O₁₃ M 666.677Isol. from *Tripterygium wilfordii*. Granules (MeOH). Mp 116-118°. [α]_D²⁷ + 47.4° (c, 0.25 in MeOH).8-(3-Pyridinecarbonyl), 9-benzoyl, 2-(2-methylpropanoyl), 1,14-di-Ac: **1,14-Diacetoxy-9-benzoyloxy-4,6-dihydroxy-2-isobutanoyloxy-8-nicotinoyloxydihydro-β-agarofuran**C₃₆H₄₃NO₁₃ M 697.735Alkaloid from *C. angulatus* (Celastraceae). Insect antifeedant. Amorph. [α]_D²⁰ + 43.4° (c, 0.52 in MeOH).

8-Ketone, 9-benzoyl, 1,2,6,14-tetra-Ac:

C₃₀H₃₆O₁₃ M 604.607Constit. of *M. canariensis*. Amorph. solid (CHCl₃). Mp 117-118°. [α]_D²⁵ – 6.8° (c, 0.63 in CHCl₃).

8-Ketone, 1,9-dibenzoyl, 2,6,14-tri-Ac:

C₃₅H₃₈O₁₃ M 666.677Constit. of *M. canariensis*. Oil. [α]_D²⁵ + 11.6° (c, 0.68 in CHCl₃).

1,8,9-Tribenzoyl, 2,6,14-tri-Ac:

C₄₂H₄₄O₁₄ M 772.801Constit. of *M. canariensis*. Oil. [α]_D²⁵ + 49.0° (c, 0.68 in CHCl₃).

(1α,2α,4β,6β,8α,9β)-form

2,8,9-Tribenzoyl, 1,6,14-tri-Ac: [111950-73-3]. **8α-Benzoyloxyacetylpringleine**C₄₂H₄₄O₁₄ M 772.801Isol. from *C. pringlei*. Amorph. powder. Mp 98°.

2-(3-Furoyl), 8,14-bis(2-methylpropanoyl), 9-(3-pyridinecarbonyl), 1,6-di-Ac:

C₃₈H₄₇NO₁₅ M 757.787Constit. of *C. angulatus*. Amorph. [α]_D²⁰ + 45.8° (c, 0.52 in MeOH).

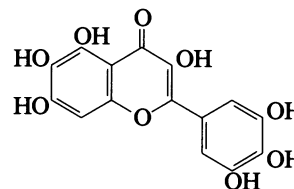
- 9-(3-Furoyl), 2,14-bis(2-methylpropanoyl), 1,6,8-tri-Ac:
 $C_{34}H_{46}O_{15}$ M 694.728
 Constit. of *C. gemmatus*. Amorph. powder. $[\alpha]_D^{25} - 22^\circ$
 (c, 0.5 in $CHCl_3$).
- 8,9-Bis-(3-furancarboxyl), 14-(2-methylbutanoyl), 1,2,6-tri-Ac: **Celangulin II**
 $C_{36}H_{44}O_{16}$ M 732.734
 Constit. of *C. angulatus*. Amorph. powder. $[\alpha]_D^{18} - 28.2^\circ$
 (c, 0.865 in $CHCl_3$).
- 9-Benzoyl, 14-(2-methylbutanoyl), 1,2,6,8-tetra-Ac: **Celangulin III**
 $C_{35}H_{46}O_{14}$ M 690.740
 Constit. of *C. angulatus*. Amorph. powder. $[\alpha]_D^{18} - 2.8^\circ$
 (c, 0.750 in $CHCl_3$).
- 2,6,8-Tri-(3-pyridinecarbonyl),9-benzoyl, 1,14-di-Ac: **Cangorin A**
 $C_{44}H_{43}N_3O_{14}$ M 837.835
 Constit. of *Maytenus ilicifolia*. Amorph. solid. Mp 136-140°. $[\alpha]_D + 45.7^\circ$ (c, 0.37 in $CHCl_3$).
- 1,2,8-Tri-(3-pyridinecarbonyl), 6,9-dibenzyl, 14-Ac: **Cangorin B**
 $C_{49}H_{45}N_3O_{14}$ M 899.906
 Constit. of *M. ilicifolia*. Amorph. solid. Mp 137-141°. $[\alpha]_D + 77.3^\circ$ (c, 0.33 in $CHCl_3$).
- 2,8-Di(3-pyridinecarbonyl),6,9-dibenzoyl,1,14-di-Ac: **Cangorin C**
 $C_{45}H_{44}N_2O_{14}$ M 836.848
 Constit. of *M. ilicifolia*. Amorph. solid. Mp 122-126°. $[\alpha]_D - 45.0^\circ$ (c, 0.36 in $CHCl_3$).
- 2,8-Di-(3-pyridinecarbonyl),9-benzoyl,1,6,14-tri-Ac: **Cangorin D**
 $C_{40}H_{42}N_2O_{14}$ M 774.777
 Constit. of *M. ilicifolia*. Amorph. solid. Mp 123-138°. $[\alpha]_D + 11.2^\circ$ (c, 0.2 in $CHCl_3$).
- 1,2-Di-(3-pyridinecarbonyl), 8,9-dibenzoyl, 6,14-di-Ac: **Cangorin E**
 $C_{45}H_{44}N_2O_{14}$ M 836.848
 Constit. of *M. ilicifolia*. Amorph. solid. Mp 103-108°. $[\alpha]_D + 26.3^\circ$ (c, 0.19 in $CHCl_3$).
- (1 α ,2 α ,4 β ,6 β ,8 β ,9 α)-form
 2-(2-Methylpropanoyl), 8-(3-pyridinecarbonyl), 9-benzoyl, 1,14-di-Ac:
 $C_{36}H_{43}NO_{13}$ M 697.735
 Constit. of *C. angulatus*. Amorph. $[\alpha]_D^{20} + 43.4^\circ$ (c, 0.52 in MeOH).
- 9-Benzoyl, 8,14-bis(methylpropanoyl), 1,2-di-Ac: **Angulatin A**
 $C_{34}H_{46}O_{13}$ M 662.730
 Constit. of *C. angulatus*. Cryst. (MeOH aq.). Mp 199-200°. $[\alpha]_D^{15} - 8.13^\circ$ (c, 0.369 in $CHCl_3$).
- 9-Benzoyl, 2,14-bis-(2-methylpropanoyl), 1,8-di-Ac:
 $C_{34}H_{46}O_{13}$ M 662.730
 Constit. of *C. gemmatus*. Amorph. powder. $[\alpha]_D^{25} - 12.5^\circ$
 (c, 0.48 in $CHCl_3$).
- Takaishi, Y. *et al*, *Phytochemistry*, 1987, **26**, 2581 (*Triptofordin E*)
 Sánchez, A.A. *et al*, *Phytochemistry*, 1987, **26**, 2631
 (*Benzoyloxycetylpringleine*)
 Wakabayashi, N. *et al*, *J. Nat. Prod. (Lloydia)*, 1988, **51**, 537
 (*Celangulin*)
 González, A.G. *et al*, *Phytochemistry*, 1989, **28**, 173.
 Wang, M.T. *et al*, *Chin. Chem. Lett.*, 1991, **2**, 537 (*Angulatin A*)
 Ji-Kai, L. *et al*, *Phytochemistry*, 1991, **30**, 3437.
 Maotian, W. *et al*, *Phytochemistry*, 1991, **30**, 3931 (*Angulatin A*)
 Wu, W.J. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1294
 (*Celangulins*)
 Yonggiang, T. *et al*, *Phytochemistry*, 1992, **31**, 1281 (*deriv*)
 Itokawa, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1479
 (*cangorins*)
 González, A.G. *et al*, *Tetrahedron*, 1993, **49**, 6637 (*derivs*)

3,3',4',5,5',6,7-Heptahydroxyflavone

H-10026

Updated Entry replacing H-00394

3,5,6,7-Tetrahydroxy-2-(3,4,5-trihydroxyphenyl)-4H-1-benzopyran-4-one, 9CI. 3',4',5,5',6,7-Hexahydroxyflavonol. 6-Hydroxymyricetin



$C_{15}H_{10}O_9$ M 334.239

3,6-Di-Me ether: [101021-26-5]. 3',4',5,5',7-Pentahydroxy-3,6-dimethoxyflavone

$C_{17}H_{14}O_9$ M 362.292

Isol. from *Alluaudia ascendens* and *Gutierrezia* spp. No phys. props. reported.

4',6-Di-Me ether: [71328-59-1]. 3,3',5,5',7-Pentahydroxy-4',6-dimethoxyflavone

$C_{17}H_{14}O_9$ M 362.292

Isol. from *A. ascendens*. No phys. props. reported.

3,3',5'-Tri-Me ether: [72357-38-1]. 4',5,6,7-Tetrahydroxy-3,3',5'-trimethoxyflavone

$C_{18}H_{16}O_9$ M 376.319

Isol. from *Gardenia fosbergii*. Mp 229-232°.

3,3',6-Tri-Me ether: [74517-68-3]. 3',4',5,7-Tetrahydroxy-3,5',6-trimethoxyflavone

$C_{18}H_{16}O_9$ M 376.319

Isol. from *A. spp.*, *Decarya* sp. and *Gutierrezia microcephala*. No phys. props. reported.

3,4',6-Tri-Me ether: [71325-91-2]. 3',5,5',7-Tetrahydroxy-3,4',6-trimethoxyflavone

$C_{18}H_{16}O_9$ M 376.319

Isol. from *A. spp.*, *D. sp.* and *G. grandis*. No phys. props. reported.

3',5',6-Tri-Me ether, 3-O- β -D-glucopyranoside: [67963-64-8].

$C_{24}H_{26}O_{14}$ M 538.461

Isol. from *Tillandsia usneoides*.

3',4',6-Tri-Me ether: [139889-56-8]. 3,5,5',7-Tetrahydroxy-3',4',6-trimethoxyflavone

$C_{18}H_{16}O_9$ M 376.319

Isol. from *Premna oligotricha*. Amorph. solid. Mp 253°.

3,3',4',6-Tetra-Me ether: [30250-30-7]. 3',5,7-Trihydroxy-3,4',5',6-tetramethoxyflavone, 8CI

$C_{19}H_{18}O_9$ M 390.346

Constit. of stem and thorns of *Decarya madagascariensis* and aerial parts of *Artemisia ludoviciana* and from *Gutierrezia microcephala*. Yellow needles (MeOH). Mp 163.5-164.5°.

3',4',5',6-Tetra-Me ether, tri-Ac: [30429-35-7].

Cryst. (Et₂O). Mp 126-127°.

3,3',5',6-Tetra-Me ether: [63296-16-2]. 4',5,7-Trihydroxy-3,3',5',6-tetramethoxyflavone

$C_{19}H_{18}O_9$ M 390.346

Isol. from *Tillandsia usneoides* and *Gutierrezia* sp. Yellow cryst. (MeOH).

3,3',5',6-Tetra-Me ether, 7-O- β -D-glucopyranoside: [67963-63-7].

$C_{25}H_{28}O_{14}$ M 552.488

Isol. from *T. usneoides*.

3,4',6,7-Tetra-Me ether: [58840-32-7]. 3',5,5'-Trihydroxy-3,4',6,7-tetramethoxyflavone

$C_{19}H_{18}O_9$ M 390.346

Isol. from *Eremophila fraseri* and *Gardenia cramerii*. Yellow plates (C₆H₆/EtOH). Mp 176-178°.

3,3',4',7-Tetra-Me ether: [34211-16-0]. 3',5,6-Trihydroxy-3,4',5',7-tetramethoxyflavone. **Apuleitrin**

- $C_{19}H_{18}O_9$ M 390.346
Isol. from *Apuleia leiocarpa*. Yellow plates (EtOAc/pet. ether). Mp 175-177°.
- 3,4',6,7-Tetra-Me ether: [139889-55-7]. 3,5,5'-Trihydroxy-3',4',6,7-tetramethoxyflavone
 $C_{19}H_{18}O_9$ M 390.346
Isol. from *P. oligotricha*. Yellow needles (MeOH). Mp 211°.
- 3,4',5',6,7-Penta-Me ether: [72357-40-5]. 3',5-Dihydroxy,3,4',5',6,7-pentamethoxyflavone
 $C_{20}H_{20}O_9$ M 404.373
Constit. of *Centipeda orbicularis* and *Gardenia fosbergii*. Also isol. from *Cleome* spp. Yellow cryst. Mp 217-218°.
- 3,3',5',6,7-Penta-Me ether: [76444-62-7]. 4',5-Dihydroxy-3,3',5',6,7-pentamethoxyflavone. **Murrayanol**
 $C_{20}H_{20}O_9$ M 404.373
Isol. from fruit of *Murraya omphalocarpa*. Yellow needles (MeOH). Mp 236-237°.
- 3,3',4',5,7-Penta-Me ether: [34318-34-8]. 3',6-Dihydroxy-3,4',5,5',7-pentamethoxyflavone. **Apuleirin**
 $C_{20}H_{20}O_9$ M 404.373
Isol. from the heartwood of *Apuleia leiocarpa*. Yellow needles (CCl₄/pet. ether). Mp 218-220°.
- 3,3',5,5',6,7-Hexa-Me ether: [77390-47-7]. 4'-Hydroxy-3,3',5,5',6,7-hexamethoxyflavone
 $C_{21}H_{22}O_9$ M 418.399
Isol. from leaves of *Murraya paniculata*. Cryst. (MeOH/CHCl₃). Mp 245°.
- 3,3',4',5',6,7-Hexa-Me ether: [17245-31-7]. 5-Hydroxy-3,3',4',5',6,7-hexamethoxyflavone
 $C_{21}H_{22}O_9$ M 418.399
Isol. from *Centipeda orbicularis* and *C. amplyocarpa*. Mp 176-178°.
- 3,3',4',5',6,7-Hexa-Me ether, Ac: [17245-32-8]. Mp 183-184° (176-178°).
- Hepta-Me ether: [17245-30-6]. 3,3',4',5,5',6,7-Heptamethoxyflavone
 $C_{22}H_{24}O_9$ M 432.426
Isol. from *M. omphalocarpa* and *M. paniculata*. Needles (MeOH). Mp 156-157° (153-154°).
- 3,3',5-Tri-Me, 4',5':6,7-bis(methylene)ether: [132185-75-2]. 3,3',5-Trimethoxy-4',5':6,7-bis(methylenedioxy)flavone
 $C_{20}H_{16}O_9$ M 400.341
Isol. from *Polygonum minus*. Needles. Mp 252-253°.
- Jefferies, P.R. *et al*, *Aust. J. Chem.*, 1962, **15**, 532 (3',5,5'-Trihydroxy-3,4',6,7-tetramethoxyflavone)
- Dreyer, D.L., *J. Org. Chem.*, 1968, **33**, 3574 (synth, uv, pmr)
- Nakayama, M. *et al*, *Bull. Chem. Soc. Jpn.*, 1970, **43**, 3276 (synth, derivs)
- Braz Filho, R. *et al*, *Phytochemistry*, 1971, **10**, 2433 (*Apuleitrin*)
- Kalra, A.J. *et al*, *Indian J. Chem., Sect. B*, 1977, **15**, 393 (isol, synth, *Apuleirin*)
- Lewis, D.S. *et al*, *Phytochemistry*, 1977, **16**, 1114 (4',5,7-Trihydroxy-3,3',5',6-tetramethoxyflavone)
- Williams, C.A., *Phytochemistry*, 1978, **17**, 729 (glycosides)
- Gunatilaka, H.A.L. *et al*, *J. Chem. Res., Synop.*, 1979, 216 (derivs)
- Bohlmann, F. *et al*, *Phytochemistry*, 1979, **18**, 1067, 1069 (isol, pmr, ms)
- Rabesa, Z.A. *et al*, *Phytochemistry*, 1979, **18**, 360; 1980, **19**, 710 (isol, uv, pmr)
- Wu, T.S. *et al*, *Phytochemistry*, 1980, **19**, 2227 (isol, uv, ir, pmr, ms)
- Quijano, L. *et al*, *Phytochemistry*, 1980, **19**, 2439 (*Agecorynin D*)
- de Silva, L.B. *et al*, *Phytochemistry*, 1980, **19**, 2794 (isol, uv, pmr, ms)
- Liu, Y.-L. *et al*, *Phytochemistry*, 1982, **21**, 209 (isol)
- Sharma, P.K. *et al*, *Acta Chim. Hung.*, 1983, **112**, 27 (isol, synth)
- Fang, N. *et al*, *Phytochemistry*, 1985, **24**, 2693; 1986, **26**, 235, 927 (derivs)
- Horie, T. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 1216 (synth, derivs)
- Urones, J.G. *et al*, *Phytochemistry*, 1990, **29**, 3687 (*Bismethylene ether*)

Habtemariam, S. *et al*, *Z. Naturforsch., B*, 1992, **47**, 144 (3,5,5'-Trihydroxy-3',4',6,7-tetramethoxyflavone, 3,5,5',7-tetrahydroxy-3',4',6-trimethoxyflavone)

Heptanedioic acid, 9CI**H-10027**

Pimelic acid. Pentane-1,5-dicarboxylic acid
[111-16-0]



$C_7H_{12}O_4$ M 160.169

Isol. from stems and leaves of *Anthyllis sericea*. Prisms (H₂O). Mp 104-105°. Bp₁₀ 212°. pK_{a1} 4.46; pK_{a2} 5.58 (25°). Nonvolatile in steam.

▷ TK3677000.

Me ester: [20291-40-1].

$C_8H_{14}O_4$ M 174.196

Bp₁₈ 181-182°.

Me ester, chloride:

$C_8H_{13}ClO_3$ M 192.642

Bp₁₇ 135-136°.

Di-Me ester: [1732-08-7].

$C_9H_{16}O_4$ M 188.223

Bp₁₁ 121-122°.

Bis-4-bromophenacyl ester: Cryst. (EtOH). Mp 136.6°.

Dichloride: [142-79-0].

$C_7H_{10}Cl_2O_2$ M 197.060

Bp₁₅ 137°.

Dinitrile: [646-20-8]. 1,5-Dicyanopentane. *Pimelonitrile*

$C_7H_{10}N_2$ M 122.169

Bp₁₄ 175-176°. Solidifies to a glass.

▷ LD₅₀ (mus, orl) 126 mg/kg. MI9020000.

Org. Synth., Coll. Vol., 2, 1943, 531, 535 (synth)

Smiley, R.A. *et al*, *J. Org. Chem.*, 1960, **25**, 257 (nitrile)

Radell, J. *et al*, *J. Phys. Chem.*, 1967, **71**, 1596 (cryst struct)

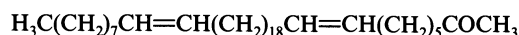
Angelo, B., *C. R. Hebd. Seances Acad. Sci.*, 1971, **273**, 1767 (synth)

Williamson, K.L. *et al*, *J. Magn. Reson.*, 1978, **30**, 367 (cmr)

Marco, J.A. *et al*, *Phytochemistry*, 1978, **17**, 1438 (occur)

Ruhoff, H. *et al*, *Synthesis*, 1988, 54 (synth, pmr)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, HBD000, PI6000.

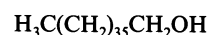
8,28-Heptatriacontadien-2-one, 9CI**H-10028**

$C_{37}H_{70}O$ M 530.959

(*Z,Z*)-form [133530-22-0]

Isol. from the snake *Boiga irregularis*.

Murata, Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 233 (isol, pmr, cmr)

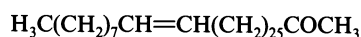
1-Heptatriacontanol**H-10029**

$C_{37}H_{76}O$ M 537.007

Constit. of *Erythrina stricta* bark. Cryst. (C₆H₆). Mp 91.2°.

Tasumi, M. *et al*, *Spectrochim. Acta*, 1964, **20**, 629 (synth, ir)

Singh, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 526 (isol)

28-Heptatriaconten-2-one, 9CI**H-10030**

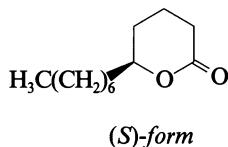
$C_{37}H_{72}O$ M 532.975

(*Z*)-form [130385-26-1]

Isol. from the snakes *Boiga irregularis* and *Thamnophis sirtalis parietalis*. Sex attractant pheromone.

Mason, R.T. *et al*, *J. Chem. Ecol.*, 1990, **16**, 2353 (*isol*)
Murata, Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 233 (*isol*, *pmr*, *cmr*)

6-Heptyltetrahydro-2H-pyran-2-one, 9CI **H-10031**
δ-Dodecalactone. Dodecan-5-olide
[713-95-1]



$C_{12}H_{22}O_2$ M 198.305
Isol. from coconut oil.

(S)-form [108943-47-1]

$[\alpha]_D -48.8^\circ$.

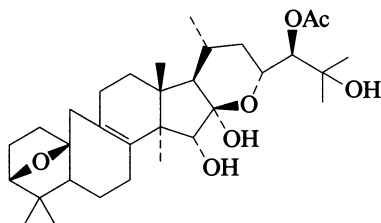
(±)-form [3051-22-7]

Liq. Mp -12° . Bp_{0.03} 100-103°. n_D^{25} 1.4684 (1.4571).

[16400-73-0]

Taylor, R.J. *et al*, *CA*, 1961, **55**, 390 (*synth*)
Allen, R.R. *et al*, *Chem. Ind. (London)*, 1965, 1560 (*isol*, *ir*)
Parliament, T.H. *et al*, *Chem. Ind. (London)*, 1966, 1845 (*synth*)
Lamberti, V. *et al*, *Recl. Trav. Chim. Pays-Bas (J. R. Neth. Chem. Soc.)*, 1967, **86**, 504 (*synth*)
Kohver, O., *Tetrahedron*, 1970, **26**, 2391 (*abs config*, *ord*, *cd*)
Opdyke, D.L.J., *Food Cosmet. Toxicol.*, 1979, **17**, 773 (*rev*, *tox*)
Bianco, L. *et al*, *Tetrahedron Lett.*, 1988, **29**, 1915.

Heracleifolinol **H-10032**
[151201-78-4]

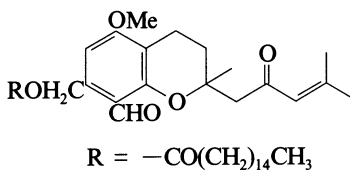


$C_{32}H_{50}O_7$ M 546.743

Constit. of *Cimicifuga heracleifolia*. Needles. Mp 238-239°.
 $[\alpha]_D +33.8^\circ$ (c, 0.45 in $CHCl_3$).

Li, J.X. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 832 (*isol*, *pmr*, *cmr*)

Hericenone F **H-10033**
[141996-36-3]



$C_{35}H_{54}O_6$ M 570.808

Constit. of the mushroom *Heridium erinaceum*. Pale yellow oil. Racemic.

Kawagishi, H. *et al*, *Phytochemistry*, 1993, **32**, 175 (*isol*, *pmr*, *cmr*)

Hericenone G **H-10034**
[141973-36-6]

As Hericenone F, H-10033 with

R = $-CO(CH_2)_{16}CH_3$

$C_{37}H_{58}O_6$ M 598.862

Const. of the mushroom *Heridium erinaceum*. Pale yellow plates ($CHCl_3$ /EtOH). Mp 56-58°.

Kawagishi, H. *et al*, *Phytochemistry*, 1993, **32**, 175 (*isol*, *pmr*, *cmr*)

Hericenone H **H-10035**
[141973-37-7]

As Hericenone F, H-10033 with

R = $-CO(CH_2)_7CH=CHCH_2CH=CH(CH_2)_4CH_3$

$C_{37}H_{54}O_6$ M 594.830

Constit. of the mushroom *Heridium erinaceum*. Pale yellow oil.

Kawagishi, H. *et al*, *Phytochemistry*, 1993, **32**, 175 (*isol*, *pmr*, *cmr*)

17,20-Hexacosadienoic acid **H-10036**
[59708-85-9]

$H_3C(CH_2)_4CH=CHCH_2CH=CH(CH_2)_{15}COOH$

$C_{26}H_{48}O_2$ M 392.664

(Z,Z)-form [76014-34-1]

Found in the marine sponge *Microciona prolifera*.

Me ester:

$C_{27}H_{50}O_2$ M 406.691

Ir ν_{CO} 1742 cm^{-1} .

Morales, R.W. *et al*, *Biochim. Biophys. Acta*, 1976, **431**, 206 (*isol*)

Kling, M.R. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1993, 1183 (*synth*, *ir*, *ms*)

19-Hexacosenal **H-10037**

$H_3C(CH_2)_5CH=CH(CH_2)_{17}CHO$

$C_{26}H_{50}O$ M 378.680

(Z)-form [140163-49-1]

Constit. of the sponge *Amphimedon compressa*.

Carballeira, N.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 333.

4,9-Hexadecadienoic acid **H-10038**

$H_3C(CH_2)_5CH=CH(CH_2)_3CH=CHCH_2CH_2COOH$

$C_{16}H_{28}O_2$ M 252.396

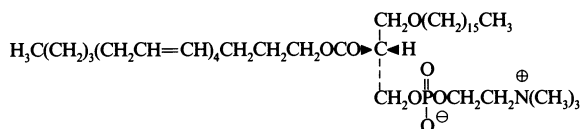
(Z,Z)-form [133177-84-1]

Constit. of the lipid fraction from *Prochlorothrix hollandica*.

Gombos, Z. *et al*, *Plant Cell Physiol.*, 1991, **32**, 73 (*isol*)

1-O-Hexadecyl-2-O-arachidonoyl-sn-glycero-3-phosphocholine **H-10039**

7-[(Hexadecyloxy)methyl]-4-hydroxy-N,N,N-trimethyl-9-oxo-3,5,8-trioxa-4-phosphaoctacos-13,16,19,22-tetraen-1-aminium hydroxide, inner salt, 4-oxide. Arachidonyl-PAF [86288-11-1]



$C_{44}H_{82}NO_7P$ M 768.108

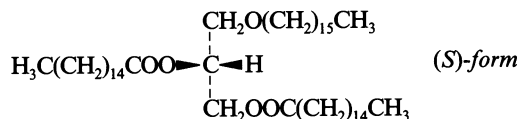
Main source of arachidonic acid from human neutrophils and macrophages.

Robinson, M. *et al*, *J. Biol. Chem.*, 1985, **260**, 7889 (*biosynth*)

Kramer, R.M. *et al*, *Biochim. Biophys. Acta*, 1988, **959**, 269 (*synth, biochem*)
 Leslie, C.C., *Methods Enzymol.*, 1990, **187**, 216 (*synth, props*)

1-*O*-Hexadecyl-2,3-di-*O*-hexadecanoylglycerol **H-10040**

1-Hexadecyloxy-2,3-dihexadecanoyloxypropane
 [1116-45-6]

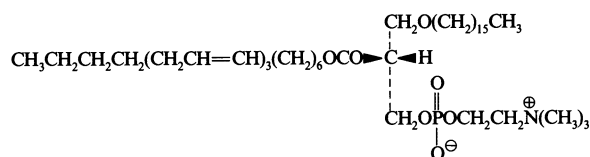


$\text{C}_{51}\text{H}_{100}\text{O}_5$ M 793.348
 Isol. from the soft coral *Lobophytum* spp. Commercially available. Solid. Mp 56-57°. $[\alpha]_{\text{D}}^{20} + 7.40^\circ$ (c, 1.0 in CHCl_3).

Subrahmanyam, C. *et al*, *Tetrahedron*, 1992, **48**, 3111 (*isol, pmr, cmr*)
 Chenevert, R. *et al*, *J. Org. Chem.*, 1993, **58**, 1054 (*synth, ir, pmr, cmr*)

1-*O*-Hexadecyl-2-*O*-dihomogammalinolenoyl-*sn*-glycero-3-phosphocholine **H-10041**

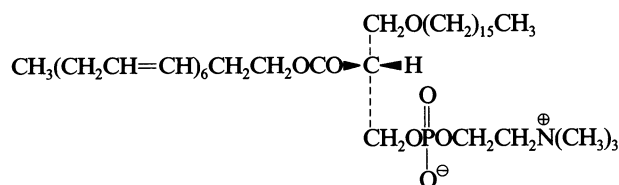
DHLA-PAF
 [131907-73-8]



$\text{C}_{44}\text{H}_{84}\text{NO}_7\text{P}$ M 770.124
 Isol. from the Japanese oyster *Crassostrea gigas*. PAF precursor.
 Jeong, B.Y., *Lipids*, 1990, **25**, 624 (*isol*)

1-*O*-Hexadecyl-2-*O*-docosahexaenoyl-*sn*-glycero-3-phosphocholine **H-10042**

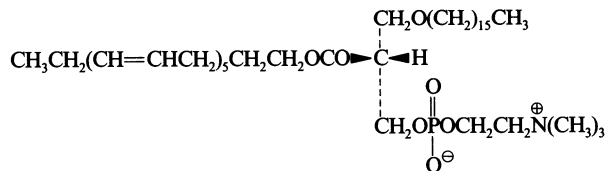
DCHA-PAF
 [97717-93-6]



$\text{C}_{46}\text{H}_{82}\text{NO}_7\text{P}$ M 792.130
 Isol. from the Japanese oyster *Crassostrea gigas*. PAF precursor.
 Robinson, M. *et al*, *J. Biol. Chem.*, 1985, **260**, 7889 (*synth*)
 Jeong, B.Y. *et al*, *Lipids*, 1990, **25**, 624 (*isol*)

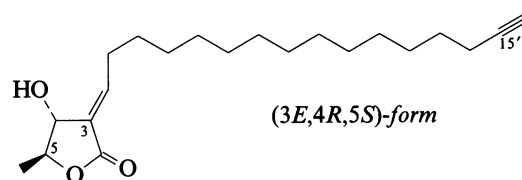
1-*O*-Hexadecyl-2-*O*-eicosapentaenoyl-*sn*-glycero-3-phosphocholine **H-10043**

EPA-PAF
 [132196-28-2]



$\text{C}_{44}\text{H}_{80}\text{NO}_7\text{P}$ M 766.092
 Isol. from the Japanese oyster *Crassostrea gigas*. PAF precursor.
 Jeong, B.Y., *Lipids*, 1990, **25**, 624 (*isol*)

3-(15-Hexadecynylidene)dihydro-4-hydroxy-5-methyl-2(3*H*)-furanone **H-10044**



$\text{C}_{21}\text{H}_{34}\text{O}_3$ M 334.498

(3*E*,4*R*,5*S*)-form [71339-54-3] *Isodihydromahubynolide A*
 Isol. from the trunkwood of *Clinostemon mahuba*. Mp 64-65°. $[\alpha]_{\text{D}}^{24} + 42.4^\circ$.

15',16'-Dihydro: [71339-52-1]. *Isodihydromahubenolide A*
 $\text{C}_{21}\text{H}_{36}\text{O}_3$ M 336.514

From *C. mahuba*. Mp 45-46°. $[\alpha]_{\text{D}}^{24} + 37.1^\circ$.
15',15',16',16'-Tetrahydro: [71359-05-2].

Isodihydromahubanolide A
 $\text{C}_{21}\text{H}_{38}\text{O}_3$ M 338.529
 From *C. mahuba*. Mp 49-50°. $[\alpha]_{\text{D}}^{24} + 36.6^\circ$.

(3*E*,4*S*,5*S*)-form [71325-96-7] *Isodihydromahubynolide B*
 From *C. mahuba*. Mp 79-80°. $[\alpha]_{\text{D}}^{24} - 90.2^\circ$.

15',16'-Dihydro: [71325-94-5]. *Isodihydromahubenolide B*
 $\text{C}_{21}\text{H}_{36}\text{O}_3$ M 336.514

From *C. mahuba*. Mp 66-67°. $[\alpha]_{\text{D}}^{24} - 96.5^\circ$.
15',15',16',16'-Tetrahydro: [71358-20-8].

Isodihydromahubanolide B
 $\text{C}_{21}\text{H}_{38}\text{O}_3$ M 338.529
 From *C. mahuba*. Mp 70-71° (78-79°). $[\alpha]_{\text{D}}^{24} - 93.3^\circ$, $[\alpha]_{\text{D}}^{21} - 102^\circ$ (dioxan).

(3*Z*,4*R*,5*S*)-form [71339-53-2] *Dihydromahubynolide A*
 From *C. mahuba*. Mp 61-63°. $[\alpha]_{\text{D}}^{24} + 9.0^\circ$.

15',16'-Dihydro: [71339-51-0]. *Dihydromahubenolide A*
 $\text{C}_{21}\text{H}_{36}\text{O}_3$ M 336.514

From *C. mahuba*. Mp 48-50°. $[\alpha]_{\text{D}}^{24} + 8.5^\circ$.
15',15',16',16'-Tetrahydro: [71359-04-1].

Dihydromahubanolide A
 $\text{C}_{21}\text{H}_{38}\text{O}_3$ M 338.529
 From *C. mahuba*.

(3*Z*,4*S*,5*S*)-form [71325-95-6] *Dihydromahubynolide B*
 From *C. mahuba*. Mp 55-56°. $[\alpha]_{\text{D}}^{24} - 32.6^\circ$.

15',16'-Dihydro: [71325-93-4]. *Dihydromahubenolide B*
 $\text{C}_{21}\text{H}_{36}\text{O}_3$ M 336.514

From *C. mahuba*. Mp 46-47°. $[\alpha]_{\text{D}}^{24} - 35.1^\circ$.
15',16'-Tetrahydro: [71325-97-8]. *Dihydromahubanolide B*
 $\text{C}_{21}\text{H}_{38}\text{O}_3$ M 338.529

From *C. mahuba*. Mp 66-67°. $[\alpha]_{\text{D}}^{21} - 37^\circ$ (dioxan).

[71358-21-9, 78339-87-4, 78339-88-5, 78339-89-6, 121703-31-9]

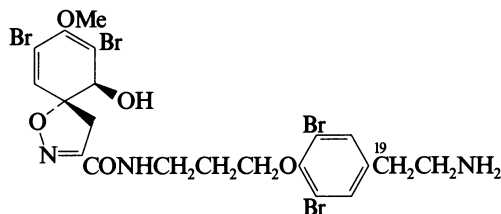
Rollinson, S.W. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 4114 (*synth*)
 Amos, R.A. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 4114
 (*Dihydromahubanolide B*)
 Martinez, J.C. *et al*, *Phytochemistry*, 1981, **20**, 459 (*isol*)
 Tanaka, K. *et al*, *Bull. Chem. Soc. Jpn.*, 1982, **55**, 3935
 (*Dihydromahubanolide B*, *Isodihydromahubanolide B*)
 Ortuno, R.M. *et al*, *Tetrahedron*, 1988, **44**, 5139 (*abs config*)
 Wood, W.W. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1990, 3201
 (*synth*)

Hexadellin A

H-10045

Updated Entry replacing H-00625

[121135-00-0]

C₂₁H₂₃Br₄N₃O₅ M 717.046Metab. from the deep water sponge *Hexadella* sp.19-Hydroxy, N-Ac: [150417-69-9]. *Aplysinamisine III*C₂₃H₂₅Br₄N₃O₇ M 775.082Isol. from the Caribbean sponge *Aplysina cauliformis*.Semisolid. [α]_D²⁶ + 69.0° (c, 6.4 in MeOH).Morris, S.A. *et al*, *Can. J. Chem.*, 1989, **67**, 677 (*isol*, *ir*, *pmr*, *cmr*,
ms, *struct*)Rodriguez, A.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 907
 (*Aplysinamisine III*)**2,4-Hexadien-1-ol, 9CI**

H-10046

4-Ethylideneacetyl alcohol. Sorbyl alcohol

[111-28-4]

C₆H₁₀O M 98.144

Sex pheromone component of many insect species.

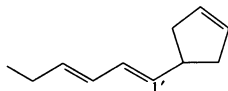
Needles. Mp 30.5-31.5°. Bp₁₂ 76-77°. Steam-volatile.▷ Skin and eye irritant. LD₅₀ (rat, orl) 2140 mg/kg. LD₅₀
 (rat, skn) 1010 mg/kg. MM3325000.

3,5-Dinitrobenzoyl: Yellow needles (pet. ether). Mp 85°.

Reichstein, T. *et al*, *Helv. Chim. Acta*, 1932, **15**, 261 (*synth*)Baldwin, J.E. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 1542 (*synth*)Paquette, L.A. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 4411 (*synth*,
spectra)Vinczer, P. *et al*, *Org. Prep. Proced. Int.*, 1992, **24**, 349 (*synth*, *pmr*,
bibl)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th
 Ed., Van Nostrand-Reinhold, 1992, HCS500.**4-(1,3-Hexadienyl)-1-cyclopentene**

H-10047

1-(3-Cyclopenten-1-yl)-1,3-hexadiene

C₁₁H₁₆ M 148.247

(1'E,3'Z)-form [143520-77-8]

Constit. of the brown alga *Dictyopteris acrostichoides*.3',4'-Dihydro: [107531-28-2]. 4-(1-Hexenyl)cyclopentene. 1-
 (3-Cyclopenten-1-yl)-1-hexeneC₁₁H₁₈ M 150.263Constit. of *D. spp.* and *Scytosiphon lomentaria*.

(1'E,3'Z)-form [143520-76-7]

Constit. of *D. acrostichoides*.Kajiwara, T. *et al*, *Phytochemistry*, 1989, **28**, 636 (*isol*, *deriv*)Wirth, D. *et al*, *Helv. Chim. Acta*, 1992, **34**, 734.**1-(1,3-Hexadienyl)-2-vinylcyclopropane**

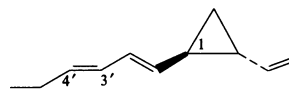
H-10048

Updated Entry replacing H-00629

1-Ethenyl-2-(1,3-hexadienyl)cyclopropane, 9CI.

Dictyoptere B. Hormosirene

[50265-58-2]



(1R,1'E,2R,3'E)-form

C₁₁H₁₆ M 148.247

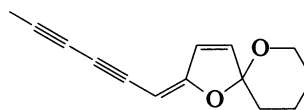
(1R,1'E,2R,3'E)-form [103833-89-2]

Isol. from *Dictyopteris acrostichoides*.3',4'-Dihydro: [25047-20-5]. 1-(1-Hexenyl)-2-
 vinylcyclopropane. *Dictyoptere A*C₁₁H₁₈ M 150.263Isol. from *D. spp.* and from *Spermatocnus paradoxus*.Oil. [α]_D²¹ + 77° (c, 0.5 in EtOH).

(1R,1'E,2R,3'Z)-form [29837-20-5]

Constit. of the essential oil of algae *D. spp.* Oil. Bp_{0,3}
 62°. [α]_D²⁴ - 43° (c, 10.1 in CHCl₃). The (R,R)-form is
 usually secreted exclusively by the female gametes, but
 both enantiomers are attractive to the male gametes of
 some species.Weinstein, B. *et al*, *J. Chem. Soc., Chem. Commun.*, 1971, 940
 (*synth*)Moore, R.E. *et al*, *J. Org. Chem.*, 1974, **39**, 2201 (*isol*)Müller, D.G. *et al*, *Naturwissenschaften*, 1981, **67**, 476.Jaenicke, L. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1982, **21**, 643 (*rev*)Müller, D.G. *et al*, *Experientia*, 1984, **40**, 211 (*isol*)Colobert, F. *et al*, *Tetrahedron Lett.*, 1985, **26**, 2779 (*synth*)Dorsch, D. *et al*, *Tetrahedron Lett.*, 1985, **26**, 3319 (*synth*)Abraham, W.D. *et al*, *J. Am. Chem. Soc.*, 1991, **113**, 2313 (*synth*)Grandjean, D. *et al*, *Tetrahedron*, 1991, **47**, 1215 (*synth*)Wirth, D. *et al*, *Helv. Chim. Acta*, 1992, **34**, 734 (*occur*)**2-(2,4-Hexadiynylidene)-1,6-dioxaspiro[4.5]dec-3-ene**

H-10049



(E)-form

C₁₄H₁₄O₂ M 214.263

(E)-form [3306-40-9]

Constit. of *Chrysanthemum spp.* and of *Artemisia princeps*, also of roots of *Tanacetum vulgare*. Mp 83°. [α]_D²⁰ + 29° (c, 2.0 in Et₂O). Also descr. as resinous liq.

8-O-Ac: 8-Acetoxy-2-(2,4-hexadiynylidene)-1,6-dioxaspiro[4.5]dec-3-ene

C₁₆H₁₆O₄ M 272.300Isol. from roots of *C. arcticum*. λ_{max} 240, 254, 310, 318 nm. Not obt. pure.

8-O-(3-Methylbutanoyl): 8-Isovaleryloxy-2-(2,4-hexadiynylidene)-1,6-dioxaspiro[4.5]dec-3-ene

C₁₉H₂₂O₄ M 314.380Isol. from roots of *Artemisia pedemontana*. Cryst. (pet. ether). Mp 93-94°. [α]_D²³ + 7.7° (c, 1.71 in Et₂O).

(Z)-form [5535-87-5]

Constit. of the roots of *C. arcticum*, *C. serotinum*, *C. pyrethrum*, and *A. princeps*. Mp 78°. [α]_D 0°. Both isomers also descr. as resinous liquids.

8-O-Ac: Isol. from roots of *C. arcticum*, *C. serotinum* and *A. pedemontana*. Cryst. (Et₂O/pet. ether). Mp 127°. [α]_D²³ +15.2° (c, 3.08 in Et₂O).

8-O-(3-Methylbutanoyl): Isol. from roots of *A. pedemontana*. Cryst. (pet. ether). Mp 87-88°. [α]_D²³ -35.1° (c, 2.45 in Et₂O).

Deoxy, 3,4-epoxy: 2-(2,4-Hexadiynylidene)-3,4-epoxy-1,6-dioxaspiro[4.5]decane

C₁₄H₁₄O₃ M 230.263

Isol. from roots of *C. pyrethrum*. λ_{\max} 224, 264, 276.5, 291.5 nm. No stereochem.

Bohlmann, F. *et al*, *Chem. Ber.*, 1960, **93**, 1937; 1961, **94**, 3193; 1963, **96**, 226; 1964, **97**, 1179; 1966, **99**, 990, 1830, 2416.

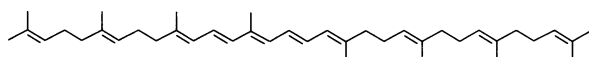
Yano, K. *et al*, *Phytochemistry*, 1972, **11**, 2577.

7,7',8,8',11,12-Hexahydrolycopene H-10050

Updated Entry replacing H-00654

7,7',8,8',11,12-Hexahydro- ψ,ψ -carotene. *Phytofluene*

[540-05-6]



C₄₀H₆₂ M 542.930

Constit. of *Neurospora* spp. and other microorganisms.

Widespread in plants. Pale-yellow oil with brilliant green fluorescence. The (all-*E*) and several mono- and di-*Z* isomers appear to occur naturally.

9*Z*-form

9-*cis*-Phytofluene

C₄₀H₆₂ M 542.930

Constit. of *Dunaliella bardawil*. Pale yellow liq.

(15*Z*,9'*Z*)-form [72746-34-0]

Isol. from *Lycopersicon esculentum* var. 'Tangella'.

Yellow oil with intense blue-green fluorescence. λ_{\max} 249, 257, 331, 348, 367 nm (hexane).

Zechmeister, L. *et al*, *Arch. Biochem. Biophys.*, 1953, **47**, 160 (occur)

Davis, J.B. *et al*, *J. Chem. Soc. C*, 1966, 2154 (isol, struct)

Karrer, W. *et al*, *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd Ed., Birkhäuser Verlag, Basel, 1972-1985, no. 1817 (occur)

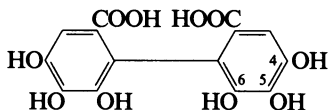
Brown, D.J. *et al*, *Biochem. Soc. Trans.*, 1975, **3**, 741 (biosynth)

Clough, J.M. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1983, 3011 (15*Z*, 9'*Z*-form, ir, pmr, cmr)

Frecknall, E.A. *et al*, *Phytochemistry*, 1984, **23**, 1707 (occur)

Ebenezer, W.J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1993, 1869 (9*Z*-isomer)

4,4',5,5',6,6'-Hexahydroxy-2,2'-biphenyldicarboxylic acid H-10051



C₁₄H₁₀O₁₀ M 338.227

5,6:5',6'-Bis(methylene), 4,4'-di-Me ether, di-Me ester: [73536-69-3]. Dimethyl 4,4'-dimethoxy-5,6:5',6'-bis(methylenedioxy)biphenyl-2,2'-dicarboxylate

C₂₀H₁₈O₁₀ M 418.356

Constit. of *Astragalus membranaceus* ssp. *mongolicus* and *Fructus schizandrae*. Antihepatopathic agent.

[111897-19-9, 111897-25-7, 111897-26-8]

Liu, G., *Yaoxue Xuebao*, 1983, **18**, 714; *CA*, **100**, 61163 (isol, props)

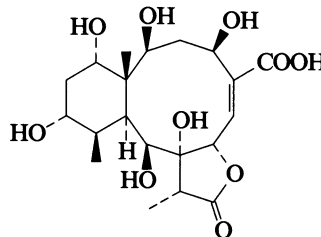
Zhang, C. *et al*, *Kexue Tongbao (Foreign Lang. edn.)*, 1987, **32**, 72; *CA*, **108**, 21463s (resoln)

He, Z.Q. *et al*, *Yaoxue Xuebao*, 1990, **25**, 694; *CA*, **114**, 58918u (isol)

Zhan, S. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 29 (synth)

Wu, W.L. *et al*, *Eur. J. Med. Chem. (Chim. Ther.)*, 1992, **27**, 353 (synth)

2,4,8,9,12,14-Hexahydroxy-5-briaren-18,7-olid-16-oic acid H-10052



C₂₀H₃₀O₁₀ M 430.451

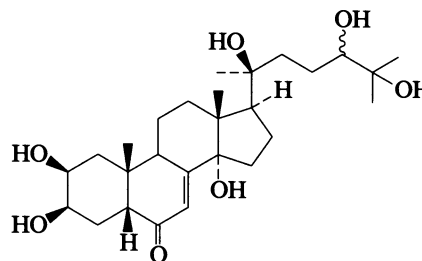
4-(3-Acetoxybutanoyl), 2,9,12,14-tetra-Ac, Me ester: *Erythrolide J*

C₃₈H₄₈O₁₇ M 740.754

Constit. of *Erythropodium caribaeorum*. Amorph. solid. [α]_D +17.3° (c, 0.33 in CHCl₃).

Dookran, R. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1051 (isol, pmr, cmr)

2,3,14,20,24,25-Hexahydroxycholest-7-en-6-one H-10053



C₂₇H₄₄O₇ M 480.640

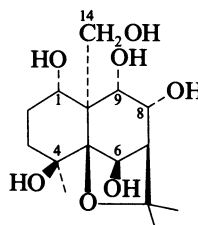
(2 β ,3 β ,5 β ,14 α ,20*S*,24 ζ)-form [146959-88-8]

Constit. of *Vitex pinnata*. Amorph. solid (MeOH/EtOAc). Mp 198-200°. [α]_D²⁵ +41.2° (c, 0.2 in MeOH).

Suksamrarn, A. *et al*, *Phytochemistry*, 1993, **32**, 303 (isol, pmr, cmr)

1,4,6,8,9,14-Hexahydroxydihydro- β -agarofuran H-10054

Updated Entry replacing H-00689



(1 α ,4 β ,6 β ,8 α ,9 α)-form

C₁₅H₂₆O₇ M 318.366

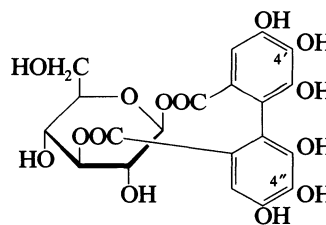
(1 α ,4 β ,6 β ,8 α ,9 α)-form

ent-5 α ,11-Epoxy-1 β ,4 α ,6 α ,8 β ,9 β ,14-eudesmanehexol. Isoalatalol

- 1,9-Dibenzoyl, 6,8,14-Tri-Ac: **6 β ,8 α ,14-Triacetoxyl-1 α ,9 α -dibenzoyloxy-4 β -hydroxydihydro- β -agarofuran**
 C₃₅H₄₀O₁₂ M 652.694
 Constit. of *Maytenus canariensis*. Cryst. Mp 212-213°.
- 1-Cinnamoyl, 9-benzoyl, 6,8,14-tri-Ac: [112018-96-9].
Triptofordin D2
 C₃₇H₄₂O₁₂ M 678.732
 Constit. of *Tripterygium wilfordii*. Needles (MeOH). Mp 103-109°. [α]_D²⁷ -3.5° (c, 0.28 in MeOH).
- 1-(E-Cinnamoyl), 8-(3-pyridinecarbonyl), 9-benzoyl, 6,14-di-Ac: [112494-33-4]. **Triptofordinine A1**
 C₄₁H₄₃NO₁₂ M 741.790
 Alkaloid from leaves of *Tripterygium wilfordii* var. *regelii* (Celastraceae). Mp 193-194°. [α]_D -81.4° (MeOH).
- 1-(Z-Cinnamoyl), 8-(3-pyridinecarbonyl), 9-benzoyl, 6,14-di-Ac: [112571-89-8]. **Triptofordinine A2**
 C₄₁H₄₃NO₁₂ M 741.790
 Alkaloid from *T. wilfordii* var. *regelii*. Mp 93-94°. [α]_D -101.0° (MeOH).
- 9-Benzoyl, 8-(2-methylbutanoyl), 1,6,14-tri-Ac: **1 α ,6 β ,14-Triacetoxyl-9 α -benzoyloxy-4 β -hydroxy-8 α -(2-methylbutanoyloxy)dihydro- β -agarofuran**
 C₃₃H₄₄O₁₂ M 632.703
 Constit. of *Maytenus canariensis*. Amorph. solid. Mp 57°.
- 1,9-Dibenzoyl, 8-(2-methylbutanoyl), 6,14-di-Ac: **6 β ,14-Diacetoxyl-1 α ,9 α -dibenzoyloxy-4 β -hydroxy-8 α -(2-methylbutanoyloxy)dihydro- β -agarofuran**
 C₃₈H₄₆O₁₂ M 694.774
 Constit. of *M. canariensis*. Amorph. solid. Mp 62°.
- 1-(3-Pyridinecarbonyl): **Tripterregeline A**
 C₂₁H₂₉NO₈ M 423.462
 Alkaloid from the stem bark of *Tripterygium regelii* (Celastraceae).
- 9-(3-Pyridinecarbonyl), 1-benzoyl: **Tripterregeline B**
 C₂₈H₃₃NO₉ M 527.570
 Alkaloid from the stem bark of *T. regelii* (Celastraceae).
- 9-(3-Pyridinecarbonyl), 1-benzoyl, 8,14-di-Ac:
Tripterregeline C
 C₃₂H₃₇NO₁₁ M 611.644
 Alkaloid from the stem bark of *T. regelii* (Celastraceae).
- 9-Benzoyl, 1,6,8,14-tetra-Ac:
 C₃₀H₃₈O₁₂ M 590.623
 Constit. of *M. canariensis*. Amorph. solid (CHCl₃). Mp 75-76°. [α]_D²⁵ -21.7° (c, 0.35 in CHCl₃).
- 9-Benzoyl, 6,8,14-tri-Ac:
 C₂₈H₃₆O₁₁ M 548.586
 Constit. of *M. canariensis*. Oil. [α]_D²⁵ +25.0° (c, 0.22 in CHCl₃).
- 9-Benzoyl, 1,6,14-tri-Ac:
 C₂₈H₃₆O₁₁ M 548.586
 Constit. of *M. canariensis*. Oil. [α]_D²⁵ -23.3° (c, 0.25 in CHCl₃).
- 8,9-Dibenzoyl, 6,14-di-Ac:
 C₃₃H₃₈O₁₁ M 610.657
 Constit. of *M. canariensis*. Oil. [α]_D²⁵ -39.7° (c, 0.37 in CHCl₃).
- 1,8,9-Tribenzoyl, 6,14-di-Ac:
 C₄₀H₄₂O₁₂ M 714.765
 Constit. of *M. canariensis*. Amorph. solid (CHCl₃). Mp 174-175°. [α]_D²⁵ +52.7° (c, 2.3 in CHCl₃).
- (1 α ,4 β ,6 β ,8 β ,9 α)-form
 ent-5 α ,11-Epoxy-1 β ,4 α ,6 α ,8 α ,9 β ,14-eudesmanehexol
- 1-Benzoyl, 9,14-di-Ac: [107602-75-5]. **9 α ,14-Diacetoxyl-1 α -benzoyloxy-4 β ,6 β ,8 β -trihydroxydihydro- β -agarofuran**
 C₂₆H₃₄O₁₀ M 506.549
 Constit. of *Rzedowskia tolantonguensis*. Cryst. (EtOAc/hexane). Mp 278-281°.
- 1-Benzoyl, 6,9,14-tri-Ac: [107602-77-7]. **6 β ,9 α ,14-Triacetoxyl-1 α -benzoyloxy-4 β ,8 β -dihydroxydihydro- β -agarofuran**
 C₂₈H₃₆O₁₁ M 548.586
 From *R. tolantonguensis*. Cryst. (EtOAc/hexane). Mp 142-145°.
- 1-Benzoyl, 6,8,9,14-tetra-Ac: [107602-74-4]. **6 β ,8 β ,9 α ,14-Tetraacetoxyl-1 α -benzoyloxy-4 β -hydroxydihydro- β -agarofuran**
 C₃₀H₃₈O₁₂ M 590.623
 From *R. tolantonguensis*. Cryst. (EtOAc/hexane). Mp 210-212°.
- 1,8-Dibenzoyl, 9,14-di-Ac: [107602-78-8]. **9 α ,14-Diacetoxyl-1 α ,8 β -dibenzoyloxy-4 β ,8 β -dihydroxydihydro- β -agarofuran**
 C₃₃H₃₈O₁₁ M 610.657
 From *R. tolantonguensis*. Cryst. (EtOAc/C₆H₆). Mp 202-204°.
- 8-Ketone, 1-benzoyl, 6,9,14-tri-Ac: [107602-76-6]. **6 β ,9 α ,14-Triacetoxyl-1 α -benzoyloxy-4 β -hydroxy-8-oxodihydro- β -agarofuran**
 C₂₈H₃₄O₁₁ M 546.570
 From *R. tolantonguensis*. Cryst. (EtOAc/hexane). Mp 224-226°.
- 8-Ketone, 1-cinnamoyl, 9-benzoyl, 6,14-di-Ac:
 [111950-42-6]. **Triptofordin D1**
 C₃₅H₃₈O₁₁ M 634.679
 Constit. of *T. wilfordii*. Needles (MeOH). Mp 224-226°. [α]_D²⁷ +56.1° (c, 0.25 in MeOH).
 [128197-56-8, 128385-39-7]
 González, A.G. *et al*, *Heterocycles*, 1986, **24**, 3379.
 Takaishi, Y. *et al*, *Chem. Pharm. Bull.*, 1987, **35**, 3534 (Triptofordinins)
 Takaishi, Y. *et al*, *Phytochemistry*, 1987, **26**, 2581 (Triptofordins)
 Han, B.H. *et al*, *Arch. Pharmacol. Res.*, 1989, **12**, 310 (Tripterregelines)
 González, A.G. *et al*, *Phytochemistry*, 1989, **28**, 173; 1990, **29**, 2577.
 González, A.G. *et al*, *Tetrahedron*, 1993, **49**, 697 (*derivs*)

1,3-Hexahydroxydiphenoylglucose

H-10055

C₂₀H₁₈O₁₄ M 482.354 **β -D-Pyranose-form**

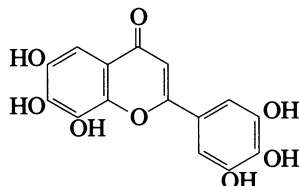
4',4''-Di-Me ether: [87042-28-2].

C₂₂H₂₂O₁₄ M 510.407Isol. from the roots of *Prosopis juliflora*.Malhotra, S. *et al*, *Curr. Sci.*, 1983, **52**, 583 (*isol*)

3',4',5',6,7,8-Hexahydroxyflavone

H-10056

6,7,8-Trihydroxy-2-(3,4,5-trihydroxyphenyl)-4H-1-benzopyran-4-one, 9CI
[132186-54-0]



$C_{15}H_{10}O_8$ M 318.239
Cryst. Mp 302°.

8-O- β -D-Glucopyranoside: [132186-53-9]. *Atyloside*

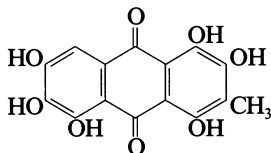
$C_{21}H_{20}O_{13}$ M 480.381

Isol. from *Atylosia scarabaeoides*. Yellow microcryst. (MeOH). Mp 245°.

Gupta, R.K. *et al*, *Indian J. Chem., Sect. B*, 1990, **29**, 1154.

1,2,4,5,6,7-Hexahydroxy-3-methylanthraquinone

H-10057



$C_{15}H_{10}O_8$ M 318.239

1-Me ether: [81126-80-9]. 2,4,5,6,7-Pentahydroxy-1-methoxy-3-methylanthraquinone

$C_{16}H_{12}O_8$ M 332.266

Isol. from the seeds of *Cassia javanica*. Mp 170° (as per-Ac).

Hexa-Me ether: [81126-82-1]. 1,2,4,5,6,7-Hexamethoxy-3-methylanthraquinone

$C_{21}H_{22}O_8$ M 402.400

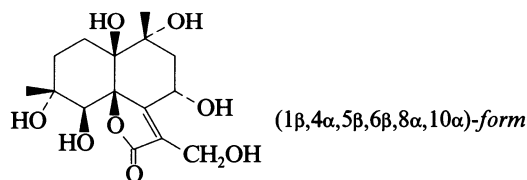
Mp 220°.

Tiwari, R.D. *et al*, *Planta Med.*, 1981, **43**, 381.

1,4,5,8,10,13-Hexahydroxy-7(11)-muurolen-12,6-olide

H-10058

Updated Entry replacing H-00763



$C_{15}H_{22}O_8$ M 330.334

(1 β ,4 α ,5 β ,6 β ,8 α ,10 α)-form

5,8,10-Tri-Ac:

$C_{21}H_{28}O_{11}$ M 456.446

Constit. of *Vernonia nudiflora*. Gum.

5,8,10,13-Tetra-Ac:

$C_{23}H_{30}O_{12}$ M 498.483

Constit. of *Chrysolaena verbascifolia*. Gum.

13-Tigloyl, 5,8,10-tri-Ac:

$C_{26}H_{34}O_{12}$ M 538.547

Constit. of *V. jalcana*. Gum.

(1 β ,4 β ,5 β ,6 β ,8 α ,10 α)-form

5,8,10,13-Tetra-Ac:

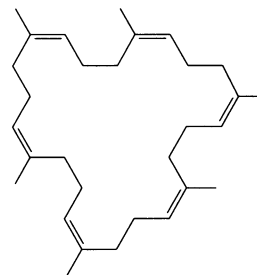
$C_{23}H_{30}O_{12}$ M 498.483

Constit. of *Lessingianthus rubricaulis*. Gum.

Bardón, A. *et al*, *Phytochemistry*, 1992, **31**, 609; 1993, **34**, 253 (isol, pmr)

1,5,9,13,17,21-Hexamethyl-1,5,9,13,17,21-cyclotetracosahexaene

H-10059



$C_{30}H_{48}$ M 408.709

(all-Z)-form

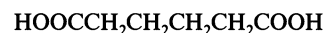
Constit. of *Alangium ridleyi*. Wax.

Ng, A.-S. *et al*, *Phytochemistry*, 1993, **33**, 243 (isol, pmr, cmr)

Hexanedioic acid, 9CI

H-10060

Adipic acid. Butane-1,4-dicarboxylic acid
[124-04-9]



$C_6H_{10}O_4$ M 146.143

Obt. industrially by oxidn. of cyclohexane by air/catalyst followed by HNO_3 . Constit. of leaves and stems of *Anthyllis sericea*. Used in manuf. of nylons, also plasticisers, resins and as food acidulant. Used in pptn. of Al, Zr, U(VI) and standardization of base solns. Important industrial chemical, 46th in order of volume for USA in 1990 (production 0.82 million tons/year). Monoclinic cryst. (HNO_3). Sol. EtOH; spar. sol. Et₂O; mod. sol. H₂O. Mp 153°, Mp 149-150°. Bp₁₅: 216°. pK_{a1} 4.41; pK_{a2} 5.41 (20°), pK_{a1} 4.44; pK_{a2} 5.44 (25°). Sublimes. Does not readily form a monomeric anhydride; forms a polymeric anhydride which gives the unstable monomer on dist.

▷ AU8400000.

Me ester: [627-91-8].

$C_7H_{12}O_4$ M 160.169

Mp 3°. Bp₁₀ 162°.

Di-Me ester: [627-93-0].

$C_8H_{14}O_4$ M 174.196

Fp 0°, Mp 8°.

▷ AV1645000.

Dichloride: [111-50-2].

$C_6H_8Cl_2O_2$ M 183.033

Bp₁₈ 130-132° sl. dec.

Monoamide: Adipamic acid

$C_6H_{11}NO_3$ M 145.158

Needles (H₂O). Mp 125-130°.

Diamide: [628-94-4]. Hexanediamide. Adipamide

$C_6H_{12}N_2O_2$ M 144.173

Mp 220°.

▷ AU7800000.

Dinitrile: [111-69-3]. 1,4-Dicyanobutane. Adiponitrile

$C_6H_8N_2$ M 108.143

Sol. EtOH, CHCl₃; insol. H₂O, Et₂O, CS₂. Mp 0-1°.

Bp₂₀ 181°.

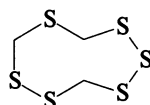
▷ High oral toxicity. Emits HCN on combustion. AV2625000.

Hill, J.W., *J. Am. Chem. Soc.*, 1930, **52**, 4110 (*anhydride*)
Org. Synth., Coll. Vol., 1, 1932, 18 (*synth*)
 Henne, A.L. *et al*, *J. Am. Chem. Soc.*, 1943, **65**, 752 (*synth*)
 Welcher, F., *Organic Analytical Reagents*, Van Nostrand, New York, 1947, **2**, 22 (*synth, standard*)
 Jain, B.D., *Curr. Sci.*, 1963, **32**, 66 (*pptn*)
 Tanaka, K., *Hydrocarbon Process.*, 1974, **53**, 114 (*rev*)
 Marco, J.A. *et al*, *Phytochemistry*, 1978, **17**, 1438 (*occur*)
Kirk-Othmer Encycl. Chem. Technol., 3rd Ed., Wiley, N.Y., 1978-1984, **1**, 510 (*rev*)
 Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, AEN000, AEN250, AER250, DOQ300.

4,12,23,27,42-Hexatetracontapentaene-1,18,21,45-tetrayne-3,20,44,?-tetrol **H-10061**
Petroformyne 5

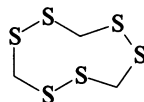
[128646-05-9]
 $C_{46}H_{68}O_4$ M 685.041
 Posn. of one hydroxyl grp. not known. Constit. of the sponge *Petrosia ficiformis*.
 Cimino, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 345.

1,2,3,5,6,8-Hexathionane, 9CI **H-10062**
 [103439-80-1]



$C_3H_6S_6$ M 234.476
 Constit. of the mushroom *Lentinus edodes*.
 Chen, C.C. *et al*, *ACS Symp. Ser.*, 1986, **317**, 176 (*occur*)
 Chen, C.C. *et al*, *J. Agric. Food Chem.*, 1986, **34**, 830 (*occur*)

1,2,4,5,7,8-Hexathionane, 9CI **H-10063**
1,2,4,5,7,8-Hexathiacyclonane
 [81531-38-6]



$C_3H_6S_6$ M 234.476
 Constit. of the seeds of *Parkia speciosa*. Shows antibacterial and antifungal activities. Yellow oil with strong typical odour of *Parkia* beans. Attempted recryst. from dioxan gave cryst. containing only 4S atoms.
 Gmelin, R. *et al*, *Phytochemistry*, 1981, **20**, 2521 (*isol*)
 Holzmann, G. *et al*, *Org. Mass Spectrom.*, 1982, **17**, 165 (*ms*)

6,27-Hexatriacontadien-2-one, 9CI **H-10064**

$H_3C(CH_2)_7CH=CH(CH_2)_{19}CH=CH(CH_2)_3COCH_3$
 $C_{36}H_{68}O$ M 516.933
(Z,Z)-form [133530-19-5]
 Isol. from the snake *Boiga irregularis*.
 Murata, Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 233.

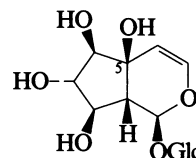
8,27-Hexatriacontadien-2-one, 9CI **H-10065**

$H_3C(CH_2)_7CH=CH(CH_2)_{17}CH=CH(CH_2)_5COCH_3$
 $C_{36}H_{68}O$ M 516.933
(Z,Z)-form [133530-20-8]
 Isol. from the snake *Boiga irregularis*.
 Murata, Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 233 (*isol, pmr, cmr*)

1-Hexatriacontanol **H-10066**
 [82741-64-8]

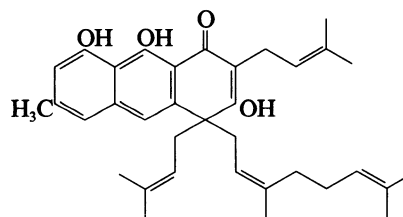
$H_3C(CH_2)_{34}CH_2OH$
 $C_{36}H_{74}O$ M 522.980
 Constit. of *Erythrina stricta* bark. Mp 93.5-94.5°.
 Singh, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 526 (*occur*)
 Huang, H.C. *et al*, *J. Org. Chem.*, 1982, **47**, 4018 (*synth, pmr*)

Holmioside **H-10067**



$C_{14}H_{22}O_{11}$ M 366.321
 Constit. of *Retzia capensis*. Foam. $[\alpha]_D^{20} -154^\circ$ (c, 0.5 in H_2O).
5-Deoxy-5-Deoxyholmioside
 $C_{14}H_{22}O_{10}$ M 350.322
 Constit. of *R. capensis*. $[\alpha]_D^{21} -172^\circ$ (c, 0.4 in H_2O).
 Damtoft, S. *et al*, *Phytochemistry*, 1993, **34**, 239 (*isol, pmr, cmr*)

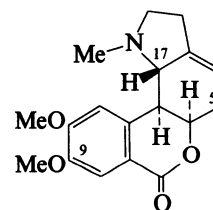
Homoferruginin B **H-10068**
 [120090-79-1]



$C_{35}H_{44}O_4$ M 528.730
 Constit. of *Psorospermum glaberrimum*. Oil.
 Botta, B. *et al*, *Tetrahedron*, 1988, **44**, 7193.

Homolycorine **H-10069**

Updated Entry replacing H-00984
Narcipoetine
 [477-20-3]



$C_{18}H_{21}NO_4$ M 315.368

Alkaloid from *Narcissus poeticus* and from many other spp. in the Amaryllidaceae. Mp 175°. $[\alpha]_D^{25} + 85^\circ$ (95% EtOH).

B,HCl: Mp 285°.

Picrate: Mp 268°.

N-Oxide (α -): [119308-26-8]. **Homolycorine N-oxide**

$C_{18}H_{21}NO_5$ M 331.368

Alkaloid from *Lapiedra martinezii*. Cryst. + H_2O (MeOH aq.). Mp 134-136°. $[\alpha]_D^{25} + 27.4^\circ$ (c, 0.1 in MeOH).

*O*⁹-*De-Me*: [6879-81-8]. **9-Demethylhomolycorine**

$C_{17}H_{19}NO_4$ M 301.341

Alkaloid from *Lycoris radiata*, the bulbs of *N. confusus* and *Crinum defixum* and the leaves of *Leucojum aestivum*. Also isol. from aerial parts of *N. papyraceus* (Amaryllidaceae). Needles (EtOAc or H_2O). Mp 138-140°, Mp 213-214°, Mp 270-272°. $[\alpha]_D^{25} + 96.4^\circ$ (c, 0.28 in $CHCl_3$). Variation in Mp due to polymorphism.

*O*⁹-*De-Me*, *O*⁹-*Ac*: **9-O-Demethyl-9-O-acetylhomolycorine**

$C_{19}H_{21}NO_5$ M 343.379

Alkaloid from whole plants of *Narcissus vasconicus* (Amaryllidaceae). Cryst. Mp 186-188°. $[\alpha]_D^{20} + 70.4^\circ$ (c, 0.54 in EtOH). Erroneously descr. as 8-*O*-Acetylhomolycorine in the lit.

*O*⁹-*De-Me*, *N-oxide* (α -): [128517-02-2]. **9-Demethylhomolycorine α -N-oxide**

$C_{17}H_{19}NO_5$ M 317.341

Alkaloid from aerial parts of *N. papyraceus* (Amaryllidaceae). Cryst. (EtOH). Mp 153-154°. $[\alpha]_D^{23} + 19^\circ$ (c, 0.1 in MeOH).

5 α -*Hydroxy*: [13255-05-5]. **5 α -Hydroxyhomolycorine**

$C_{18}H_{21}NO_5$ M 331.368

Alkaloid from the bulbs of *C. defixum* (Amaryllidaceae). Cryst. ($Me_2CO/MeOH$). Mp 168-170°.

5 α -*Hydroxy*, *10-O-de-Me*: [119309-00-1]. **5 α -Hydroxy-10-O-demethylhomolycorine**

$C_{17}H_{19}NO_5$ M 317.341

Alkaloid from *N. tortifolius* (Amaryllidaceae). Cryst. (MeOH/ CH_2Cl_2). Mp 272-275°. $[\alpha]_D + 98.8^\circ$ (c, 0.52 in EtOH).

Stereoisomer (?): **Penarcine**

$C_{18}H_{21}NO_4$ M 315.368

Isol. from *N. cyclamineus* hybrid "Peeping Tom" (Amaryllidaceae). Mp 171-172°. $[\alpha]_D + 110^\circ$ ($CHCl_3$). Tentative struct., config. unknown.

17-Epimer: [66537-26-6]. **Epihomolycorine**

$C_{18}H_{21}NO_4$ M 315.368

Alkaloid from the bulbs of *Hippeastrum ananuca* (Amaryllidaceae).

Boit, H.-G. *et al*, *Chem. Ber.*, 1955, **88**, 133 (*ir, struct*)

Boit, H.-G. *et al*, *Naturwissenschaften*, 1958, **45**, 262 (*Penarcine*)

Uyeo, S. *et al*, *J. Chem. Soc.*, 1959, 172 (*9-Demethylhomolycorine*)

Kitagawa, T. *et al*, *J. Chem. Soc.*, 1959, 3741 (*struct*)

Hawsworth, W.A. *et al*, *J. Chem. Soc.*, 1965, 1991 (*pmr*)

Pacheco, P. *et al*, *Rev. Latinoam. Quim.*, 1978, **9**, 28; *CA*, **89**, 103746q (*epimer*)

Kobayashi, S. *et al*, *Chem. Pharm. Bull.*, 1985, **33**, 5258 (*9-Demethylhomolycorine*)

Jeffs, P.W. *et al*, *J. Org. Chem.*, 1985, **50**, 1732 (*9-Demethylhomolycorine*, *5 α -Hydroxyhomolycorine*)

Bastida, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1987, **50**, 199 (*9-Demethylhomolycorine*)

Suau, R. *et al*, *Phytochemistry*, 1988, **27**, 3285 (*isol, uv, ir, pmr, cmr, ms, struct, oxide*)

Suau, R. *et al*, *Heterocycles*, 1990, **31**, 517 (*9-Demethylhomolycorine α -N-oxide*)

Bastida, J. *et al*, *Phytochemistry*, 1990, **29**, 2683 (*5-Hydroxy-10-O-demethylhomolycorine*)

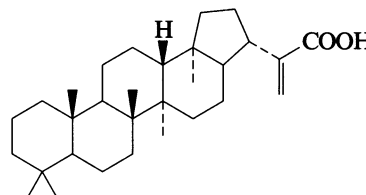
Kihara, M. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1849 (*9-O-Demethylhomolycorine*)

Bastida, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 122 (*9-Demethyl-9-acetylhomolycorine*)

22(30)-Hopen-29-oic acid Tuberosic acid

H-10070

[149747-31-9]



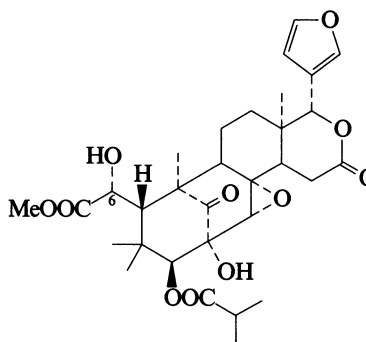
$C_{30}H_{48}O_2$ M 440.708

Constit. of *Nephrolepsis tuberosa*. Cryst. Mp 266-268°.

Dutta, C.P. *et al*, *Phytochemistry*, 1993, **33**, 240 (*isol, pmr, cmr*)

Humilinolide A

H-10071



$C_{31}H_{40}O_{11}$ M 588.650

Constit. of *Swertia humilis*. Cryst. (EtOAc/isopropyl ether). Mp 256°. $[\alpha]_D - 78.5^\circ$ (c, 2.7 in $CHCl_3$).

6-Ac: **Humilinolide B**

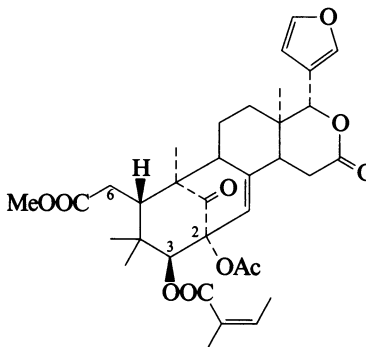
$C_{33}H_{42}O_{12}$ M 630.688

Constit. of *S. humilis*. Cryst. (EtOAc/isopropyl ether). Mp 280-282°. $[\alpha]_D - 68.5^\circ$ (c, 2 in $CHCl_3$).

Segura-Correa, R. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1567 (*isol, pmr, cmr, cryst struct*)

Humilinolide C

H-10072



$C_{34}H_{42}O_{10}$ M 610.700

Constit. of *Swertia humilis*. Cryst. (EtOAc/isopropyl ether). Mp 211-212°. $[\alpha]_D - 55^\circ$ (c, 2 in $CHCl_3$).

6 α -*Acetoxy*, *2,3-dideacyl*, *3-Ac*: **Humilinolide D**

$C_{31}H_{38}O_{11}$ M 586.635

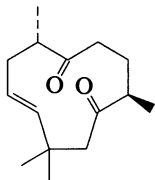
Constit. of *S. humilis*. Cryst. (EtOAc/isopropyl ether).
Mp 263-264°. $[\alpha]_D -76.5^\circ$ (c, 2 in CHCl_3).

Segura-Correa, R. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1567
(*isol*, *pmr*, *cmr*)

9-Humulene-2,6-dione

H-10073

[147914-20-3]



$\text{C}_{15}\text{H}_{24}\text{O}_2$ M 236.353

Constit. of *Lippia integrifolia*. Oil. $[\alpha]_D +201^\circ$ (c, 0.36 in CHCl_3).

Catalán, C.A.N. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 381 (*isol*,
pmr, *cmr*)

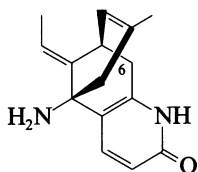
Huperzine A

H-10074

Updated Entry replacing H-01108

Selagine. Fordine

[102518-79-6]



$\text{C}_{15}\text{H}_{18}\text{N}_2\text{O}$ M 242.320

Identity of Selagine with Huperzine A established in 1989.

Alkaloid from *Lycopodium serratum* (= *Huperzia serrata*), *L. selago*, *L. saururus*, *L. erythraeum* and *L. gnidioides* (Lycopodiaceae). Shows very strong anticholinesterase activity and markedly increases efficiency for learning and memory in animals. Currently under clinical investigation in China for treatment of myasthenia gravis and Alzheimer's disease. Mp 230° (224-226°, 214-215°). $[\alpha]_D^{24.5} -150.4^\circ$ (c, 0.498 in MeOH), $[\alpha]_D -99^\circ$.

(*Z*)-Isomer(?): [92138-20-0]. *Isoselagine*

$\text{C}_{15}\text{H}_{18}\text{N}_2\text{O}$ M 242.320

Alkaloid from *L. serratum* var. *longipetalum* (Lycopodiaceae). Potent analgesic in mice. Mp 228-229°. $[\alpha]_D -96^\circ$. Tentative struct. Poss. identical with Huperzine A.

6 β -Hydroxy: [125295-13-8]. *6 β -Hydroxyhuperzine A*

$\text{C}_{15}\text{H}_{18}\text{N}_2\text{O}_2$ M 258.319

Minor alkaloid from *L. selago* (Lycopodiaceae). Cryst. ($\text{Me}_2\text{CO}/\text{MeOH}$). Mp 207-210°. $[\alpha]_D -206^\circ$ (c, 0.37 in MeOH).

[103735-86-0, 120786-18-7, 130791-77-4, 132435-40-6]

Valenta, Z. *et al*, *Tetrahedron Lett.*, 1960, No. **10**, 26 (*isol*, *uv*, *ir*,
pmr)

Yoshimura, H. *et al*, *Tetrahedron Lett.*, 1960, No. **12**, 14 (*Selagine*)

Chen, C.H. *et al*, *T'ai-wan Yao Hsueh Tsa Chih*, 1984, **36**, 1; *CA*,
101, 143940w (*Isoselagine*)

Liu, J.-S. *et al*, *Can. J. Chem.*, 1986, **64**, 837 (*uv*, *ir*, *pmr*, *cmr*,
struct)

Liu, J. *et al*, *Huaxue Xuebao*, 1986, **44**, 1035; *CA*, **107**, 115821p
(*struct*)

Ayer, W.A. *et al*, *Can. J. Chem.*, 1989, **67**, 1538 (*6 β -*
Hydroxyhuperzine A, *Isoselagine*)

Xia, Y. *et al*, *J. Am. Chem. Soc.*, 1989, **111**, 4116 (*synth*)

Qian, L. *et al*, *Tetrahedron Lett.*, 1989, **30**, 2089 (*synth*)

Geib, S.J. *et al*, *Acta Crystallogr., Sect. C*, 1991, **47**, 824 (*cryst*
struct)

Yamada, F. *et al*, *J. Am. Chem. Soc.*, 1991, **113**, 4695 (*synth*)

Kozikowski, A.P. *et al*, *J. Org. Chem.*, 1991, **56**, 4636 (*synth*)

Kozikowski, A.P. *et al*, *Adv. Med.*, 1992, **1**, 175 (*rev*, *synth*, *props*)

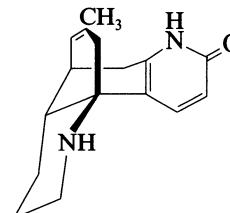
Huperzine B

H-10075

Updated Entry replacing H-01109

8,15-Didehydro-1(18H)-lycodinone, 9CI. Fordimine

[103548-82-9]



$\text{C}_{16}\text{H}_{20}\text{N}_2\text{O}$ M 256.347

Alkaloid from *Lycopodium serratum* (Lycopodiaceae). Also
isol. from *Huperzia serrata* and *Phlegmariurus fordii*.

Exhibits marked anticholinesterase activity. Mp 270-
271°. $[\alpha]_D^{25} -54.2^\circ$ (c, 0.203 in MeOH).

N-Me: N-Methylhuperzine B

$\text{C}_{17}\text{H}_{22}\text{N}_2\text{O}$ M 270.374

Alkaloid from *L. serratum* (*Huperzia serrata*)
(Lycopodiaceae).

Liu, J.-S. *et al*, *Can. J. Chem.*, 1986, **64**, 837 (*uv*, *ir*, *pmr*, *cmr*,
struct)

Liu, J. *et al*, *Huaxue Xuebao*, 1986, **44**, 1035; *CA*, **107**, 115821p
(*struct*)

Li, J. *et al*, *Zhongcaoyao*, 1987, **18**, 50; *CA*, **107**, 93545x (*deriv*)

Chu, B.M. *et al*, *Yaoxue Xuebao*, 1988, **23**, 115; *CA*, **109**, 70347.

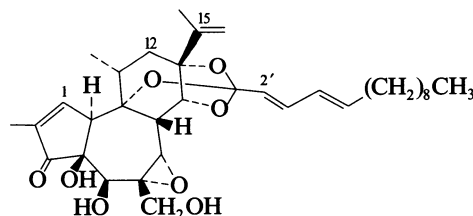
Huratoxin

H-10076

Updated Entry replacing H-01111

Hippomane factor M₁

[33465-16-6]



$\text{C}_{34}\text{H}_{48}\text{O}_8$ M 584.748

Isol. from *Hura crepitans*. Also found in *Hippomane*
mancinella, *Pimelea* sp., *Wikstroemia monticola* and *W.*
retusa. Glassy resin. $[\alpha]_D^{28} +55.1^\circ$ (c, 2.7 in CHCl_3).

▷ Toxic.

12 β -Acetoxy: [73061-92-4]. *Subtoxin A. 12-*

Acetoxyhuratoxin

$\text{C}_{36}\text{H}_{50}\text{O}_{10}$ M 642.785

Isol. from *Stellera chamaejasme* and *W. retusa*. Oil. $[\alpha]_D$
 $+39^\circ$, $[\alpha]_D^{25} +11.3^\circ$ (c, 0.85 in CHCl_3).

12 β -Acetoxy, 14'-Methyl:

$\text{C}_{37}\text{H}_{52}\text{O}_{10}$ M 656.812

Constit. of *W. retusa*. Glassy oil. $[\alpha]_D^{26} +7.9^\circ$ (CHCl_3).
Alkyl side chain has one extra carbon.

5,20-Di-Ac: [91851-65-9]. *5,20-Diacetylhuratoxin*

$\text{C}_{38}\text{H}_{52}\text{O}_{10}$ M 668.823

Constit. of *H. mancinella*.

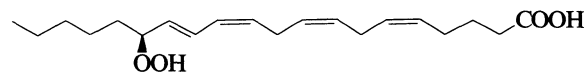
- 20-Hexadecanoyl: [57672-64-7]. 20-Hexadecanoylthuratoin
 $C_{50}H_{78}O_9$ M 823.161
 Constit. of *H. mancinella*.
- 20-Octadecanoyl: [57672-65-8]. 20-Octadecanoylthuratoin
 $C_{52}H_{82}O_9$ M 851.214
 Constit. of *H. mancinella*.
- 20-Eicosanoyl: [57672-66-9]. 20-Eicosanoylthuratoin
 $C_{54}H_{86}O_9$ M 879.268
 Constit. of *H. mancinella*.
- 20-Docosanoyl: [57672-67-0]. 20-Docosanoylthuratoin
 $C_{56}H_{90}O_9$ M 907.322
 Constit. of *H. mancinella*.
- 20-Tetracosanoyl: [57672-68-1]. 20-Tetracosanoylthuratoin
 $C_{58}H_{94}O_9$ M 935.375
 Constit. of *H. mancinella*.
- 20-Hexacosanoyl: [57672-69-2]. 20-Hexacosanoylthuratoin
 $C_{60}H_{98}O_9$ M 963.429
 Constit. of *H. mancinella*.
- 1,2,2',3',4',5'-Hexahydro: [92260-57-6].
 $C_{34}H_{54}O_8$ M 590.796
 Constit. of *H. mancinella*.
- 15,16,2',3',4',5'-Hexahydro: [36136-24-0].
 $C_{34}H_{54}O_8$ M 590.796
 Constit. of *H. mancinella*.
- 3-Alcohol, 1,2,15,16,2',3',4',5'-octahydro: [91851-68-2].
 $C_{34}H_{58}O_8$ M 594.827
 Constit. of *H. mancinella*.
- 5-Deoxy, 6,7-deepoxy, 6,7-didehydro: [91851-46-6].
 $C_{34}H_{48}O_6$ M 552.750
 Constit. of *H. mancinella*.
- 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-pentadecanoyl:
 [91851-51-3].
 $C_{49}H_{76}O_7$ M 777.135
 Constit. of *H. mancinella*.
- 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-hexadecanoyl:
 [91851-53-5].
 $C_{50}H_{78}O_7$ M 791.162
 Constit. of *H. mancinella*.
- 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-octadecanoyl:
 [91851-55-7].
 $C_{52}H_{82}O_7$ M 819.216
 Constit. of *H. mancinella*.
- 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-eicosanoyl: [91851-57-9].
 $C_{54}H_{86}O_7$ M 847.269
 Constit. of *H. mancinella*.
- 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-docosanoyl:
 [91851-59-1].
 $C_{56}H_{90}O_7$ M 875.323
 Constit. of *H. mancinella*.
- 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-tetracosanoyl:
 [91851-61-5].
 $C_{58}H_{94}O_7$ M 903.376
 Constit. of *H. mancinella*.
- 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-hexacosanoyl:
 [91851-63-7].
 $C_{60}H_{98}O_7$ M 931.430
 Constit. of *H. mancinella*.
- 6,7-Deepoxy, 6-hydroxy, 7-chloro, 2',3',4',5'-tetrahydro:
 [91851-48-8].
 $C_{34}H_{53}ClO_8$ M 625.241
 Constit. of *H. mancinella*.

Sakata, K. *et al*, *Agric. Biol. Chem.*, 1971, **35**, 1084, 2113 (*isol, cryst struct*)
 Freeman, P.W. *et al*, *Aust. J. Chem.*, 1979, **32**, 2495 (*Subtoxin A*)
 Niwa, M. *et al*, *Chem. Pharm. Bull.*, 1982, **30**, 4518 (*Subtoxin A*)
 Jolad, S.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1983, **46**, 675 (*cmr*)
 Adolf, W. *et al*, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 482 (*isol, derivs*)
 Yaga, S. *et al*, *Phytochemistry*, 1993, **32**, 141 (*isol, pmr, cmr*)

15-Hydroperoxy-5,8,11,13- eicosatetraenoic acid

H-10077

Updated Entry replacing H-01158
 15-HPETE



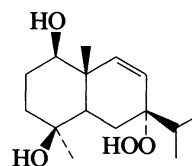
- $C_{20}H_{32}O_4$ M 336.470
 (15*S*,5*Z*,8*Z*,11*Z*,13*E*)-form [70981-96-3]
 Metab. of arachidonic acid. $[\alpha]_D -4.6^\circ$ (MeOH).
Me ester: [77026-90-5].
 $C_{21}H_{34}O_4$ M 350.497
 $[\alpha]_D -3.5^\circ$ (MeOH).
 (15*RS*,5*Z*,8*Z*,11*Z*,13*E*)-form [73804-66-7]
 Obt. from arachidonic acid by autoxidn. or
 photooxygenation.

Baldwin, J.E. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1979, 115 (*synth*)

Porter, N.A. *et al*, *J. Org. Chem.*, 1979, **44**, 3177 (*synth, ms*)
 Corey, E.J. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 1433 (*synth*)
 Boeynaems, J.M. *et al*, *Prostaglandins*, 1980, **19**, 87 (*synth*)
 Terao, J. *et al*, *Agric. Biol. Chem.*, 1981, **45**, 587 (*synth*)
 Porter, N.A. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 6447 (*synth*)
 Dussault, P. *et al*, *J. Org. Chem.*, 1992, **57**, 1952 (*synth*)

7-Hydroperoxy-8-eudesmene-1,4-diol

H-10078



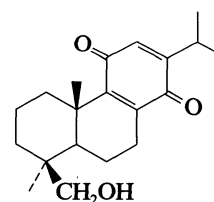
- $C_{15}H_{26}O_4$ M 270.368
 (1*β*,4*β*,7*α*)-form
 4-Cinnamoyl:
 $C_{24}H_{32}O_5$ M 400.514
 Constit. of *Brintonia discoidea*. Powder.
 Lu, T. *et al*, *Phytochemistry*, 1993, **34**, 737 (*isol, pmr, cmr*)

19-Hydroxy-8,12-abietadiene-11,14-dione

H-10079

Triptoquinonol

[142937-48-2]



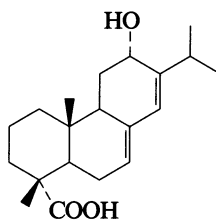
- $C_{20}H_{28}O_3$ M 316.439
 Constit. of *Tripterygium regelii*. Golden needles. Mp 165-166°. $[\alpha]_D^{15} -6.92^\circ$ (c, 0.37 in $CHCl_3$).
 19-Aldehyde: [142937-47-1]. 11,14-Dioxo-8,12-abietadien-19-*al. Triptoquinonal*
 $C_{20}H_{26}O_3$ M 314.424
 Constit. of *T. regelii*. Golden needles. Mp 127-128°. $[\alpha]_D^{15} -1.82^\circ$ (c, 0.44 in $CHCl_3$).
 19-Carboxylic acid: [96160-44-0]. 11,14-Dioxo-8,12-abietadien-19-*oic acid. Triptoquinonoic acid B*
 $C_{20}H_{26}O_4$ M 330.423

Constit. of *T. regelii*. Golden prisms. Mp 212-213°. $[\alpha]_D^{15} + 75.18^\circ$ (c, 1.43 in CHCl_3).

Shen, J.H. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 113 (*isol*, *pmr*, *cmr*)

12-Hydroxy-7,13-abietadien-18-oic acid H-10080

12-Hydroxyabietic acid



$\text{C}_{20}\text{H}_{30}\text{O}_3$ M 318.455

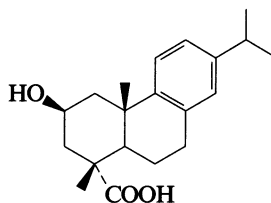
12 α -form [3484-61-5]

Constit. of *Pinus sylvestris*, *P. massoniana* and an *Abies* sp.

Barrero, A.F. *et al*, *Phytochemistry*, 1990, **29**, 593 (*isol*, *pmr*)

Cheung, A.T. *et al*, *Tetrahedron*, 1993, **49**, 7903 (*isol*, *pmr*, *cmr*)

2-Hydroxy-8,11,13-abietatrien-18-oic acid H-10081



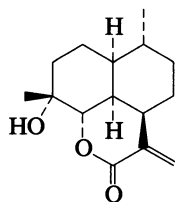
$\text{C}_{20}\text{H}_{28}\text{O}_3$ M 316.439

2 β -form [79777-86-9]

Constit. of *Pinus massoniana*.

Cheung, H.T.A. *et al*, *Tetrahedron*, 1993, **49**, 7903 (*isol*, *pmr*, *cmr*)

4-Hydroxy-11(13)-amorphen-12,5-olide H-10082



$\text{C}_{15}\text{H}_{22}\text{O}_3$ M 250.337

(4 α ,5 α)-form [92691-97-9] Artemislactone

Constit. of *Artemisia annua*.

Zhu, D. *et al*, *Huaxue Xuebao*, 1984, **42**, 937 (*isol*, *pmr*, *synth*)

Zhou, W.S., *Pure Appl. Chem.*, 1986, **58**, 817 (*synth*)

11-Hydroxyandrosta-1,4-diene-3,17-dione H-10083

1-Dehydro-11-hydroxyandrostenedione

$\text{C}_{19}\text{H}_{24}\text{O}_3$ M 300.397

11 α -form [7801-18-5] Kurchinin

Obt. from the incubation of 11 α -hydroxypregn-4-ene-3,20-dione with *Fusarium javanicum* or 5 α -androstane-3,17-dione with *Acromyrmex* fungus and constit. of *Holarrhena pubescens*. Mp 160-162°, Mp 212-214° (190-192°). $[\alpha]_D + 86.5^\circ$ (c, 1.01 in CHCl_3).

Ac:

$\text{C}_{21}\text{H}_{26}\text{O}_4$ M 342.434

Mp 243-245°. $[\alpha]_D^{23} + 101^\circ$.

11 β -form [898-84-0]

Obt. from the incubation of 11 β -hydroxyandrost-4-ene-3,17-dione with *Corynebacterium simplex* or *Arthrobacter simplex*. Cryst. (Me_2CO). Mp 186.5-189°.

17-Oxime:

$\text{C}_{19}\text{H}_{28}\text{NO}_3$ M 315.411

Mp 168-169°.

[76976-49-3]

U.S. Pat., 2 902 498, (1959); *CA*, **54**, 5756 (*synth*, *uv*, *ir*)

Charney, W. *et al*, *Tetrahedron*, 1962, **18**, 591 (*synth*, 11 β -form)

Singh, K. *et al*, *Steroids*, 1963, **2**, 513 (*synth*, *uv*, *ir*, 11 β -form)

Demarco, P.V. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 5480 (*pmr*, 11 β -form)

Jones, E.R.H. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1975, 1552

(*synth*, *pmr*, 11 α -form)

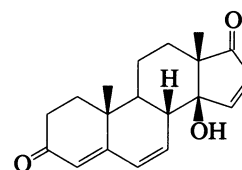
Simons, S.S. *et al*, *Steroids*, 1981, **37**, 281 (*synth*, *ir*, *ms*, 11 β -form)

Holland, H.L. *et al*, *Can. J. Chem.*, 1985, **63**, 1127 (*synth*, *cmr*, 11 α -form)

Jasiczak, J. *et al*, *Tetrahedron Lett.*, 1985, **26**, 5221 (*synth*, *ir*, *pmr*, 11 β -form)

Siddiqui, B.S. *et al*, *Phytochemistry*, 1993, **33**, 925 (*Kurchinin*)

14-Hydroxyandrosta-4,6,15-triene-3,17-dione H-10084



$\text{C}_{19}\text{H}_{22}\text{O}_3$ M 298.381

14 β -form

Disformone

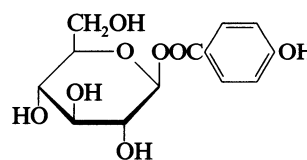
Constit. of *Dischida formosana*. Cryst. ($\text{CHCl}_3/\text{MeOH}$).

Mp 238-240°. $[\alpha]_D^{20} + 258^\circ$ (c, 1 in CHCl_3).

Chen, Z.-S. *et al*, *Phytochemistry*, 1993, **34**, 783 (*isol*, *pmr*, *cryst struct*)

1-(4-Hydroxybenzoyl)glucose H-10085

Glucopyranose 1-(4-hydroxybenzoate), 8CI



$\text{C}_{13}\text{H}_{16}\text{O}_8$ M 300.265

β -D-form [25545-07-7]

Constit. of stems and flowers of *Caesalpinia japonica*.

Also isol. from *Catalpa bignonioides* and *Antirrhinum majus*. Clusters of needles (H_2O). Mp 232°.

Fischer, E. *et al*, *Ber.*, 1919, **52**, 829 (*synth*)

Birkofer, L. *et al*, *Z. Naturforsch., B*, 1961, **16**, 249 (*isol*)

Birkofer, L. *et al*, *Justus Liebigs Ann. Chem.*, 1969, **725**, 196 (*pmr*)

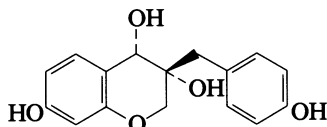
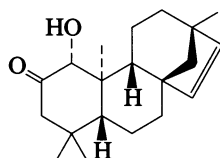
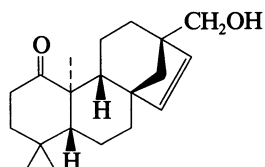
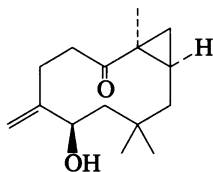
Klick, S. *et al*, *J. Chromatogr.*, 1988, **441**, 335 (*hplc*)

Tabata, M. *et al*, *Phytochemistry*, 1988, **27**, 809.

3-(4-Hydroxybenzyl)-3,4,7-chromantriol **H-10086**

3,4-Dihydro-3-[(4-hydroxyphenyl)methyl]-2H-1-benzopyran-3,4,7-triol, 9CI

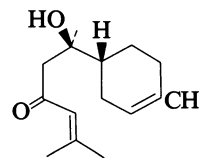
[110064-52-3]

C₁₆H₁₆O₅ M 288.299**(3R,4S)-form** [111254-20-7] **3'-Deoxysappanol**Constit. of the heartwood of *Caesalpinia sappo*. Needles (Me₂CO/hexane). Mp 182-183°. [α]_D²⁵ +54.5° (c, 0.77 in MeOH).**4-Me ether:** [112408-68-1]. **3-(4-Hydroxybenzyl)-4-methoxy-3,7-chromandiols. 3'-Deoxy-4-O-methylsappanol**C₁₇H₁₈O₅ M 302.326Constit. of *C. japonica*. Needles. Mp 100-101°. [α]_D²⁵ +40.7° (c, 0.37 in MeOH).**4',7-Di-Me ether:** [111321-27-8].Needles. Mp 154-156°. [α]_D²⁵ +31° (c, 0.29 in CHCl₃).Namikoshi, M. *et al*, *Chem. Pharm. Bull.*, 1987, **35**, 2761, 3568 (pmr, cmr, abs config)Namikoshi, M. *et al*, *Phytochemistry*, 1987, **26**, 1831 (isol)**1-Hydroxy-15-beyeren-2-one****H-10087**C₂₀H₃₀O₂ M 302.456**(ent-1β)-form** [39036-31-2]Constit. of *Erythroxyllum australe*. Cryst. (MeOH). Mp 106-107°. [α]_D +34° (CH₂Cl₂).Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 937 (isol)**17-Hydroxy-15-beyeren-1-one****H-10088**C₂₀H₃₀O₂ M 302.456**ent-form** [150036-75-2]Constit. of *Erythroxyllum australe*. Cryst. (hexane). Mp 120-121°. [α]_D -25° (CH₂Cl₂).Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 937 (isol, pmr, cmr)**2-Hydroxy-3(15)-bicyclohumulen-6-one****H-10089**C₁₅H₂₄O₂ M 236.353Constit. of *Jubula japonica*. Unstable oil. [α]_D²¹ +163° (c, 0.08 in CHCl₃).Toyota, M. *et al*, *Phytochemistry*, 1993, **34**, 1135 (isol, pmr, cmr)**7-Hydroxy-2,10-bisaboladien-9-one****H-10090**

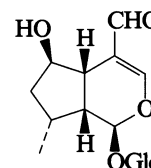
Updated Entry replacing H-01307

α-Bisabololone. α-Bisabolone

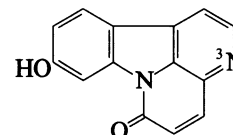
[62697-50-1]

C₁₅H₂₄O₂ M 236.353Constit. of *Chrysanthemum flosculosum*. Oil. [α]_D -20.8° (c, 1 in CHCl₃).

[38043-98-0]

Bohlmann, F. *et al*, *Tetrahedron Lett.*, 1972, 1295 (isol, struct)Vig, O.P. *et al*, *Indian J. Chem., Sect. B*, 1976, **14**, 929 (synth)Malanco, F.L. *et al*, *Synth. Commun.*, 1976, **6**, 515 (synth)Kergomard, A. *et al*, *Tetrahedron*, 1977, **33**, 2215 (synth, abs config)**6-Hydroxyboschnalocide****H-10091**C₁₆H₂₄O₉ M 360.360**6β-form** [135626-18-5]Constit. of *Penstemon virens* and *Orthocarpus purpurascens*. Solid. Mp 100-105°. [α]_D²⁴ -79.7° (c, 3.1 in H₂O).**6-(8-Hydroxy-2,6-dimethyl-2E,6E-octadienyl):**C₂₆H₃₈O₁₁ M 526.580Constit. of *P.* spp. Cryst. Mp 117-119°. [α]_D²⁵ -94° (c, 0.9 in MeOH).**6-(2,6-Dimethyl-8-oxo-2E,6E-octadienyl):**C₂₆H₃₆O₁₁ M 524.564Constit. of *P.* spp.Boros, C.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 506 (isol, uv, pmr, cmr)Abdel-Kader, M.S. *et al*, *Phytochemistry*, 1993, **34**, 1367 (isol, pmr, cmr)**9-Hydroxycanthin-6-one****H-10092**

Updated Entry replacing H-01358

9-Hydroxy-6H-indolo[3,2,1-de][1,5]naphthyridin-6-one, 9CI
[138544-91-9]C₁₄H₈N₂O₂ M 236.229

Alkaloid from the wood of *Simaba multiflora*, from the roots of *Eurycoma longifolia* and from stems of *Picrolemma granatensis* (Simaroubaceae). Yellow needles. Mp 288-293° (285-286°). The nat. prod. from *S. multiflora* has been reassigned this struct. by Kardono, *et al.*

N^3 -Oxide: [137739-75-4]. **9-Hydroxycanthin-6-one N^3 -oxide**
 $C_{14}H_8N_2O_3$ M 252.229

Alkaloid from the roots of *E. longifolia* (Simaroubaceae). Red needles. Mp 248-250° dec.

Me ether: [74991-91-6]. **9-Methoxycanthin-6-one**. **9-Methoxy-6H-indolo[3,2,1-de][1,5]naphthyridin-6-one**, *9Cl*. **8-Methoxycanthin-6-one (incorr.)**
 $C_{15}H_{10}N_2O_2$ M 250.256

Alkaloid from the trunk bark of *Simaba cuspidata*, the stem bark of *S. multiflora* and stems and stem bark of *P. granatensis* (Simaroubaceae). Yellow cryst. (EtOH). Mp 178-180°.

Me ether, N^3 -oxide: [137739-74-3]. **9-Methoxycanthin-6-one N^3 -oxide**

$C_{15}H_{10}N_2O_3$ M 266.256

Alkaloid from the roots of *E. longifolia* and stems of *P. granatensis* (Simaroubaceae). Reddish-yellow powder. Mp 238-240° (193° dec.).

Giesbrecht, A.M. *et al*, *Phytochemistry*, 1980, **19**, 313 (*isol, uv, ir, pmr, ms, struct*)

Polonsky, J. *et al*, *Tetrahedron Lett.*, 1982, **23**, 869 (*isol, uv, ir, pmr, struct*)

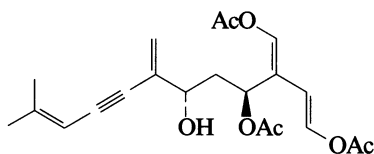
Kardono, L.B.S. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 1360 (*isol, uv, ir, ms, pmr, cmr*)

Rodrigues Fo, E. *et al*, *Phytochemistry*, 1992, **31**, 2499 (*9-Methoxycanthin-6-one 3-N-oxide*)

6-Hydroxy- $\Delta^{7,(14)}$ -caulerpenyne

H-10093

[149183-81-3]



$C_{21}H_{26}O_7$ M 390.432

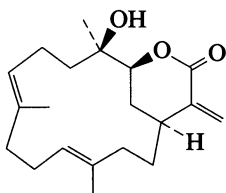
Constit. of *Caulerpa taxifolia*. Oil. $[\alpha]_D^{20} -53.7^\circ$ (c, 0.095 in EtOH).

[149183-83-5]

Guerriero, A. *et al*, *Helv. Chim. Acta*, 1993, **76**, 855 (*isol, pmr, cmr*)

4-Hydroxy-7,11,15(17)-cembratrien-16,3-olide

H-10094



$C_{20}H_{30}O_3$ M 318.455

(**1S,3S,4R,7E,11E**)-form [148149-82-0] **14-Deoxycrassin**

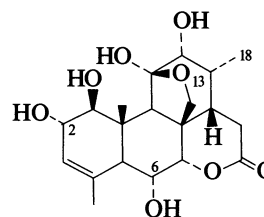
Constit. of *Pseudoplexaura porosa*. Oil. $[\alpha]_D^{26} +29.6^\circ$ (c, 0.24 in $CHCl_3$).

Rodríguez, A.D. *et al*, *Experientia*, 1993, **49**, 179 (*isol, pmr, cmr*)

6-Hydroxychaparrin

H-10095

Updated Entry replacing H-01385



$C_{20}H_{28}O_8$ M 396.436

6 α -form

6-Tigloyl: 6 α -Tigloyloxychaparrin

$C_{25}H_{34}O_9$ M 478.538

Isol. from *Simaba multiflora* and *Quassia multiflora*. Cryst. (EtOH/MeOH). Mp 280-286°.

2-Ketone: [69343-48-2]. 6-Hydroxychaparrinone

$C_{20}H_{26}O_8$ M 394.421

Constit. of *Q. multiflora*. Needles (MeOH). Mp 233-235°.

2-Ketone, 6-tigloyl: [69423-70-7].

$C_{25}H_{32}O_9$ M 476.522

Constit. of *Q. multiflora*.

13 β ,18-Didehydro, 2-ketone: [87733-57-1]. Shinjulactone E

$C_{20}H_{24}O_8$ M 392.405

Constit. of bark of *Ailanthus altissima*. Amorph. solid.

Polonsky, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1980, **43**, 503 (*isol, pmr*)

Polonsky, J. *et al*, *Tetrahedron Lett.*, 1982, **23**, 869

(*Tigloyloxychaparrin*)

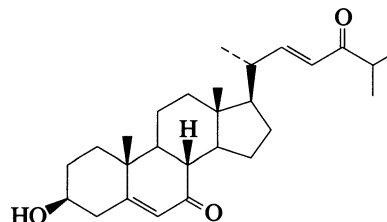
Furuno, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1984, **57**, 2484

(*Shinjulactone E*)

Carter, C.A.G. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 130 (*isol, pmr, cmr*)

3-Hydroxycholesta-5,22-diene-7,24-dione

H-10096



$C_{27}H_{40}O_3$ M 412.611

(**3 β ,22E**)-form [147641-71-2]

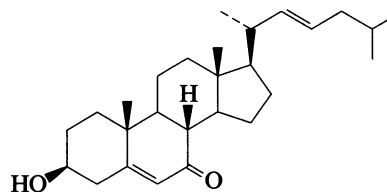
Constit. of *Stelodoryx chlorophylla*. $[\alpha]_D -40^\circ$ (c, 0.2 in $CHCl_3$).

De Riccardis, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 282 (*isol, pmr, ms*)

3-Hydroxycholesta-5,22-dien-7-one

H-10097

Updated Entry replacing H-01386

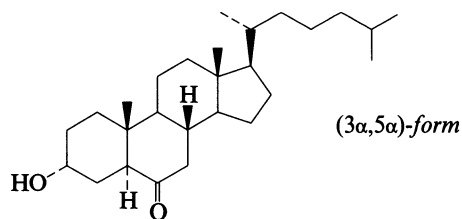


$C_{27}H_{42}O_2$ M 398.628

(**3 β ,22E**)-form [118964-36-6]

Constit. of *Callibbepharis lanceolata*, *Cliona capiosa*, *Laurencia pinnatifida* and *Lithophyllum incrustans*.

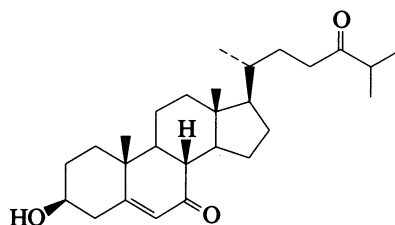
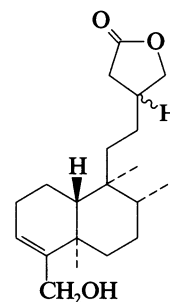
Quiñoa, E. *et al*, *An. Quim., Ser. C*, 1988, **84**, 267 (*isol, pmr*)
 Notaro, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1588 (*isol, pmr, ms*)

3-Hydroxycholestan-6-one, 9Cl**H-10098**C₂₇H₄₆O₂ M 402.659**(3 α ,5 α)-form** [6579-82-4]Cryst. (Et₂O/MeOH). Mp 160°.

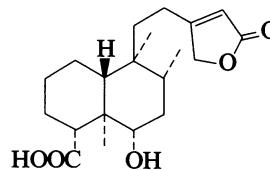
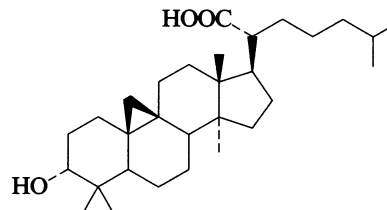
Ac: [21513-83-7].

C₂₉H₄₈O₃ M 444.696Cryst. (Et₂O/MeOH). Mp 107-108°.*Me ether*: [21513-82-6]. *3-Methoxycholestan-6-one*C₂₈H₄₈O₂ M 416.686Cryst. (MeOH). Mp 111°. [α]_D -4° (c, 1.2 in CHCl₃).**(3 α ,5 β)-form** [21513-78-0]Cryst. (petrol). Mp 85-86°. [α]_D -43° (c, 1.4 in CHCl₃).Ac: Cryst. (MeOH). Mp 142-143°. [α]_D -21°.*Me ether*: [21513-79-1].Cryst. (MeOH). Mp 85-86°. [α]_D -32° (c, 0.55 in CHCl₃).**(3 β ,5 α)-form** [1175-06-0]Trace constit. of *Mandevilla pentlandia* roots. Cryst. (MeOH). Mp 142-143°. [α]_D²⁴ -5.1° (CHCl₃).

Ac: [1256-83-3].

Cryst. (MeOH). Mp 127-128°. [α]_D²⁴ -15.5° (CHCl₃).*Me ether*: [5837-39-8].Cryst. (MeOH). Mp 92°. [α]_D¹⁹ -11.2°.**(3 β ,5 β)-form** [5837-32-1]Cryst. Mp 93-95°. [α]_D -29° (c, 1.2 in CHCl₃).Ac: Cryst. (Et₂O/MeOH). Mp 130-132°. [α]_D -27° (c, 0.6 in CHCl₃).*Me ether*: [5837-31-0].Cryst. (MeOH). Mp 110-111°. [α]_D -42° (c, 0.4 in CHCl₃).Dobson, R.M. *et al*, *J. Org. Chem.*, 1948, **13**, 424 (*synth*)Herbest, H.B. *et al*, *J. Chem. Soc.*, 1957, 4765 (*synth*)Jones, D.N. *et al*, *J. Chem. Soc. C*, 1966, 846; 1969, 1208 (*synth*)Cabrera, G. *et al*, *Phytochemistry*, 1991, **30**, 1239 (*isol*)**3-Hydroxycholest-5-ene-7,24-dione****H-10099**C₂₇H₄₂O₃ M 414.627**3 β -form** [147641-72-3]Constit. of *Stelodoryx chlorophylla*. [α]_D -27.5° (c, 0.1 in CHCl₃).De Riccardis, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 282 (*isol, pmr, ms*)**18-Hydroxy-3-cleroden-15,16-olide****H-10100**C₂₀H₃₂O₃ M 320.471**(ent-13 ξ)-form**Constit. of *Baccharis trinervis*. Oil.Kuroyanagi, M. *et al*, *Phytochemistry*, 1993, **34**, 1377 (*isol, pmr, cmr*)**6-Hydroxy-13-cleroden-15,16-olid-18-oic acid****H-10101**

Updated Entry replacing H-01436

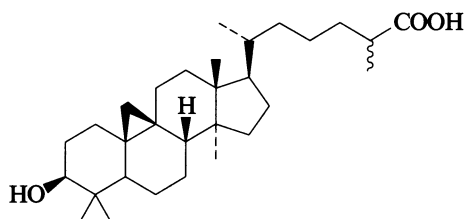
C₂₀H₃₀O₅ M 350.454**(ent-4 α H,6 β)-form***Me ester*: *Deacetylajugarin IV*C₂₁H₃₂O₅ M 364.481Constit. of *Ajuga ciliata* var. *villosior*. Cryst. (EtOAc).Mp 206-207°. [α]_D²² -16° (c, 0.1 in CHCl₃).*Me ester, Ac*: [82225-47-6]. *Ajugarin IV*C₂₃H₃₄O₆ M 406.518Constit. of *A. remota*. Shows insecticidal and antifeedant activity. Cryst. Mp 119-120.5°. [α]_D -57.5° (c, 0.06 in CHCl₃).Kubo, I. *et al*, *J. Chem. Soc., Chem. Commun.*, 1982, 618 (*isol*)Kende, A.S. *et al*, *Tetrahedron Lett.*, 1982, **23**, 1751 (*synth*)Shimomura, H. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 988 (*Deacetylajugarin IV*)**3-Hydroxycycloartan-21-oic acid****H-10102**C₃₀H₅₀O₃ M 458.723**3 α -form**

Ac: [145671-15-4].

C₃₂H₅₂O₄ M 500.760Constit. of *Notholaena candida*.*3-Ketone*: [145644-02-6]. *3-Oxocycloartan-21-oic acid*C₃₀H₄₈O₃ M 456.707Constit. of *N. candida*.Arriaga-Giner, F.J. *et al*, *Z. Naturforsch., C*, 1992, **47**, 508 (*isol, pmr, cmr*)

3-Hydroxycycloartan-26-oic acid

H-10103

C₃₀H₅₀O₃ M 458.723

(3β,25ξ)-form

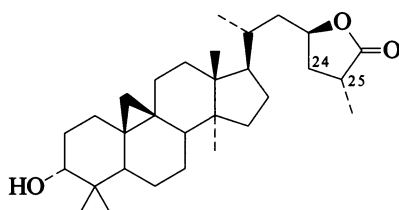
3-Me ether: 3-Methoxycycloartan-26-oic acid

C₃₁H₅₂O₃ M 472.750Constit. of *Pseudotsuga japonica*. Cryst. Mp 168-169.5°. [α]_D²³ +33.2° (c, 0.34 in CHCl₃).Tanaka, R. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1753 (isol, pmr, cmr)

3-Hydroxycycloartan-26,23-olide

H-10104

Updated Entry replacing H-01445

C₃₀H₄₈O₃ M 456.707

(3α,23R,25R)-form [140366-14-9]

Constit. of *Abies marocana*. Cryst. (Et₂O). Mp 165-167°. [α]_D +27.2° (c, 1.46 in CHCl₃).

24,25-Didehydro: [140709-02-0]. 3-Hydroxycycloart-24-en-26,23-olide

C₃₀H₄₆O₃ M 454.692Constit. of *A. marocana*. Cryst. (Et₂O). Mp 179-180°. [α]_D +27.8° (c, 1 in CHCl₃).

3-Me ether: [147852-63-9]. 3-Methoxycycloartan-26,23-olide

C₃₁H₅₀O₃ M 470.734Constit. of *A. pinsapo*. Cryst. (MeOH). Mp 170-171°. [α]_D +35.2° (c, 1.06 in CHCl₃).

[140388-67-6]

Barrero, A.F. et al, *Phytochemistry*, 1992, **31**, 615; 1993, **32**, 1261 (isol, pmr, cmr)

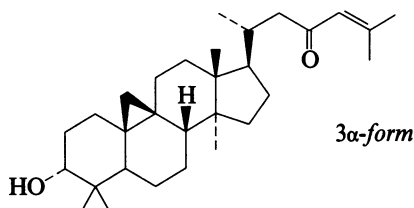
3-Hydroxycycloart-24-en-23-one

H-10105

Updated Entry replacing C-02246

3-Hydroxy-9,19-cyclolanost-24-en-23-one

[141946-48-7]

C₃₀H₄₈O₂ M 440.708Cryst. Mp 133-135°. [α]_D²⁵ +20.5° (c, 4.2 in CHCl₃).

3α-form

Constit. of *Monocyclanthus vignei*. Cryst. (Me₂CO). Mp 111-113°. [α]_D²¹ +15° (c, 0.4 in CHCl₃).

3β-form

Constit. of *M. vignei*. Cryst. (Me₂CO). Mp 130°. [α]_D²¹ +18° (c, 0.9 in CHCl₃).

3-Ketone: Cycloart-24-ene-3,23-dione, 9,19-Cyclolanost-24-ene-3,23-dione

C₃₀H₄₆O₂ M 438.692Constit. of *M. vignei* and *Gardenia* spp. Cryst. (CHCl₃/MeOH). Mp 137-138°. [α]_D²¹ +6° (c, 0.85 in CHCl₃).

3-Ketone, 23-alcohol(1): 23-Hydroxycycloart-24-en-3-one

C₃₀H₄₈O₂ M 440.708Constit. of *Guarea trichiloides*. Cryst. Mp 154-156°. [α]_D +27.0° (c, 1.01 in CHCl₃).

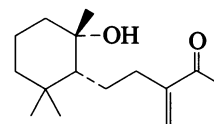
3-Ketone, 23-alcohol(2):

C₃₀H₄₈O₂ M 440.708Constit. of *G. trichiloides*. Cryst. Mp 134-136°. [α]_D²⁵ +52.7° (c, 1.27 in CHCl₃). 23-Epimer of the isomer above.Davies, N.W. et al, *Phytochemistry*, 1992, **31**, 159 (isol, pmr, ms)Achenbach, H. et al, *Phytochemistry*, 1992, **31**, 4263 (isol, pmr, cmr)Furlan, M. et al, *Phytochemistry*, 1993, **32**, 1519 (isol, pmr, cmr)

7-Hydroxy-6,11-cyclofarnes-3(15)-en-2-one

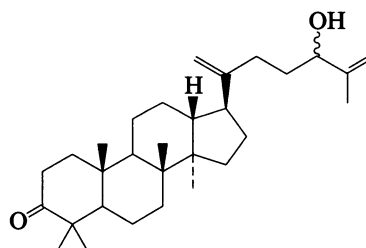
H-10106

[145631-62-5]

C₁₅H₂₆O₂ M 238.369Constit. of *Premna oligotricha*. Oil. [α]_D -17° (c, 0.1 in CHCl₃).Habtemariam, S. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 140 (isol, pmr, cmr)

24-Hydroxydammara-20,25-dien-3-one

H-10107

C₃₀H₄₈O₂ M 440.708

24ξ-form [148808-22-4]

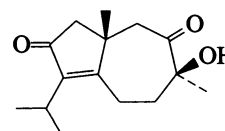
Constit. of *Chisocheton macrophyllus*. Cryst. (hexane). Mp 154-155°. [α]_D²⁰ +82.6° (c, 0.26 in CHCl₃).

[148808-23-5]

Inada, A. et al, *Chem. Pharm. Bull.*, 1993, **41**, 617 (isol, pmr, cmr)

8-Hydroxy-4-daucene-3,9-dione

H-10108

C₁₅H₂₂O₃ M 250.337

8-β-form [103701-26-4]

Webiol

Cryst. (Me₂CO/pet. ether). Mp 64-66°.

8-Angeloyl: [103701-27-5].

C₂₀H₂₈O₄ M 332.439

Constit. of *Ferula linkii*. Gum.

8-(2,3-Epoxy-3-methylbutanoyl): [103701-28-6].

C₂₀H₂₈O₅ M 348.438

Constit. of *F. linkii*. Cryst. Mp 82-84°.

Díaz, J.G. *et al*, *Phytochemistry*, 1986, **25**, 1161 (*isol*, *pmr*, *cmr*, *cryst struct*)

10-Hydroxy-8-decenoic acid**H-10109**

[79728-54-4]

HOCH₂CH=CH(CH₂)₆COOHC₁₀H₁₈O₃ M 186.250*(E)*-form [106541-97-3]

Isol. from the injured fruit bodies of *Cantharellus tubaeformis*.

Me ester: [67803-47-8].

C₁₁H₂₀O₃ M 200.277

Bp_{0.04} 115°.

Ac, *Me ester*: [67803-46-7].

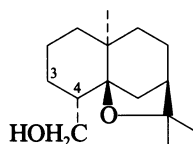
Bp_{0.13} 115°.

[69152-90-5]

Ranganathan, D. *et al*, *Tetrahedron*, 1980, **36**, 1869 (*synth*)

Baker, S.R. *et al*, *Tetrahedron Lett.*, 1983, **24**, 4469 (*synth*)

Pang, Z. *et al*, *Acta Chem. Scand.*, 1992, **46**, 301 (*isol*, *synth*, *pmr*)

15-Hydroxydihydro-β-agarofuran**H-10110**

4α-form

C₁₅H₂₆O₂ M 238.3694α-form [105013-72-7] *Baimuxinol*

Constit. of *Aquilaria sinensis*. Cryst. Mp 128-130°. [α]_D²⁰ –83° (c, 0.56 in CHCl₃).

3,4-Didehydro: [105013-74-9]. *Dehydrobaimuxinol*

C₁₅H₂₄O₂ M 236.353

Constit. of *A. sinensis*. Cryst. Mp 142-143°. [α]_D²² +22.1° (c, 1.18 in CHCl₃).

4β-form [122798-42-9] *Isobaimuxinol*

Constit. of *A. sinensis*. Needles. Mp 73-75° (86-89°). [α]_D¹⁶ –64° (c, 0.095 in CHCl₃).

15-Carboxylic acid: *Dihydro-β-agarofuran-15-oic acid*.

Baimuxifuronic acid

C₁₅H₂₄O₃ M 252.353

Constit. of *A. sinensis*. Prisms. Mp 203-205°. [α]_D –83.5° (c, 0.13 in CHCl₃).

Yang, J.S. *et al*, *Acta Pharm. Sin.*, 1986, **21**, 516; 1989, **24**, 264 (*isol*)

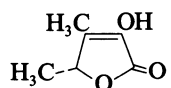
Liu, Q. *et al*, *Chin. Chem. Lett.*, 1991, **2**, 425; 1992, **3**, 495 (*synth*)

Yang, J.S. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 983 (*Baimuxifuronic acid*)

3-Hydroxy-4,5-dimethyl-2(5H)-furanone,**H-10111****9CI**

2-Hydroxy-3,4-dimethyl-2-butene-1,4-olide. *Sotolone*

[87021-36-1]

*(R)*-formC₆H₈O₃ M 128.127

Key compd. for sugar flavour; insect attractant.

(R)-form [87068-70-0]

[α]_D^{23.5} –6.5° (c, 1.15 in Et₂O).

(S)-form [87068-69-7]

[α]_D^{23.5} +7.1° (c, 1.55 in Et₂O).

(±)-form

Bp_{0.5} 87-88°. *n*_D²⁰ 1.4295.

Sulser, H. *et al*, *Z. Lebensm.-Unters. -Forsch.*, 1972, **148**, 215 (*synth*)

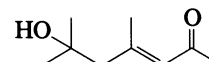
Rödel, W. *et al*, *Nahrung*, 1974, **18**, 133 (*synth*)

Takahashi, K. *et al*, *Agric. Biol. Chem.*, 1976, **40**, 325 (*isol*)

Okada, K. *et al*, *Agric. Biol. Chem.*, 1983, **47**, 1071 (*synth*)

6-Hydroxy-4,6-dimethyl-3-hepten-2-one**H-10112**

[83348-17-8]

C₉H₁₆O₂ M 156.224

Prod. by *Streptomyces olivaceus*. Also found in *Capsicum annum* var. *angulosum*. No phys. props. reported.

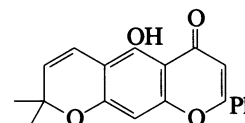
Kimura, K. *et al*, *CA*, 1982, **97**, 159552 (*isol*)

Grote, R. *et al*, *Justus Liebigs Ann. Chem.*, 1990, 525 (*isol*, *pmr*, *cmr*)

5-Hydroxy-8,8-dimethyl-2-phenyl-2H,6H-benzo[1,2-b:5,4-b']dipyrano-6-one, 9CI**H-10113**

5-Hydroxy-6,6-dimethylpyrano[2,3:7,6]flavone

[34187-26-3]

C₂₀H₁₆O₄ M 320.344

Pale yellow needles (MeOH). Mp 188°.

Me ether: [74517-64-9]. 5-Methoxy-6,6-dimethylpyrano[2,3:7,6]flavone

C₂₁H₁₈O₄ M 334.371

Constit. of the seeds of *Tephrosia praecans*. Mp 182-183° (177-180°).

Jain, A.C. *et al*, *J. Org. Chem.*, 1974, **39**, 1149 (*synth*)

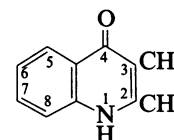
Camele, G. *et al*, *Phytochemistry*, 1980, **19**, 707 (*isol*)

Ahluwalia, V.K. *et al*, *Indian J. Chem., Sect. B*, 1982, **21**, 101 (*synth*)

4-Hydroxy-2,3-dimethylquinoline**H-10114**

2,3-Dimethyl-4(1H)-quinolinone, 9CI

[58596-45-5]

C₁₁H₁₁NO M 173.214

Alkaloid from aerial parts of *Boronia lanceolata*

(Rutaceae). Prisms + H₂O (H₂O). Spar. sol. EtOH. Mp 315°. Subl. at ca. 300°.

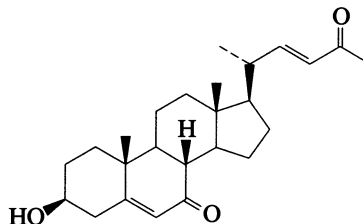
N-Acetoxymethyl: 1-Acetoxymethyl-2,3-dimethyl-4(1H)-quinolinone

C₁₄H₁₅NO₃ M 245.277

Alkaloid from aerial parts of *B. lanceolata* (Rutaceae).
Needles (CHCl₃/MeOH). Mp 175-178°.

Conrad, M. *et al*, *Ber.*, 1891, **24**, 2991.
Mander-Jones, B. *et al*, *CA*, 1933, **27**, 1350.
Royer, R. *et al*, *J. Chem. Soc.*, 1948, 106.
Scheuer, P.J. *et al*, *J. Chem. Soc.*, 1963, 5569.
Ahsan, M. *et al*, *Phytochemistry*, 1993, **33**, 1507 (*isol, uw, ir, pmr, cmr, ms, struct*)

3-Hydroxy-26,27-dinorcholesta-5,22-diene-7,24-dione H-10115

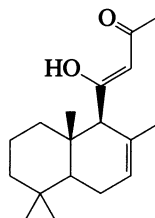


C₂₅H₃₆O₃ M 384.558
(3β,22E)-form [147641-73-4]
Constit. of *Stelodoryx chlorophylla*. [α]_D –60° (c, 0.3 in CHCl₃).

De Riccardis, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 282 (*isol, pmr, cmr, ms*)

11-Hydroxy-14,15-dinor-7,11-labdadien-13-one H-10116

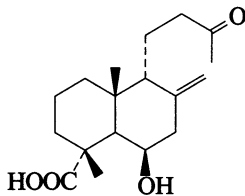
Sollasin F
[149298-02-2]



C₁₈H₂₈O₂ M 276.418
Enolised β-diketone. Constit. of *Poecillastra sollani*. Oil.
[α]_D²⁴ +92.5° (c, 0.28 in CHCl₃).

Killday, K.B. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 500 (*isol, pmr, cmr*)

6-Hydroxy-14,15-dinor-13-oxo-8(17)-labden-18-oic acid H-10117



C₁₈H₂₈O₄ M 308.417
(6β,9βH)-form

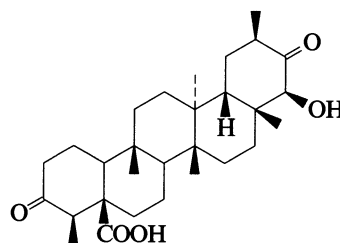
6-Benzoyl: [116425-29-7]. **Scoparic acid B**

C₂₅H₃₂O₅ M 412.525

Constit. of *Scoparia dulcis*. Amorph. powder. [α]_D –9.8° (c, 0.63 in CHCl₃).

Hayashi, T. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1748 (*isol, pmr, cmr*)

22-Hydroxy-3,21-dioxo-29-nor-24-friedelanoic acid H-10118



C₂₉H₄₄O₅ M 472.664

22β-form

Me ester: [144629-88-9].

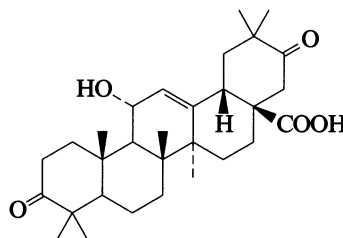
C₃₀H₄₆O₅ M 486.690

Constit. of *Trypterygium wilfordii*. Yellow cryst (EtOH).
Mp 250-251°. [α]_D²² +101.4° (c, 0.22 in MeOH).

Kutney, J.P. *et al*, *Can. J. Chem.*, 1992, **70**, 1455 (*isol, pmr, cmr, cryst struct*)

11-Hydroxy-3,21-dioxo-12-oleanen-28-oic acid H-10119

Updated Entry replacing H-01593



C₃₀H₄₄O₅ M 484.675

11α-form [72933-74-5] **Propapyriogenin A₂**

Isol. from *Tetrapanax papyriferum*.

[α-L-Rhamnopyranosyl(1→4)-β-D-glucopyranosyl(1→6)-β-D-glucopyranosyl] ester: [72938-19-3]. **Papyrioside L IIc**

C₄₈H₇₄O₁₉ M 955.101

Isol. from *T. papyriferum*. Powder. Mp 188-191°. [α]_D –47.1° (c, 0.1 in EtOH).

[α-L-Rhamnopyranosyl(1→4)-β-D-glucopyranosyl(1→6)-β-D-glucopyranosyl] ester, 11-Me ether: [59112-65-1].

Papyrioside L IIa

C₄₉H₇₆O₁₉ M 969.128

Constit. of *T. papyriferum*. Powder. Mp 182-183°. [α]_D –39° (c, 0.82 in CHCl₃). Artifact.

3α-Alcohol, [α-L-rhamnopyranosyl(1→4)-β-D-glucopyranosyl(1→6)-β-D-glucopyranosyl] ester: [72933-68-7]. **Papyrioside L IIb**

C₄₈H₇₆O₁₉ M 957.117

Isol. from *T. papyriferum*. Powder. Mp 185-190°. [α]_D –39.3° (c, 0.15 in EtOH).

Me ether: [72933-73-4]. 11α-Methoxy-3,21-dioxo-12-oleanen-28-oic acid. **Propapyriogenin A₁**

C₃₁H₄₆O₅ M 498.701

Isol. from *T. papyriferum*. Cryst. (Et₂O/C₆H₆). Mp 142-145°. [α]_D –30° (c, 0.1 in EtOH).

3α-Alcohol, 11-Me ether, [α-L-rhamnopyranosyl(1→4)-β-D-glucopyranosyl(1→6)-β-D-glucopyranosyl] ester: [72933-67-6]. **Papyrioside L IIb**

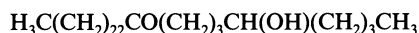
C₄₉H₇₈O₁₉ M 971.144

Constit. of *T. papyrifera*. Cryst. Mp 178-182°. [α]_D
– 37.8° (c, 0.27 in EtOH).

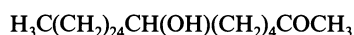
Amagaya, S. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1977, 1801;
1979, 2044.

5-Hydroxy-9-dotriacontanone, 9CI **H-10120**

[132923-40-1]

C₃₂H₆₄O₂ M 480.856Isol. from bulbs of *Crinum augustum*. Mp 80-82°.Abd El-Hafiz, M.A., *Phytochemistry*, 1990, **29**, 3936 (*isol, ir, ms, pmr*)**7-Hydroxy-2-dotriacontanone** **H-10121**

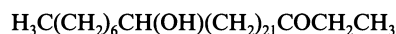
[146356-94-7]

C₃₂H₆₄O₂ M 480.856Constit. of the shoots of *Leucas aspera*. Cryst.(C₆H₆/EtOAc). Mp 84-85°.

Ac: Mp 67-68°.

Misra, T.N. *et al*, *Phytochemistry*, 1993, **32**, 199 (*isol, pmr*)**25-Hydroxy-3-dotriacontanone, 9CI** **H-10122***8-Hydroxy-30-dotriacontanone*

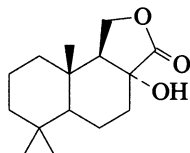
[94413-31-7]

C₃₂H₆₄O₂ M 480.856Isol. from leaves and stems of *Duboisia myoporoides*. Mp
76-77°.Shukla, Y.N. *et al*, *Phytochemistry*, 1984, **23**, 1516 (*isol, ir, ms*)**25-Hydroxy-6-dotriacontanone, 9CI** **H-10123**

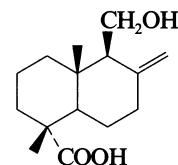
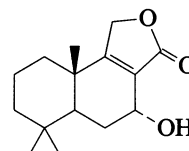
[87314-41-8]

C₃₂H₆₄O₂ M 480.856Isol. from aerial parts of *Artemisia roxburghiana*.Prasad, A.V.K. *et al*, *Indian J. Chem., Sect. B*, 1983, **22**, 610 (*isol, pmr, ir, ms*)**30-Hydroxy-5-dotriacontanone, 9CI** **H-10124**

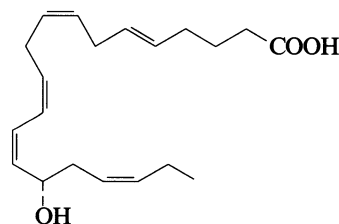
[92122-80-0]

C₃₂H₆₄O₂ M 480.856Isol. from leaves and stems of *Duboisia myoporoides*. Mp
75-76°.Shukla, Y.N. *et al*, *Phytochemistry*, 1984, **23**, 799 (*isol, ir, pmr, ms*)**8-Hydroxy-12,11-drimanolid** **H-10125**C₁₅H₂₄O₃ M 252.353**8 α -form [145400-85-7] Peniopholide**Constit. of *Peniophora polygonia*. Cryst. Mp 119.5-
120.5°. [α]_D²¹ – 5.2° (c, 0.48 in MeOH).Ayer, W.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1454 (*isol, pmr, cmr*)**11-Hydroxy-8(12)-drimen-13-oic acid** **H-10126**

[151029-03-7]

C₁₅H₂₄O₃ M 252.353Constit. of *Cryptoporus volvatus*. Powder. Mp 224-225°.[α]_D + 26.6° (c, 1.09 in MeOH).Takahashi, H. *et al*, *Phytochemistry*, 1993, **33**, 1055 (*isol, pmr, cmr*)**7-Hydroxy-8-drimen-12,11-olide** **H-10127**C₁₅H₂₂O₃ M 250.337**7 α -form [145512-54-5] 7 α -Hydroxyconfertifolin**Constit. of *Peniophora polygonia*. Cryst. Mp 216-218°.[α]_D²¹ + 34.4° (c, 0.27 in MeOH).Ayer, W.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1454 (*isol, pmr, cmr*)**15-Hydroxy-5,8,11,13,17-eicosapentaenoic acid** **H-10128***15-HEPE*

[97850-14-1]

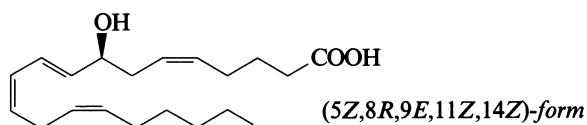
C₂₀H₃₀O₃ M 318.455**(5E,8Z,11Z,13Z,15S,17Z)-form [86282-92-0]**Prod. by *Skeletonema costatum*. Autoinhibitor.

[88852-33-9, 104758-12-5]

Mitchell, P.D. *et al*, *Biochem. Soc. Trans.*, 1984, **12**, 839.Fogh, K. *et al*, *Biomed. Environ. Mass Spectrom.*, 1988, **17**, 459
(*synth, ms*)Imada, N. *et al*, *CA*, 1992, **117**, 229789, 248273 (*isol, pmr, cmr*)

8-Hydroxy-5,9,11,14-eicosatetraenoic acid, 9CI
8-HETE

H-10129

C₂₀H₃₂O₃ M 320.471**(5Z,8R,9E,11Z,14Z)-form** [105500-09-2]Isol. from the black coral *Leiopathes* sp. [α]_D²⁰ +4.0° (c, 0.48 in CHCl₃). Uv 236.5 (21150) nm (95% EtOH).

Et ester: [117333-02-5].

C₂₂H₃₆O₃ M 348.525Isol. from *L.* sp. [α]_D²⁰ +4.5° (c, 0.32 in CHCl₃).**8-Oxo:** [116539-62-9]. **8-Keto-5,9,11,14-eicosatetraenoic acid. 8-Oxo-EETE. 8-KETE**C₂₀H₃₀O₃ M 318.455

Arachidonic acid metab.

(8S,5Z,9E,11Z,14Z)-form [98462-03-4]

Metab. of arachidonic acid.

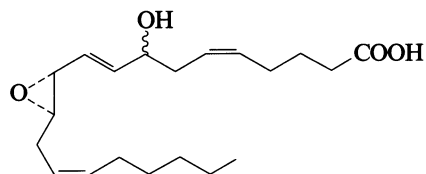
Me ester:

C₂₁H₃₄O₃ M 334.498Oil. [α]_D²² -4.75° (c, 0.4 in CHCl₃).

[70968-93-3, 79495-84-4, 100896-77-3]

Porter, N.A. *et al*, *J. Org. Chem.*, 1979, **44**, 3177 (*synth, ms*)Boeynaems, J.M. *et al*, *Anal. Biochem.*, 1980, **104**, 259 (*synth*)Rabinovitch, H. *et al*, *Lipids*, 1981, **16**, 518 (*metab*)Adams, J. *et al*, *Tetrahedron Lett.*, 1984, **25**, 35 (*synth*)Just, G. *et al*, *J. Org. Chem.*, 1986, **51**, 4796 (*synth, ms, pmr*)Yadagiri, P. *et al*, *Tetrahedron Lett.*, 1986, **27**, 6039 (*synth*)Wiseman, J.S. *et al*, *Biochem. Biophys. Res. Commun.*, 1988, **154**, 544 (*synth*)Guerriero, A. *et al*, *Helv. Chim. Acta*, 1988, **71**, 1094 (*synth, uv, ir, pmr, cmr*)Kuehn, H. *et al*, *Eicosanoids*, 1991, **4**, 9 (*biosynth*)**8-Hydroxy-11,12-epoxy-5,9,14-eicosatrienoic acid**

H-10130

Hepoxilin A. Hepoxilin A₃C₂₀H₃₂O₄ M 336.470**(5Z,9E,11S,12S,14Z)-form**

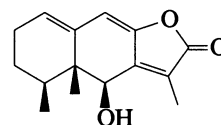
Metab. of arachidonic acid also prod. in pancreatic islet cells. 8-Epimers sepd. but no phys. props. given.

Me ester: *Methyl 8-hydroxy-10-[3-(2-octenyl)oxiranyl]-5,9-decadienoate. Hepoxilin A₃ methyl ester*C₂₁H₃₄O₄ M 350.497

Two diastereoisomers sepd. by flash chromatog.

Pace-Asciak, C.R. *et al*, *J. Biol. Chem.*, 1983, **258**, 6835 (*isol*)Corey, E.J. *et al*, *Tetrahedron Lett.*, 1984, **25**, 5119 (*synth, pmr*)Chabert, P. *et al*, *Tetrahedron Lett.*, 1989, **30**, 2545 (*synth*)**6-Hydroxy-1(10),7(11),8-eremophilatrien-12,8-olide**

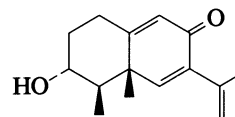
H-10131

C₁₅H₁₈O₃ M 246.305**6β-form***6-Hydroxyyliguarenolide*

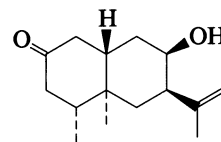
Ac: [64197-41-7].

C₁₇H₂₀O₄ M 288.343Constit. of *Euryops* spp. Oil.Bohlmann, F. *et al*, *Phytochemistry*, 1978, **17**, 1135 (*isol, pmr*)**3-Hydroxy-6,9,11-eremophilatrien-8-one**

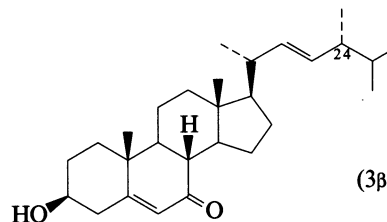
H-10132

C₁₅H₂₀O₂ M 234.338**3α-form**Metab. of *Drechslera gigantea*. [α]_D +2.2° (c, 0.5 in CHCl₃).Sugawara, F. *et al*, *Biosci., Biotechnol., Biochem.*, 1993, **57**, 236 (*isol, pmr*)**8-Hydroxy-11-eremophilen-2-one**

H-10133

C₁₅H₂₄O₂ M 236.353**(4α,5α,8β)-form** [69847-01-4]Constit. of *Ligularia tussilaginea*.Kurihara, T. *et al*, *CA*, 1979, **90**, 152387c (*isol, pmr*)**3-Hydroxyergosta-5,22-dien-7-one**

H-10134

3-Hydroxy-24-methylcholesta-5,22-dien-7-one

(3β,22E,24R)-form

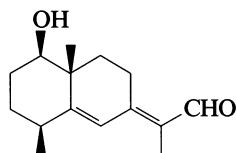
C₂₈H₄₄O₂ M 412.654**(3β,22E,24R)-form** [145163-96-8]Constit. of *Cliona copiosa*.**(3β,22E,24S)-form** [99081-78-4]Constit. of *C. copiosa*.Notaro, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1588 (*isol, pmr, ms*)

N-(1-Hydroxyethyl)benzanilide**H-10135**

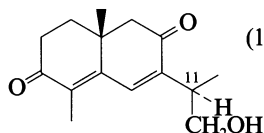
N-(1-Hydroxyethyl)-N-phenylbenzamide. N-Benzoyl-N-phenylaminomethylcarbinol

C₁₅H₁₅NO₂ M 241.289Alkaloid from *Oxytropis muricata*. Cryst. (CHCl₃). Mp 147-149°.

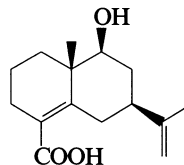
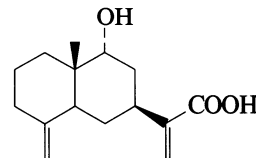
B,HCl: Cryst. Mp 194-197°.

Duboshina, Z.N. et al, *Zh. Obshch. Khim.*, 1963, **33**, 2071; *CA*, **59**, 12851h (isol)**1-Hydroxy-5,7(11)-eudesmadien-12-al****H-10136**

(1β,7(11)E)-form

C₁₅H₂₂O₂ M 234.338**(1β,7(11)E)-form** [85431-43-2] *Vernostipulal B*
Constit. of *Vernonia stipulacea*. Oil.**(1β,7(11)Z)-form** [85431-42-1] *Vernostipulal A*
Constit. of *V. stipulacea*. Gum.Bohlmann, F. et al, *Phytochemistry*, 1982, **21**, 2263 (isol, pmr)**12-Hydroxy-4,6-eudesmadiene-3,8-dione****H-10137****12-Hydroxy-8-oxo-β-cyperone**

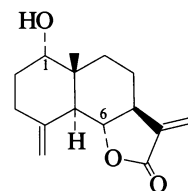
(11R)-form

C₁₅H₂₀O₃ M 248.321**(11R)-form** [106010-40-6]Constit. of *Haplopappus freemontii*. Oil.**(11S)-form** [106010-39-3]Constit. of *H. freemontii*. Oil. [α]_D²¹ + 388° (c, 0.13 in CHCl₃).Jakupovic, J. et al, *Planta Med.*, 1986, 411 (isol, pmr, cmr)Cardona, L. et al, *Tetrahedron*, 1993, **49**, 7829 (synth)**9-Hydroxy-4,11-eudesmadien-15-oic acid****H-10138**C₁₅H₂₂O₃ M 250.337**9β-form** [150034-07-4]Constit. of *Aquilaria agallocha* (agarwood). [α]_D²² + 91.5° (c, 0.8 in CHCl₃) (Me ester).Ichihara, M. et al, *Phytochemistry*, 1993, **33**, 1147 (isol, pmr, cmr)**9-Hydroxy-4(15),11(13)-eudesmadien-12-oic acid****H-10139**Updated Entry replacing H-01750
9-Hydroxycostic acid**9α-form**C₁₅H₂₂O₃ M 250.337**9α-form**Isol. from *Fluorensia macrophylla*. Oil.**9β-form** [94190-55-3]Isol. from *F. macrophylla*.

Ac: [126217-92-3].

C₁₇H₂₄O₄ M 292.374Constit. of *A. tournefortiana*. Oil (as Me ester). [α]_D²⁴ + 41° (c, 0.51 in CHCl₃)(Me ester).**9-Ketone**: [94190-53-1]. **9-Oxo-4(15),11(13)-eudesmadien-12-oic acid. 9-Oxocostic acid**C₁₅H₂₀O₃ M 248.321Isol. from *F. macrophylla* and *Artemisia tournefortiani*. Cryst. (as Me ester). Mp 46° (Me ester).Bohlmann, F. et al, *Phytochemistry*, 1984, **23**, 1445.Sanz, J.F. et al, *Justus Liebigs Ann. Chem.*, 1990, 541 (isol, pmr, cmr)Marco, J.A. et al, *Magn. Reson. Chem.*, 1992, **30**, 678 (cmr)**1-Hydroxy-4(15),11(13)-eudesmadien-12,6-olide****H-10140**

Updated Entry replacing H-01757



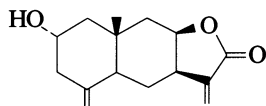
(1α,6α)-form

C₁₅H₂₀O₃ M 248.321**(1α,6α)-form**Constit. of *Schistostephium rotundifolium*. Gum. [α]_D²⁴ + 132° (c, 0.75 in CHCl₃).**(1β,6α)-form** [28254-53-7] **Reynosin**Constit. of *Ambrosia confertiflora*. Cryst.(C₆H₆/cyclohexane). Mp 145-146°. [α]_D²⁵ + 180° (c, 0.12 in EtOH).**1-O-β-D-Glucopyranoside**: [111618-85-0]. **Sonchuside D**C₂₁H₃₀O₈ M 410.463Constit. of *Sonchus oleraceus* and *S. asper*. Amorph. powder. [α]_D²⁵ + 64.3° (c, 0.14 in MeOH).**11α,13-Dihydro**: [32223-12-4]. **Dihydroreynosin**C₁₅H₂₂O₃ M 250.337Constit. of *Artemisia canariensis* and *Michelia compressa*. Cryst. (hexane). Mp 136-137°. Struct. revised in 1990.**11β,13-Dihydro: 11-Epidihydroreynosin**C₁₅H₂₂O₃ M 250.337Constit. of *A. herba-alba* and *Centaurea ornata*. Needles (Et₂O/hexane). Mp 142-145°. [α]_D²⁴ + 1.8° (c, 0.9 in CHCl₃).Yoshioko, H. et al, *Phytochemistry*, 1970, **9**, 823 (isol, struct)

Ando, M. *et al*, *Tetrahedron*, 1977, **33**, 2785 (*synth*)
 Rodrigues, A.A.S. *et al*, *Phytochemistry*, 1978, **17**, 953 (*synth*)
 Bohlmann, F. *et al*, *Phytochemistry*, 1982, **21**, 1666; 1983, **22**, 1623
 (*isol, struct*)
 Gonzalez, A.G. *et al*, *Phytochemistry*, 1983, **22**, 1509 (*isol*)
 Van Hijfte, L. *et al*, *Tetrahedron*, 1984, **40**, 4371 (*synth*)
 Miyase, T. *et al*, *Chem. Pharm. Bull.*, 1987, **35**, 2869 (*Sonchuside D*)
 Navarro, J.J. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 573 (*isol, pmr, cmr, struct*)

2-Hydroxy-4(15),11(13)-eudesmadien-12,8-olide H-10141

Updated Entry replacing H-01763



$C_{15}H_{20}O_3$ M 248.321

(2 α ,8 β)-form [5938-03-4] *Ivalin*

Constit. of *Iva microcephala* and *I. imbricata*. Cryst. (C_6H_6 /pet. ether). Mp 130-132°. $[\alpha]_D^{23} +142^\circ$ (c, 1.03 in $CHCl_3$).

11 α ,13-Dihydro: 2-Hydroxy-4(15)-eudesmen-12,8-olide.

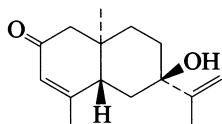
11,13-Dihydroivalin

$C_{15}H_{22}O_3$ M 250.337

Constit. of *Inula graveolens*.

Herz, W. *et al*, *J. Org. Chem.*, 1962, **27**, 905 (*isol, struct*)
 Tomioka, K. *et al*, *Tetrahedron Lett.*, 1984, **25**, 333 (*synth*)
 Topçu, G. *et al*, *Phytochemistry*, 1993, **33**, 407 (*Dihydroivalin*)

7-Hydroxy-3,11-eudesmadien-2-one H-10142



$C_{15}H_{20}O_2$ M 232.322

MF given as $C_{15}H_{20}O$ in paper.

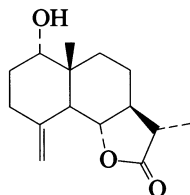
(*ent*-7 α)-form

Teucrone

Constit. of *Teucrium heterophyllum*. Gum.

Fraga, B.M. *et al*, *Phytochemistry*, 1993, **34**, 1083 (*isol, pmr, cmr*)

1-Hydroxy-4(15)-eudesmen-12,6-olide H-10143



$C_{15}H_{22}O_3$ M 250.337

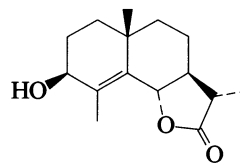
(1 α ,6 α ,11 β H)-form [82292-50-0]

$C_{15}H_{22}O_3$ M 250.337

Constit. of *Artemisia spicigera*. Oil. $[\alpha]_D +56^\circ$ (c, 1.9 in $CHCl_3$).

Marco, J.A. *et al*, *Phytochemistry*, 1993, **32**, 460 (*isol, pmr, cmr*)

3-Hydroxy-4-eudesmen-12,6-olide H-10144



$C_{15}H_{22}O_3$ M 250.337

(3 β ,6 α ,11 β H)-form

Needles ($CHCl_3$ /hexane). Mp 173-175°.

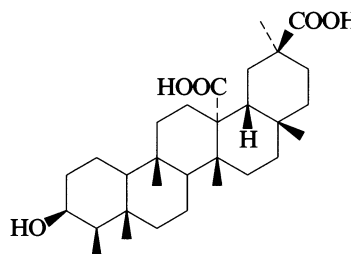
3-O- β -D-Glucopyranoside: [111618-84-9]. *Sonchuside C*

$C_{21}H_{32}O_8$ M 412.479

Constit. of *Sonchus oleraceus*. Amorph. powder. $[\alpha]_D^{25} -12.0^\circ$ (c, 0.5 in MeOH).

Miyase, T. *et al*, *Chem. Pharm. Bull.*, 1987, **35**, 2869 (*isol, pmr, cmr*)

3-Hydroxy-27,29-friedelanedioic acid H-10145



$C_{30}H_{48}O_5$ M 488.706

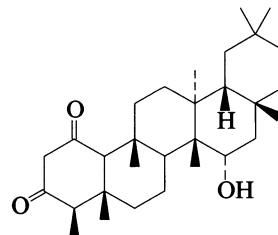
3 β -form

Constit. of *Phyllobotryon spathulatum*. Amorph. solid.

Mp 332-333°. $[\alpha]_D +5^\circ$ (c, 0.1 in MeOH).

Gibbons, S. *et al*, *Phytochemistry*, 1993, **34**, 273 (*isol, pmr, cmr, cryst struct*)

15-Hydroxy-1,3-friedelanedione H-10146



$C_{30}H_{48}O_3$ M 456.707

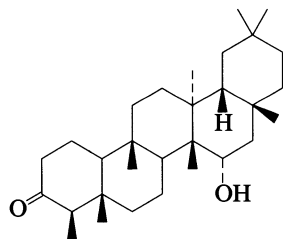
15 α -form [145223-63-8]

Constit. of *Peritassa compta*. Cryst. Mp 245-248°. $[\alpha]_D -19.8^\circ$ (c, 0.16 in $CHCl_3$).

Klais, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1626 (*isol, pmr, cmr*)

15-Hydroxy-3-friedelanone

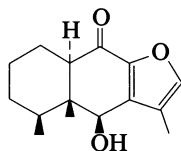
H-10147

C₃₀H₅₀O₂ M 442.724**15 α -form** [145223-62-7] **15 α -Hydroxyfriedelin**Constit. of *Peritassa compta*. Cryst. Mp 275-276°. [α]_D –32.1° (c, 0.4 in HCl₃).**15-Ketone:** [69999-74-2]. **3,15-Friedelanedione**C₃₀H₄₈O₂ M 440.708Constit. of *P. compta*. Cryst. Mp 269-271°. [α]_D –0.6° (c, 0.8 in HCl₃).Kloss, J. et al, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1626 (*isol, pmr, cmr*)

6-Hydroxyfuranoremphilan-9-one

H-10148

Updated Entry replacing H-01843

6-Hydroxy-9-oxofuranoremphilane**(6 β ,10 α H)-form**C₁₅H₂₀O₃ M 248.321**(6 β ,10 α H)-form****Ac:** [24405-85-4]. **Dihydrodecompositin**C₁₇H₂₂O₄ M 290.358Constit. of *Euryops* spp. Oil.**Angeloyl:** [24405-77-4].C₂₀H₂₆O₄ M 330.423Constit. of *Senecio umbellatus*. Oil.**3-Methylbutanoyl:** [55050-52-7].C₂₀H₂₈O₄ M 332.439Constit. of *S. umbellatus*. Oil.**3-Methylpentanoyl:** [59742-00-6].C₂₁H₃₀O₄ M 346.466Constit. of *S. praecox*. Oil.**3-Methyl-2-pentenoyl:** [59742-01-7].C₂₁H₂₈O₄ M 344.450Constit. of *S. praecox*. Oil.**Methylpropenoyl:** [24405-84-3].C₁₉H₂₄O₄ M 316.396Constit. of *S. umbellatus*. Cryst. (Et₂O/pet. ether). Mp 95°.**3-Methyl-2-butenoyl:** [59742-08-4].C₂₀H₂₆O₄ M 330.423Constit. of *S. praecox*. Oil.**Propanoyl:**C₁₈H₂₄O₄ M 304.385Constit. of *S. pachyphyllos*.**O-(2,3-Epoxy-2-methylbutanoyl):** [68773-72-8].C₂₀H₂₆O₅ M 346.422Constit. of *Euryops* spp. Oil.**O-Tigloyl:**C₂₀H₂₆O₄ M 330.423Constit. of *E. spp.* Oil.**(6 β ,10 β H)-form** [24405-68-3]Constit. of *S. tricephalus*. Cryst. (Et₂O/C₆H₆). Mp 164-167°. [α]_D²⁴ –45° (c, 0.6 in CHCl₃).**Ac:**C₁₇H₂₂O₄ M 290.358Constit. of *S. tricephalus*. Oil. [α]_D²⁴ –41° (c, 2.94 in CHCl₃).**O-Methylpropenoyl:** [53820-45-4].Constit. of *E. spathaceus*. Cryst. (Et₂O/pet. ether). Mp 109.5°.**Angeloyl:**C₂₀H₂₆O₄ M 330.423Constit. of *S. tricephalus*.**O-(3-Methyl-2-butenoyl):**C₂₀H₂₆O₄ M 330.423Constit. of *E. spp.* Oil.**O-Tigloyl:**C₂₀H₂₆O₄ M 330.423Constit. of *E. spp.* Oil.**O-(2-Methyl-2-propenoyl):**C₁₉H₂₄O₄ M 316.396Constit. of *E. spp.* Oil.**O-(2-Methylpropanoyl):**C₁₉H₂₆O₄ M 318.412Constit. of *E. spp.* Oil. [α]_D²⁴ –95.0° (c, 1.45 in CHCl₃).**6-Ketone:** [18452-51-2]. **Furanoeremophilane-6,9-dione**C₁₅H₁₈O₃ M 246.305Constit. of *S. lanceus*. Oil. Bp_{0.1} 140°. [α]_D²⁴ +10° (c, 0.7 in CHCl₃).Samek, Z. et al, *Collect. Czech. Chem. Commun.*, 1969, **34**, 2792 (*struct*)Bohlmann, F. et al, *Chem. Ber.*, 1972, **105**, 3523; 1974, **107**, 2912; 1976, **109**, 819 (*isol*)Bohlmann, F. et al, *Justus Liebigs Ann. Chem.*, 1976, 1487 (*synth*)Bohlmann, F. et al, *Phytochemistry*, 1978, **17**, 1135 (*isol, pmr*)Yamakawa, K. et al, *Chem. Pharm. Bull.*, 1981, **29**, 3474 (*synth*)Bohlmann, F. et al, *Bull. Soc. Chim. Belg.*, 1986, **95**, 707 (*isol*)Ahmed, M. et al, *Phytochemistry*, 1991, **30**, 2078 (*propanoyl*)Rodriguez, M.L. et al, *Acta Crystallogr., Sect. C*, 1992, **48**, 143 (*cryst struct*)

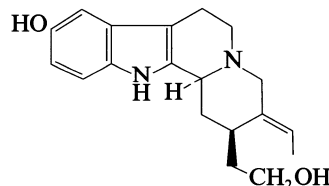
10-Hydroxygeissoschizol

H-10149

Updated Entry replacing H-01854

Huntabrine. Huntrabrine

[6870-18-4]

C₁₉H₂₄N₂O₂ M 312.411Alkaloid from *Amsonia elliptica*, *Rauwolfia vomitoria* and *Ervatamia hainanensis* (Apocynaceae).**N-Metho salt: Huntrabrine N-metho salt**C₂₀H₂₇N₂O₂⁺ M 327.445 (ion)Quaternary alkaloid from *Hunteria eburnea* and *Pleiocarpa mutica* (Apocynaceae).**N-Me, chloride:**C₂₀H₂₇ClN₂O₂ M 362.898Cryst. (MeOH aq.). Mp 282-286° dec. [α]_D²⁶ +56° (c, 0.585 in H₂O).**N-Me, picrate:** Cryst. (MeOH). Mp 104-105°.**Me ether:** [15266-60-1]. **10-Methoxygeissoschizol. 19,20-Dehydro-10-methoxydihydrocorynantheol. Alkaloid AD-VI**

$C_{20}H_{26}N_2O_2$ M 326.438

Alkaloid from *Aspidosperma discolor*, *A. oblongum*, *A. marcgravianum*, *R. vomitoria*, *R. obscura* and *Neisosperma kilneri* (Apocynaceae). Cryst. (MeOH/Et₂O or Me₂CO/pentane). Mp 184-185° dec. (181-182.5°). $[\alpha]_D^{24} -64.5^\circ (-42^\circ)$ (c, 0.916 in pentane).

Me ether, *Ac*: Amorph.

Me ether, *picrate*: Cryst. (MeOH aq.). Mp 186-194° dec.

Me ether, *stypnate*: Cryst. (MeOH/Et₂O or Me₂CO aq.). Mp 153-155°.

Me ether, *N-Me*: **10-Methoxy-4-methylgeissoschizol**

$C_{21}H_{29}N_2O_2^{\oplus}$ M 341.472 (ion)

Quaternary alkaloid from bark of *A. pruinsum* (Apocynaceae). Mp 171-173°. $[\alpha]_D^{25} +36.04^\circ$ (c, 1.0 in MeOH). Counterion not specified.

Bartlett, M.F. *et al*, *J. Org. Chem.*, 1963, **28**, 1445 (*N*-Metho salt)
Khan, Z.M. *et al*, *Helv. Chim. Acta*, 1965, **48**, 1957 (*N*-Metho salt)

Gilbert, B. *et al*, *Tetrahedron*, 1965, **21**, 1141 (*10*-Methoxygeissoschizol)

Dastoor, N.J. *et al*, *Helv. Chim. Acta*, 1967, **50**, 213 (*10*-Methoxygeissoschizol)

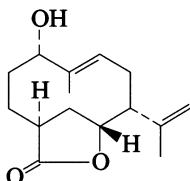
Sakai, S. *et al*, *Yakugaku Zasshi*, 1973, **93**, 483; *CA*, **79**, 63538h (*isol*)

Feng, X.Z. *et al*, *Planta Med.*, 1982, **44**, 212 (*isol*)

Iwu, M.M. *et al*, *Planta Med.*, 1982, **45**, 105 (*isol*)

Nunes, D.S. *et al*, *Phytochemistry*, 1992, **31**, 2507 (*10*-Methoxy-4-methylgeissoschizol)

1-Hydroxy-9,11-germacradien-15,6-olide H-10150

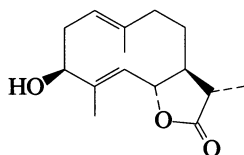


$C_{15}H_{22}O_3$ M 250.337

(1α,6α,7βH,9E)-form [104613-44-7] *Versicolactone B*
Constit. of *Aristolochia versicolor*. Cryst. Mp 135-136°.

Zhang, J. *et al*, *Yaoxue Xuebao*, 1986, **21**, 273; *CA*, **105**, 149709g (*isol*, *pmr*, *cmr*)

3-Hydroxy-1(10),4-germacradien-12,6-olide H-10151



$C_{15}H_{22}O_3$ M 250.337

(1(10)E,3β,4E,6α,11βH)-form
Amorph. powder.

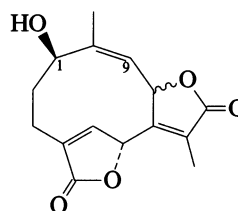
3-O-β-D-Glucopyranoside: [111618-82-7]. *Sonchuside A*

$C_{21}H_{32}O_8$ M 412.479

Constit. of *Sonchus oleraceus*. Amorph. powder. $[\alpha]_D^{25} +29.1^\circ$ (c, 0.55 in MeOH).

Miyase, T. *et al*, *Chem. Pharm. Bull.*, 1987, **35**, 2869 (*isol*, *pmr*, *cmr*)

1-Hydroxy-4,7(11),9-germacatriene-12,8:15,6-olide H-10152



(1β,6α,8ξ,9Z)-form

$C_{15}H_{16}O_5$ M 276.288

(1β,6α,8ξ,9Z)-form

Ac: [145940-29-0]. *Zeylaninone*

$C_{17}H_{18}O_6$ M 318.326

Constit. of *Neolitsea acutotrinervia*. Plates. Mp 206-208°.

(1β,6β,8ξ,9E)-form

4α,5α-Epoxy: [145963-73-1]. 4,5-Epoxy-1-hydroxy-7(11),9-germacradiene-12,8:15,6-diolide. *Acutotrinone*

$C_{15}H_{16}O_6$ M 292.288

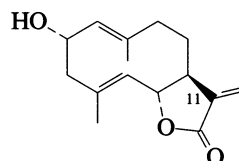
Constit. of *N. acutotrinervia*. Plates (Me₂CO/hexane).

Mp 212-214°.

Li, W.-S., *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1614 (*isol*, *pmr*, *cmr*)

1-Hydroxy-1(10),4,11(13)-germacatrien-12,6-olide H-10153

Updated Entry replacing H-01870



(1(10)E,2α,4E,6α)-form

$C_{15}H_{20}O_3$ M 248.321

(1(10)E,2α,4E,6α)-form [19888-11-0] *Tamaulipin A*
Constit. of *Ambrosia confertiflora*. Cryst. (CHCl₃). Mp 159-160°. $[\alpha]_D +171^\circ$ (c, 1.08 in MeOH).

11β,13-Dihydro: 2α-Hydroxy-1(10)E,4E-germacradien-12,6α-olide. *Dihydrotamaulipin A*. 2α-Hydroxycostunolide

$C_{15}H_{22}O_3$ M 250.337

Isol. from *A. confertiflora*. Cryst. (Et₂O). Mp 119-120°.

11β,13-Dihydro, *Ac*: Cryst. (Et₂O). Mp 140°. $[\alpha]_D +133^\circ$ (c, 0.85 in MeOH).

11β,13-Dihydro, 2-O-β-D-glucopyranoside: *Ratibinolide III*

$C_{21}H_{32}O_8$ M 412.479

Constit. of *Ratibida latipalearis*. Cryst. Mp 155-158°.

$[\alpha]_D +17^\circ$ (c, 1 in MeOH).

(1(10)Z,2α,4Z,6α)-form [62948-60-1]

Isol. from *Chrysanthemum poteriifolium*.

(1(10)Z,2α,4Z,6β)-form

Constit. of *Geigeria rigida*. Gum.

Fischer, N.H. *et al*, *Tetrahedron*, 1968, **24**, 4091 (*isol*, *struct*)

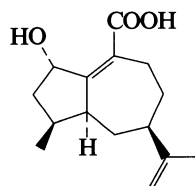
Bhacca, N.S. *et al*, *J. Chem. Soc., Chem. Commun.*, 1969, 68 (*struct*)

Bohlmann, F. *et al*, *Phytochemistry*, 1977, **16**, 137 (*isol*)

Witt, M.E. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1978, 204 (*cryst struct*)

Zdero, C. *et al*, *Phytochemistry*, 1989, **28**, 3105 (*isol*, *pmr*)

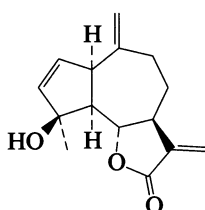
Jiminez, A. *et al*, *Phytochemistry*, 1993, **34**, 1079 (*Ratibinolide III*)

2-Hydroxy-1(10),11-guaiadien-15-oic acid H-10154

$C_{15}H_{22}O_3$ M 250.337
(2 α ,4 β ,5 α)-form [146201-43-6]
 Constit. of agarwood *Aquilaria agallocha*. Oil. $[\alpha]_D^{26}$
 –32.1° (c, 0.05 in $CHCl_3$).
 Ishihara, M. *et al*, *Tetrahedron*, 1992, **48**, 10265 (*synth, pmr, cmr*)

4-Hydroxy-2,10(14),11(13)-guaiatrien-12,6-olide H-10155

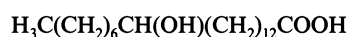
Updated Entry replacing H-01920



$C_{15}H_{18}O_3$ M 246.305
(4 β ,6 α)-form [126705-54-2]
 Constit. of *Peyrousea umbellata*. Gum.
(4 α ,6 α)-form
 Constit. of *Artemisia feddei*. Gum.
11 β ,13-Dihydro: 4-Hydroxy-2,10(14)-guaiadien-12,6-olide
 $C_{15}H_{20}O_3$ M 248.321
 Constit. of *A. feddei*. Gum.
 Zdero, C. *et al*, *Phytochemistry*, 1989, **28**, 3101 (*isol, pmr*)
 Tan, R.X. *et al*, *Planta Med.*, 1992, **58**, 459 (*isol, pmr*)

14-Hydroxyheneicosanoic acid, 9CI H-10156

[97534-12-8]



$C_{21}H_{42}O_3$ M 342.561
 Constit. of the rhizomes of *Panax pseudo-ginseng*. Mp 84°.
 Shukla, Y.N. *et al*, *Phytochemistry*, 1985, **24**, 1091 (*isol*)

15-Hydroxyheneicosanoic acid, 9CI H-10157

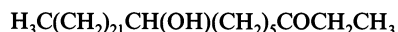
[79097-24-8]



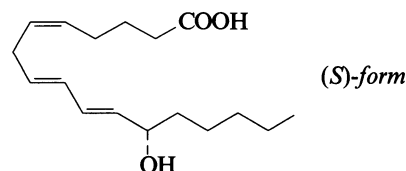
$C_{21}H_{42}O_3$ M 342.561
 Constit. of the leaves and stems of *Hyoscyamus muticus*.
 Cryst. (C_6H_6 /hexane). Mp 80-82°.
 Goswami, A. *et al*, *Phytochemistry*, 1981, **20**, 1315 (*isol*)

9-Hydroxy-3-hentriacontanone, 9CI H-10158

[132923-41-2]



$C_{31}H_{62}O_2$ M 466.830
 Isol. from bulbs of *Crinum augustum*. Mp 76-78°.
 Abd El-Hafiz, M.A., *Phytochemistry*, 1990, **29**, 3936 (*isol, ir, ms, pmr*)

12-Hydroxy-5,8,10-heptadecatrienoic acid H-1015912-HHT
[50683-78-8]

$C_{17}H_{28}O_3$ M 280.406
 Stimulates prostacyclin production.
(5Z,8E,10E,12S)-form [54397-84-1]
 Major metab. of arachidonic acid.

Me ester: [79171-56-5].

$C_{18}H_{30}O_3$ M 294.433
 Oil. $[\alpha]_D^{25} + 7.5^\circ$ (c, 0.2 in $CHCl_3$). Uv λ_{max} 240 nm (MeOH).

12-Ketone: [103374-38-5]. *12-Oxo-5,8,10-heptadecatrienoic acid. 12-KHT*

Arachidonic acid metab. produced by human leukaemia cells. Formed from keto-PGH₂ by prostacyclin synthase and thromboxane synthase.

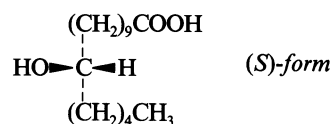
[81585-98-0, 81610-84-6, 100679-07-0]

Hamberg, M. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1974, **71**, 3400, 3824 (*biosynth, isol, uv, ms*)Russell, S.W. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1982, 545 (*synth, pmr, ir, ms*)Sirois, P. *et al*, *Prostaglandins*, 1982, **24**, 405 (*biosynth*)Agins, A.P. *et al*, *Biochem. Pharmacol.*, 1987, **36**, 1799 (*biosynth*)Hecker, M. *et al*, *Eicosanoids*, 1988, **1**, 19 (*biosynth*)De Montarby, L. *et al*, *Bull. Soc. Chim. Fr.*, 1989, 419 (*synth, pmr, cmr, ir*)Nicolaou, K.C. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1989, 2131 (*synth, pmr*)Suzuki, M. *et al*, *J. Org. Chem.*, 1989, **54**, 5292 (*synth, ir, pmr*)**11-Hydroxyhexadecanoic acid** H-10160

Updated Entry replacing H-01966

11-Hydroxypalmitic acid. Jalapinolic acid. Scammonolic acid. Turpetholic acid E

[502-75-0]



$C_{16}H_{32}O_3$ M 272.427
(S)-form [13717-17-4]

Occurs in jalap and Scammony resins (*Ipomoea orizabensis* and *Convolvulus scammonia*) and other *I.* spp., in glycosidic form. Cryst. (EtOAc). Mp 68-69°.
 $[\alpha]_D + 0.79^\circ$ ($CHCl_3$).

Me ester: [60368-18-5]. $C_{17}H_{34}O_3$ M 286.454

Cryst. (pet. ether or EtOAc). Mp 40.5-41.5°, Mp 47-49°.
 Bp₃ 183-186°.

Et ester: $C_{18}H_{36}O_3$ M 300.481

Cryst. Mp 47-48°.

Ac: $C_{18}H_{34}O_4$ M 314.464Oil. Bp₅₀ 224-225°.

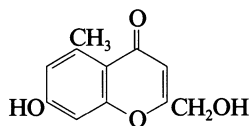
O- $[\alpha$ -L-Rhamnopyranosyl(1→4)- α -L-rhamnopyranoside]:
 [68124-11-8]. **Muricatin B**

 $C_{28}H_{52}O_{11}$ M 564.712

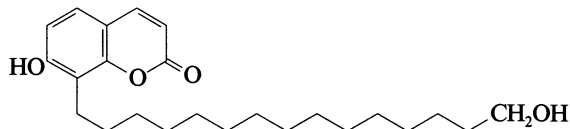
C₁₄H₁₆O₄ M 248.278**(2E,2'E)-form***Me ester*: [131615-26-4].C₁₅H₁₈O₄ M 262.305Constit. of *Artemisia marschalliana* and *A. xanthochroa*.4'-*Ac*, *Me ester*: [131559-47-2].C₁₇H₂₀O₅ M 304.342Constit. of *A. xanthochroa*.4'-*Me ether*, *Me ester*: [131573-89-2].C₁₆H₂₀O₄ M 276.332Constit. of *A. xanthochroa*.**(2E,2'Z)-form***Me ester*: [131616-49-4].Constit. of *A. xanthochroa*.**(2Z,2'E)-form***Me ester*: [131615-27-5].Constit. of *A. xanthochroa*.Merikli, A.H. *et al*, *Fitoterapia*, 1990, **61**, 145 (*isol*)Jakupovic, J. *et al*, *Phytochemistry*, 1990, **29**, 3683 (*isol*)**7-Hydroxy-2-(hydroxymethyl)-5-methyl-4H-1-benzopyran-4-one** H-10164

7-Hydroxy-2-(hydroxymethyl)-5-methylchromone

[143553-00-8]

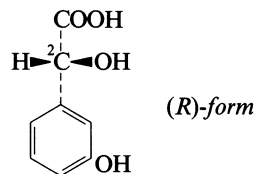
C₁₁H₁₀O₄ M 206.198Prod. by *Penicillium* sp. No. 31f. Plant growth promotor.Needles (CHCl₃/MeOH). Mp 231-234°.Kimura, Y. *et al*, *Biosci., Biotechnol., Biochem.*, 1992, **56**, 1138 (*isol*, *pmr*, *cmr*)**7-Hydroxy-8-(15-hydroxypentadecyl)-2H-1-benzopyran-2-one** H-10165

7-Hydroxy-8-(15-hydroxypentadecyl)coumarin

C₂₄H₃₆O₄ M 388.5467-*Me ether*: [79901-66-9]. 8-(15-Hydroxypentadecyl)-7-methoxy-2H-benzopyran-2-one, 9CIC₂₅H₃₈O₄ M 402.573*Isol*. from the bark of *Erythrina stricta*.Singh, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 526 (*isol*, *ir*, *uv*, *pmr*)**2-Hydroxy-2-(3-hydroxyphenyl)acetic acid** H-10166

Updated Entry replacing H-02035

α,3-Dihydroxybenzeneacetic acid, 9CI. *m-Hydroxymandelic acid*, 8CI. *α,3-Dihydroxyphenylacetic acid*. 3-Hydroxyphenylglycollic acid. *α,3-Dihydroxy-α-toluic acid* [17119-15-2]

C₈H₈O₄ M 168.149**(R)-form***Nitrile*, 2-O-β-D-Glucopyranoside: [41753-54-2]. **Holocalin**C₁₄H₁₇NO₇ M 311.291Cyanogenic glucoside from seeds of *Holocalyx balansae*.Mp 154-155°. [α]_D²⁰ – 59.1° (c, 1.14 in EtOH).**(S)-form***Nitrile*, 2-O-β-D-Glucopyranoside: [645-02-3]. **Zierin**C₁₄H₁₇NO₇ M 311.291*Isol*. from above ground parts of *Zieria laevigata*.Needles (EtOAc/CHCl₃). Mp 156° (softens at 153°).[α]_D^{20.3} – 29.5°.*Nitrile*, 2-O-[β-D-xylopyranosyl-(1→6)-β-D-glucopyranoside]:[82083-98-5]. **Zierinxylloside**C₁₉H₂₅NO₁₁ M 443.407Constit. of the fruit of *Xeranthemum cylindraceum*.*Nitrile*, 2-O-[5-O-[4-β-D-(glucopyranosyloxy)caffeoyl]-β-D-

apiofuranosyl]-1→4)-β-D-xylopyranosyl-(1→6)-β-D-

glucopyranoside]: [129761-12-2]. **Xeranthin**C₃₉H₄₉NO₂₃ M 899.809Constit. of the fruit of *X. cylindraceum*. Powder. [α]_D²⁰ – 88.1° (c, 1.29 in MeOH).**(±)-form**

Mp 131-132°. Has been resolved, but the abs. config. of the parent acid does not appear to be known.

Et ester:C₁₀H₁₂O₄ M 196.202

Mp 104°.

3-*Me ether*, *Et ester*:C₁₁H₁₄O₄ M 210.229Bp₁₄ 169°.*Nitrile*: [53313-95-4].C₈H₇NO₂ M 149.149

Mp 111-112°.

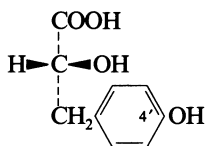
Lévy, J. *et al*, *Bull. Soc. Chim. Fr.*, 1931, **49**, 1721.Finnemore, H. *et al*, *J. Proc. R. Soc. N.S.W.*, 1936, **70**, 135

(Zierin)

Shaw, K.N.F. *et al*, *J. Org. Chem.*, 1956, **21**, 1149 (*synth*)Deljac, A. *et al*, *CA*, 1967, **12**, 181 (*resoln*)Jensen, S.R. *et al*, *Acta Chem. Scand.*, 1973, **27**, 2661 (*isol*)Gmelin, R. *et al*, *Phytochemistry*, 1973, **12**, 457 (*Holocalin*)Schwarzmaier, U., *Chem. Ber.*, 1976, **109**, 3250 (*pmr*, Zierin)Moehrl, H. *et al*, *Pharmazie*, 1980, **35**, 756 (*synth*, Zierin)Huebel, W. *et al*, *Planta Med.*, 1982, **44**, 178 (*Zierinxylloside*)Schwind, P. *et al*, *Phytochemistry*, 1990, **29**, 1903 (*Xeranthin*, Zierinxylloside)

2-Hydroxy-3-(4-hydroxyphenyl)propanoic acid H-10167

α,4-Dihydroxybenzenepropanoic acid, 9CI. 3-(4-Hydroxyphenyl)lactic acid, 8CI
[306-23-0]



$C_9H_{10}O_4$ M 182.176

Constit. of human urine and various plant spp. Metab. of tyrosine in humans. Config. not detd. for most occurrences.

▷ Tumorogenic.

(R)-form [89919-57-3]

Isol. from the heartwood of *Pterocarpus marsupium*. Mp 169-170° (164-165°). $[\alpha]_D^{26} - 19.6^\circ$ (c, 1.3 in H_2O).

(S)-form [23508-35-2]

Metab. of *Ceratocystis* spp.

(±)-form [6482-98-0]

Cryst. Mp 147.5-149° (139-140°).

4'-Me ether: [28030-15-1]. 2-Hydroxy-3-(4-methoxyphenyl)propanoic acid

$C_{10}H_{12}O_4$ M 196.202

Constit. of barley, rye and wheat. Cryst. ($CHCl_3$ /pet. ether) or (EtOAc/pet. ether). Mp 104-105° (88°).

Amide, 4'-Me ether: [105955-69-9]. 2-Hydroxy-3-(4-methoxyphenyl)propanamide. 3-(4-Methoxyphenyl)lactamide

$C_{10}H_{13}NO_3$ M 195.218

Cryst. ($CHCl_3$ /pet. ether). Mp 145°.

Di-Me ether: [87387-83-5]. 2-Methoxy-3-(4-methoxyphenyl)propanoic acid

$C_{11}H_{14}O_4$ M 210.229

Constit. of barley, rye and wheat.

4'-Me ether, Me ester: [55301-58-1].

$C_{11}H_{14}O_4$ M 210.229

Oil. Bp_{0,1} 35°.

Di-Me ether, Me ester:

$C_{12}H_{16}O_4$ M 224.256

Oil. Bp_{0,5} 120°.

Bubl, E.C. *et al*, *J. Am. Chem. Soc.*, 1951, **73**, 4972 (synth)

Holden, J.T. *et al*, *J. Biol. Chem.*, 1951, **191**, 559 (synth)

Buckle, A.L.J. *et al*, *J. Chem. Soc.*, 1954, 3981 (synth)

Matsuura, T. *et al*, *J. Am. Chem. Soc.*, 1959, **81**, 871 (synth)

Stoessl, A., *Biochem. Biophys. Res. Commun.*, 1969, **35**, 186 (isol, synth)

Rauschenbach, M.O. *et al*, *Cancer Res.*, 1975, **35**, 577 (tox)

Danifshesky, S. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 7013 (synth, pmr)

Lohaus, E. *et al*, *Z. Naturforsch., C*, 1983, **38**, 524 (occur)

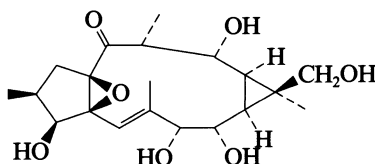
Maurya, R. *et al*, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 179 (isol)

Gowal, H. *et al*, *Helv. Chim. Acta*, 1985, **68**, 2132 (synth)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, HNG700.

19-Hydroxyngol

H-10168



$C_{20}H_{30}O_7$ M 382.453

19-(3-Pyridinecarbonyl), 8-benzoyl, 3,7,12-tri-Ac:

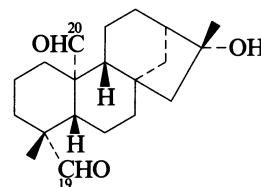
$C_{39}H_{43}NO_{12}$ M 717.768

Constit. of *Euphorbia marginata*.

Branch, S.K. *et al*, *Magn. Reson. Chem.*, 1992, **30**, 632 (isol, pmr, cmr)

16-Hydroxy-19,20-kauranedial

H-10169



$C_{20}H_{30}O_3$ M 318.455

(ent-16β)-form [149249-33-2]

Constit. of *Ryparosa acuminata*. Needles

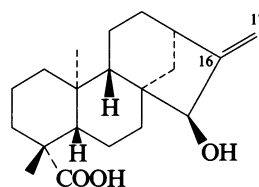
(EtOAc/hexane). Mp 204-206° dec. $[\alpha]_D - 10^\circ$ (c, 0.09 in $CHCl_3$).

Shaari, K. *et al*, *Aust. J. Chem.*, 1993, **46**, 739 (isol, pmr, cmr)

15-Hydroxy-16-kauren-19-oic acid

H-10170

Updated Entry replacing H-02131



(ent-15α)-form

$C_{20}H_{30}O_3$ M 318.455

(ent-15α)-form [6619-95-0]

Constit. of *Phebalium rude* and *Mikania* spp. Cryst. (MeOH aq.). Mp 209-210°. $[\alpha]_D^{20} - 107^\circ$ (c, 1.1 in EtOH).

15-Ac: [6619-97-2]. *Xylopic acid*

$C_{22}H_{32}O_4$ M 360.492

Constit. of *Xylopia aethiopica* and *Eupatorium*

deltoideum. Cryst. (EtOAc). Mp 259-260°. $[\alpha]_D - 144^\circ$ (c, 1.2 in $CHCl_3$).

β-D-Glucopyranosyl ester: [60129-63-7]. *Paniculoside I*

$C_{26}H_{40}O_8$ M 480.597

Constit. of *Stevia paniculata* and *Platycarpha carlinoides*.

Cryst. (MeOH aq.). Mp 134-136°. $[\alpha]_D^{23} - 69.9^\circ$ (c, 0.21 in MeOH).

β-D-Allopyranosyl ester:

$C_{26}H_{40}O_8$ M 480.597

Isol. from *P. carlinoides*.

O-*β-D-Glucopyranoside, β-D-glucopyranosyl ester*: [65606-29-3]. *Paniculoside V. Crispiside A*

$C_{32}H_{50}O_{13}$ M 642.739

Constit. of *Stevia paniculata*, *S. ovata* and *Francoeuria*

crispa. Cryst. (C_6H_6 /EtOAc). Mp 170-172.5°. $[\alpha]_D^{23} + 61^\circ$ (c, 0.2 in MeOH).

Glycoside: Doronicoside D

$C_{24}H_{36}O_{21}$ M 690.773

Isol. from *Doronicum macrophyllum*. Cryst. (MeOH aq.).

Mp 110-118°. $[\alpha]_D - 36.3^\circ$ (c, 1.129 in MeOH). Contains D-Xyl, L-Ara and 2 D-Mann.

Angeloyl: [77399-93-0].

$C_{25}H_{36}O_4$ M 400.557

From *Aspilia parvifolia* and *S.* spp. Gum. Not obt. pure.

Tigloyl: [77399-94-1].

$C_{25}H_{36}O_4$ M 400.557

Isol. from *Aspilia parvifolia* and *Solidago* spp. Gum.
Not obt. pure.

3-Methyl-2-butenyl: [77355-68-1].

$C_{25}H_{36}O_4$ M 400.557

From *S.* spp. Gum. Not obt. pure.

16 ζ ,17-Epoxyde,15-tigloyl: [79435-56-6].

$C_{25}H_{36}O_5$ M 416.556

From *A. parvifolia*. Gum (as Me ester). $[\alpha]_D^{24}$ –49.3° (c, 0.8 in $CHCl_3$) (Me ester).

15-O- α -L-Arabinopyranoside: **Rufoside A**

$C_{25}H_{38}O_7$ M 450.571

Constit. of *Senecio rufus*. Prisms (MeOH). Mp 157-158°.

$[\alpha]_D^{18}$ –84.2° (c, 1 in MeOH).

15-O- α -L-Arabinopyranoside, β -D-glucopyranosyl ester:

Rufoside

$C_{31}H_{48}O_{12}$ M 612.713

Constit. of *S. rufus*. Needles (MeOH). Mp 180-182°.

$[\alpha]_D^{18}$ –75.5° (c, 1 in MeOH).

(ent-15 β)-form [22338-69-8] **Grandiflorolic acid**

Constit. of *Espeletia schultzei*, *E. timotensis*, *E. weddelii*, *Enhydra fluctuans*, *Aralia cordata* and other spp. Shows gibberellin-like activity. Cryst. Mp 216-218°.

Ac: [22343-40-4].

$C_{22}H_{32}O_4$ M 360.492

Constit. of *Espeletia schultzei* and several other spp.

Cryst. Mp 173-174°. $[\alpha]_D^{20}$ –84.9°.

Angeloyl: [32381-03-6].

$C_{25}H_{36}O_4$ M 400.557

Constit. of *Enhydra fluctuans* and a number of other plants. Cryst. Mp 193-195°.

3-Methylbutanoyl: [32381-02-5].

$C_{25}H_{38}O_4$ M 402.573

Constit. of *E. fluctuans* and a number of other plants.

Cryst. Mp 169-170°. $[\alpha]_D$ –74.5° ($CHCl_3$).

Benzoyl: [67664-92-0].

$C_{27}H_{34}O_4$ M 422.563

Isol. from *Mikania* spp. Oil (as Me ester).

Tigloyl: [53586-31-5].

$C_{25}H_{36}O_4$ M 400.557

From *A.*, *Grazielia*, *Wedelia* and others.

3-Methyl-2-butenyl: [53586-30-4].

$C_{25}H_{36}O_4$ M 400.557

Isol. from *Viguiera*, *Ichthyothere* spp. and others.

2-Methylpropenyl: [78853-03-9].

$C_{24}H_{34}O_4$ M 386.530

From *I.*, *V.*, and *Mikania* spp. Gum (as Me ester). $[\alpha]_D^{24}$ –60.3° (c, 1.7 in $CHCl_3$) (Me ester).

2-Methylpropanoyl:

$C_{24}H_{36}O_4$ M 388.546

Isol. from *E. purpurascens*, *Mikania* spp. and others.

Cinnamoyl: [65513-87-3]. **Cinnamoylgrandifloric acid**

$C_{29}H_{36}O_4$ M 448.601

Isol. from *Montanoa pteropoda* and *Mikania* spp. Cryst. (hexane). Mp 211-213°. $[\alpha]_D^{22}$ +70°.

2,3-Epoxy-2-methylbutanoyl: [88664-25-9].

Epoxyangeloxygrandifloric acid

$C_{25}H_{36}O_5$ M 416.556

Isol. from *Helianthus*, *W.* and *Viguiera* spp. Gum (as Me ester).

2,3-Dihydroxy-2-methylbutanoyl: [93888-83-6].

$C_{25}H_{38}O_6$ M 434.572

Isol. from *W.* spp.

2-Methylbutanoyl: [90041-98-8].

$C_{25}H_{38}O_4$ M 402.573

From *V.* spp. Not obt. pure.

16 α ,17-Epoxyde,15-angeloyl: [63898-23-7]. **Perymenic acid**

$C_{25}H_{36}O_5$ M 416.556

Isol. from *Perymenium ecuadorium*, also *Smallanthus fruticosus*, *Wedelia pinetorum* and *Aspilia pluriseta*. Oil (as Me ester). $[\alpha]_D^{24}$ –54° (c, 1.28 in $CHCl_3$) (Me ester).

15-Ketone: [6620-00-4]. **ent-15-Oxo-16-kauren-19-oic acid**

$C_{20}H_{28}O_3$ M 316.439

Isol. from *Pteris longipes* and *Viguiera dentata*. Tablets (C_6H_6 /hexane). Mp 211-213°. $[\alpha]_D^{20}$ –169.0° (c, 1.19 in MeOH).

Cannon, J.R. *et al*, *Aust. J. Chem.*, 1966, **19**, 861.

Ekong, D.E.U. *et al*, *J. Chem. Soc. C*, 1968, 311 (*derivis*)

Brieskorn, C.H. *et al*, *Chem. Ber.*, 1969, **102**, 2621 (*struct*)

Pakrashi, S.C. *et al*, *Indian J. Chem.*, 1971, **9**, 84 (*isol*)

Yamasaki, K. *et al*, *Chem. Pharm. Bull.*, 1977, **25**, 2895 (*derivis*)

Alieva, Sh.A. *et al*, *Khim. Prir. Soedin.*, 1977, **13**, 658; *Chem. Nat.*

Compd. (Engl. Transl.), 546 (*Doronicoside D*)

Bohlmann, F. *et al*, *Phytochemistry*, 1977, **16**, 786; 1978, **17**, 483;

1980, **19**, 2655; 1981, **20**, 522, 751 (*derivis*)

Vichniewski, W. *et al*, *Phytochemistry*, 1977, **16**, 2028

(*Cinnamoylgrandifloric acid*)

Panizo, F.M. *et al*, *An. Quim.*, 1979, **75**, 428 (*isol*)

Murakami, T. *et al*, *Chem. Pharm. Bull.*, 1981, **29**, 657 (*15-Oxo-16-*

kauren-19-oic acid)

Herz, W. *et al*, *Phytochemistry*, 1983, **22**, 2021

(*Epoxyangeloxygrandifloric acid*)

Hutchison, M. *et al*, *J. Chem. Soc., Perkin Trans. I*, 1984, 2363

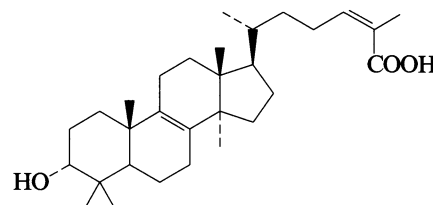
(*cmr*)

Zdero, C. *et al*, *Phytochemistry*, 1989, **28**, 2745 (*allosyl ester*)

Abdel-Mogib, M. *et al*, *Phytochemistry*, 1990, **29**, 2581.

Cheng, D.-L. *et al*, *Phytochemistry*, 1993, **32**, 151 (*Rufososides*)

3-Hydroxylanosta-8,24-dien-26-oic acid H-10171



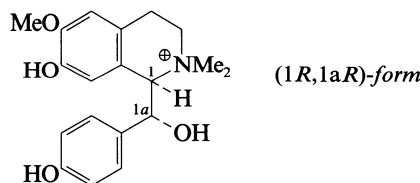
$C_{30}H_{48}O_3$ M 456.707

(3 α ,24 Z)-form [90365-58-5] **Anwuweizic acid**

Constit. of *Schisandra sphenanthera*.

Liu, J. *et al*, *Huaxue Xuebao*, 1984, **42**, 264; *CA*, **101**, 3913q.

1a-Hydroxymagnocurarine H-10172



$C_{19}H_{24}NO_4^+$ M 330.403 (ion)

(1R,1aR)-form

Alkaloid from stems of *Cryptocarya konishii* (Lauraceae).

Perchlorate:

$C_{19}H_{24}ClNO_8$ M 429.853

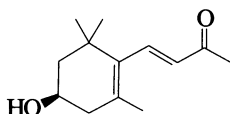
Amorph. solid. Mp 142°. $[\alpha]_D^{24.5}$ +35° (c, 0.50 in MeOH).

Lee, S.-S. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1971 (*isol, uw, ir, pmr, cmr, ms, cd, struct*)

3-Hydroxy-5,7-megastigmadien-9-one

H-10173

Updated Entry replacing H-02201

C₁₃H₂₀O₂ M 208.300**(3R,7E)-form**

3-Hydroxy-β-ionone

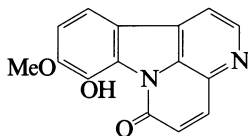
Constit. of *Phaseolus vulgaris*. Oil. [α]_D²² – 140.5° (c, 0.1 in CHCl₃).2-Methylpropanoyl: [37704-28-2]. **Quiesone**C₁₇H₂₆O₃ M 278.391Isol. from *Peronospora tabacina*. Germination inhibitor. Oil.

7α,8α-Epoxyde, 3-O-β-D-glucopyranoside: [108906-51-0].

Icariside B₂C₁₉H₃₀O₈ M 386.441Constit. of *Epidermium grandiflorum* var.*thumbergianum*. Needles (MeOH/EtOAc). Mp 172.5-174°. [α]_D²⁵ – 102.1° (c, 0.97 in MeOH).Leppik, R.A. *et al*, *Phytochemistry*, 1972, **11**, 2055 (*isol*)Mori, K. *et al*, *Agric. Biol. Chem.*, 1973, **37**, 2899 (*synth*)Miyase, T. *et al*, *Chem. Pharm. Bull.*, 1987, **35**, 1109 (*Icariside B₂*)Kato-Noguchi, H. *et al*, *Phytochemistry*, 1993, **33**, 553 (*isol*, *pmr*, *cmr*)**8-Hydroxy-9-methoxycanthin-6-one**

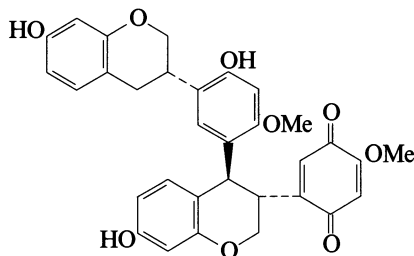
H-10174

[143257-71-0]

C₁₅H₁₀N₂O₃ M 266.256Alkaloid from the stem bark of *Picrolemma granatensis* (Simaroubaceae). Yellow needles. Mp 198-201°.Rodrigues Fo, E. *et al*, *Phytochemistry*, 1992, **31**, 2499 (*isol*, *w*, *ir*, *pmr*, *cmr*, *ms*, *struct*)**7-Hydroxy-4'-methoxyisoflavan-2',5'-quinone(4→5')-2',7-dihydroxy-4'-methoxyisoflavan**

H-10175

2-[7-Hydroxy-3-[4-hydroxy-5-(7-hydroxychroman-3-yl)-2-methoxyphenyl]chroman-3-yl]-4-methoxy-1,4-benzoquinone [100478-03-3]

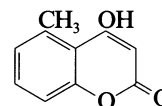
C₃₂H₂₈O₉ M 556.568Constit. of the heartwood of *Dalbergia odorifera*. Yellow powder. [α]_D¹⁸ – 123.2° (c, 0.50 in MeOH).Yahara, S. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 979 (*isol*)**4-Hydroxy-5-methyl-2H-1-benzopyran-2-one, 9CI**

H-10176

Updated Entry replacing H-02309

4-Hydroxy-5-methylcoumarin

[24631-87-6]

C₁₀H₈O₃ M 176.171Found in *Gerbera anandria* and as various esters in *Mutisia orbignyana*. Cryst. (EtOH aq.). Mp 233-234°.O-β-D-Glucopyranoside: [76474-54-9]. **Gerberinside**C₁₆H₁₈O₈ M 338.313Constit. of *Ethulia conyzoides*, *Gerbera jamesonii*, *G. anandria*, *Leibnitzia anandria* and *Onoseris gnaphaloides*. Cryst. Mp 153-154° (150°). [α]_D²¹ – 109° (MeOH), [α]_D²⁰ – 57.2° (c, 0.25 in Py).

O-Cellobioside:

C₂₂H₂₈O₁₃ M 500.455Constit. of *G. anandria*. Cryst. Mp 217-219°. [α]_D²¹ – 94° (MeOH).

O-Gentiobioside:

C₂₂H₂₈O₁₃ M 500.455Constit. of *G. anandria*. Cryst. Mp 155-157°. [α]_D²¹ – 80° (MeOH).

O-[α-L-Rhamnopyranosyl-(1→6)-β-D-glucopyranoside]:

[100360-71-2]. 4-Rutinosyloxy-5-methylcoumarin

C₂₂H₂₈O₁₂ M 484.456Constit. of *G. jamesonii*. Needles (H₂O). Mp 240-241° dec. [α]_D²² – 79.4° (c, 0.2 in Py).*Me ether*: [53091-74-0]. 4-Methoxy-5-methyl-2H-1-benzopyran-2-one. 4-Methoxy-5-methylcoumarin.**Ekersenin**. *Pereflorin*C₁₁H₁₀O₃ M 190.198Occurs in *Perezia multiflora* and *Ekebergia senegalensis*. Cryst. (Et₂O/pet. ether). Mp 165°. The prod. from *E. senegalensis* was originally incorr. descr. as the 8-hydroxy isomer.O-(3-Methyl-2-butenyl): [41753-51-9]. 5-Methyl-4-prenyloxycoumarin. **Gerberacoumarin**C₁₅H₁₆O₃ M 244.290Found in roots of *G. crocea*. Cryst. (Et₂O/pet. ether). Mp 99°.

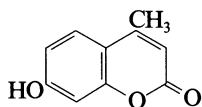
O-(6-Oxo-3-methyl-2,4-hexadienyl) (E,E-) : 4-(5-Formyl-3-methyl-2,4-pentadienyl)-5-methylcoumarin

C₁₇H₁₆O₄ M 284.311Constit. of *M. orbignyana*. Oil.Matsui, K. *et al*, *Nippon Kagaku Zasshi*, 1957, **78**, 517; *CA*, **53**, 5257 (*synth*)Bohlmann, F. *et al*, *Chem. Ber.*, 1973, **106**, 382 (*Gerberacoumarin*)Venturella, P. *et al*, *Heterocycles*, 1974, **2**, 345 (*synth*)Bohlmann, F. *et al*, *Phytochemistry*, 1977, **16**, 239 (*isol*, *deriv*)Ahluwalia, V.K. *et al*, *Indian J. Chem., Sect. B*, 1978, **16**, 436 (*synth*)Okogun, J.I. *et al*, *Tetrahedron*, 1978, **34**, 1221 (*isol*, *deriv*)Nagumo, S. *et al*, *Chem. Pharm. Bull.*, 1985, **33**, 4803 (*Gerberinside*)Chatterjea, J.N. *et al*, *Indian J. Chem., Sect. B*, 1986, **25**, 796 (*synth*)Gu, L.-H. *et al*, *Yaoxue Xuebao*, 1987, **22**, 272 (*glycosides*)Zdero, C. *et al*, *Phytochemistry*, 1988, **27**, 891 (*deriv*)

7-Hydroxy-4-methyl-2H-1-benzopyran-2-one, 9CI H-10177

7-Hydroxy-4-methylcoumarin. 4-Methylumbelliferone. Coumarin 4. *Hymecromone*, INN, JAN, USAN. *Cantabiline*. BMU. Pilot 447. *Hymechromone*. Other proprietary names

[90-33-5]



$C_{10}H_8O_3$ M 176.171

Isol. from young branches of *Dalbergia volubilis* and from *Eupatorium pauciflorum*. Used in tunable lasers. Choleric, spasmolytic and sunscreen agent. Used as a 1% soln. in aq. EtOH for detn. of Al; fluorescence acid-base indicator (pH > 7.0, blue fluorescence). Needles (EtOH). Mp 194-195°. pK_a 7.80 (25°). Phototautomerises.

▷ GN7000000.

Ac: [2747-05-9].

$C_{12}H_{10}O_4$ M 218.209

Isol. from *Trigonella foenumgraecum*. Cryst. Mp 153-154° (150-151°).

Benzoyl: [66185-72-6].

$C_{17}H_{12}O_4$ M 280.279

Needles (EtOH). Mp 159-160°.

Dihydrogen phosphate: [3368-04-5].

$C_{10}H_9O_6P$ M 256.151

Substrate for phosphatase. Cryst. (Et₂O). Mp 214-216°.

Me ether: [2555-28-4]. 7-Methoxy-4-methyl-2H-1-benzopyran-4-one. 7-Methoxy-4-methylcoumarin

$C_{11}H_{10}O_3$ M 190.198

Needles (EtOH). Mp 159°.

[5980-33-6, 103764-33-6]

v. Pechmann, H. *et al*, *Ber.*, 1883, **16**, 2122 (*synth*)

Org. Synth., *Coll. Vol.*, 3, 1955, 282 (*synth*)

Fernley, H.N. *et al*, *Biochem. J.*, 1965, **97**, 95; 1966, **99**, 39; 1967, **102**, 48 (*synth*, *phosphate*)

Aguila, J.F., *Talanta*, 1967, **14**, 1195 (*synth*, *detn*, *Al*)

Kappe, T. *et al*, *Org. Prep. Proced.*, 1969, **1**, 61 (*synth*)

White, I.N.H. *et al*, *Biochim. Biophys. Acta*, 1971, **229**, 193 (*use*, *phosphate*)

Bishop, E., *Indicators*, Pergamon, Oxford, 1972, 695 (*use*, *indicator*)

Trozzolo, A.M. *et al*, *J. Am. Chem. Soc.*, 1974, **96**, 4699 (*tautom*)

Shimizu, S. *et al*, *Acta Crystallogr.*, *Sect. B*, 1975, **31**, 1287 (*cryst struct*)

Sojka, S.A., *J. Org. Chem.*, 1975, **40**, 1175 (*cmr*)

Bhardwaj, D.K. *et al*, *Indian J. Chem.*, *Sect. B*, 1977, **15**, 94 (*isol*, *acetate*)

Chawla, H.M. *et al*, *Indian J. Chem.*, *Sect. B*, 1977, **15**, 492 (*isol*)

Krejcoves, J. *et al*, *Collect. Czech. Chem. Commun.*, 1979, **44**, 2211 (*synth*)

Kauffman, J.M., *Appl. Opt.*, 1980, **19**, 3431 (*use*)

Sankar, S.S. *et al*, *Org. Magn. Reson.*, 1982, **19**, 222 (*cmr*)

Taylor, R.T. *et al*, *Synthesis*, 1982, 672 (*synth*)

Martindale, *The Extra Pharmacopoeia*, 28th/29th Ed.,

Pharmaceutical Press, London, 1982/1989, 3725.

Chaudhari, D.D., *Chem. Ind. (London)*, 1983, **24**, 568 (*synth*)

Sinha, P.K. *et al*, *Histochem. J.*, 1984, **16**, 334 (*use*, *phosphate*)

Anthony, F.A. *et al*, *Anal. Biochem.*, 1986, **155**, 103 (*use*, *phosphate*)

Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th Ed., Akademie-Verlag, Berlin, 1987, 1420.

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, HMB000, MKP500.

2-Hydroxy-6-methylbenzyl alcohol H-10178

2-Hydroxy-6-methylbenzenemethanol. 2-Hydroxymethyl-3-methylphenol

$C_8H_{10}O_2$ M 138.166

Consist. of *Acourtiana nana*. Cryst. Mp 107° (83-84°).

Dunning, B. *et al*, *J. Am. Chem. Soc.*, 1936, **58**, 1565 (*synth*)

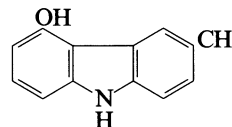
Bruce, J.M. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1974, 288 (*synth*, *ir*, *pmr*)

Nagata, W. *et al*, *Synthesis*, 1979, 365 (*synth*)

Zdero, C. *et al*, *Phytochemistry*, 1991, **30**, 2695 (*isol*, *pmr*, *cmr*)

5-Hydroxy-3-methyl-9H-carbazole H-10179

6-Methyl-9H-carbazol-4-ol



$C_{13}H_{11}NO$ M 197.236

Me ether: [143438-96-4]. 5-Methoxy-3-methyl-9H-carbazole, 9CI. *Glycozolicine*

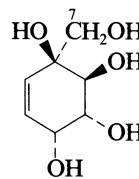
$C_{14}H_{13}NO$ M 211.263

Alkaloid from roots of *Glycosmis pentaphylla* (Rutaceae). Cryst. (C_6H_6 /pet. ether). Mp 135°.

Jash, S.S. *et al*, *Phytochemistry*, 1992, **31**, 2503.

1-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol H-10180

1-Hydroxymethylconduritol



(1S,2S,3R,4R)-form

$C_7H_{12}O_5$ M 176.169

(1S,2S,3R,4R)-form

1-Hydroxymethylconduritol E

4,7-Dibenzoyl: [134476-91-8]. *Piperenol B*

$C_{21}H_{20}O_7$ M 384.385

Isol. from *Piper cubeb*. Semi-solid. $[\alpha]_D + 50^\circ$ (c, 1 in MeOH).

(1S,2S,3R,4S)-form

3,7-Dibenzoyl: [120160-94-3].

$C_{21}H_{20}O_7$ M 384.385

Isol. from the stem bark of *Monanthes buschananii*. Needles (EtOAc/ pet. ether). Mp 178-183°. $[\alpha]_D - 100^\circ$ (c, 0.24 in EtOH).

(1RS,2RS,3SR,4RS)-form

3,4,7-Tri-Ac: [86861-69-0].

Cryst. (EtOH). Mp 100.5-102°.

2,3,4,7-Tetra-Ac: [86157-99-5].

Syrup.

Penta-Ac: [81692-25-3].

Syrup.

(1RS,2SR,3RS,4SR)-form

Penta-Ac: [109958-70-5].

Cryst. (EtOH). Mp 97.5-98.5°.

Ogawa, S. *et al*, *Bull. Chem. Soc. Jpn.*, 1983, **56**, 505, 1161; 1990, **63**, 1549 (*synth*, *derivs*)

Ogawa, S. *et al*, *Carbohydr. Res.*, 1986, **156**, 273 (*synth*, *derivs*)

Liang, G.Y. *et al*, *Phytochemistry*, 1988, **27**, 3857 (*isol*, *derivs*)

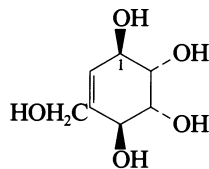
Taneja, S.C. *et al*, *Phytochemistry*, 1991, **30**, 871 (*Piperenol B*)

5-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol, 9CI

H-10181

Updated Entry replacing H-02355

3,4,5,6-Tetrahydroxy-1-cyclohexene-1-methanol

(1*R*,2*S*,3*R*,4*S*)-formC₇H₁₂O₅ M 176.169**(1*R*,2*S*,3*R*,4*S*)-form***1',3*-Dibenzoyl: [134476-89-4]. **Piperenol A**C₂₁H₂₀O₇ M 384.385Isol. from *Piper clarkii* and *P. cubeb*. Cryst.(EtOAc/hexane). Mp 48-49°. [α]_D +14.6° (c, 0.5 in MeOH).*1*-Ac, *1',3*-dibenzoyl: [134476-90-7]. **Acetyl piperenol A**C₂₃H₂₂O₈ M 426.422Isol. from *P. clarkii*. Semi-solid. [α]_D +12.0° (c, 0.5 in MeOH).**(1*S*,2*S*,3*S*,4*R*)-form** [111136-25-5] **Streptol**Isol. from *Streptomyces* sp. 1409. Plant growth regulator.**(1*R*S,2*R*S,3*R*S,4*S*R)-form** [86195-44-0]

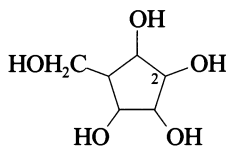
Cryst. (EtOH). Mp 139.5-141°.

(1*R*S,2*S*R,3*R*S,4*S*R)-form [86195-45-1]

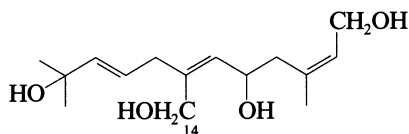
Cryst. (EtOH aq.). Mp 150.5-151.5°.

Toyokuni, T. *et al*, *Bull. Chem. Soc. Jpn.*, 1983, **56**, 505 (*synth*)Isogai, A. *et al*, *Agric. Biol. Chem.*, 1987, **51**, 2277 (*isol, struct*)Taneja, S.C. *et al*, *Phytochemistry*, 1991, **30**, 871 (*Piperenol A*)**5-(Hydroxymethyl)-1,2,3,4-cyclopentanetrol**

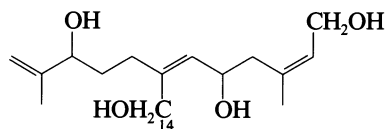
H-10182

C₆H₁₂O₅ M 164.158*2*-Me ether: [142878-30-6]. 3-(Hydroxymethyl)-5-methoxy-1,2,4-cyclopentanetriol, 9CI. **Salpantiol**C₇H₁₄O₅ M 178.185Constit. of the flowers of *Salpianthus arenarius*. Exhibits parasymphathomimetic activity.Perez-Gutierrez, R.M. *et al*, *Pharm. Acta Helv.*, 1992, **67**, 156.**7-Hydroxymethyl-3,11-dimethyl-2,6,9-dodecatriene-1,5,11-triol**

H-10183

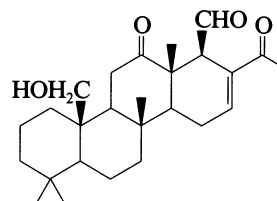
C₁₅H₂₆O₄ M 270.368*1,5,14*-Tri-Ac:C₂₁H₃₂O₇ M 396.480Constit. of *Tanacetum densum* ssp. *sivasicum*. Oil.Gören, N., *Phytochemistry*, 1993, **34**, 743 (*isol, pmr, cmr*)**7-Hydroxymethyl-3,11-dimethyl-2,6,11-dodecatriene-1,5,10-triol**

H-10184

C₁₅H₂₆O₄ M 270.368*1,5,14*-Tri-Ac:C₂₁H₃₂O₇ M 396.480Constit. of *Tanacetum densum* ssp. *sivasicum*. Oil.Gören, N., *Phytochemistry*, 1993, **34**, 743 (*isol, pmr, cmr*)**22-Hydroxy-24-methyl-12,24-dioxo-16-scalaren-25-al**

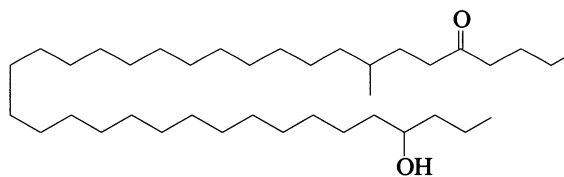
H-10185

[75587-67-6]

C₂₆H₃₈O₄ M 414.584Constit. of a *Phyllospongia* sp. Cryst. (EtOAc/pet. ether).Mp 204° dec. [α]_D²¹ +110° (c, 1 in CHCl₃).*Ac*: [75587-68-7].C₂₈H₄₀O₅ M 456.621Constit. of a *P.* sp. Cryst. (EtOAc/pet. ether). Mp193.5-194.1°. [α]_D +95.4° (c, 1.27 in CHCl₃).Kazlauskas, R. *et al*, *Aust. J. Chem.*, 1980, **33**, 1783 (*isol, pmr, cryst struct*)**34-Hydroxy-8-methyl-5-heptatriacontanone, 9CI**

H-10186

[133956-31-7]

C₃₈H₇₆O₂ M 565.017Constit. of the leaves of *Adenocalymma alliaceum*. Cryst.

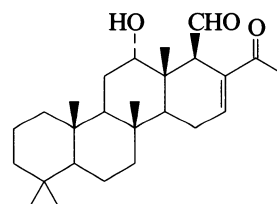
(MeOH). Mp 91-92°.

Ac: [133956-33-9].

Mp 83-84°.

Misra, T.N. *et al*, *Phytochemistry*, 1991, **30**, 541 (*isol*)**12-Hydroxy-24-methyl-24-oxo-16-scalaren-25-al**

H-10187



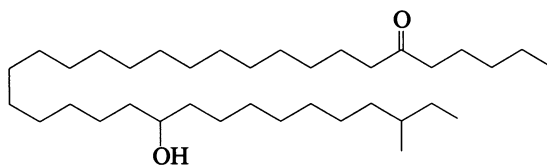
C₂₆H₄₀O₃ M 400.600**12 α -form**

Ac: [75605-86-6].

C₂₈H₄₂O₄ M 442.637Constit. of a *Phyllospongia* sp. Unstable yellow form.[α]_D + 32° (c, 0.35 in MeOH).**12 β -form** [75795-89-0]3-Hydroxybutanoyl: [75605-85-5]. **Dendalone**C₃₀H₄₆O₅ M 486.690Constit. of a *P.* sp. Antiinflammatory. Glass. [α]_D + 12° (c, 0.4 in CHCl₃).Buckle, P.J. *et al*, *Agents Actions*, 1980, **10**, 361 (*pharmacol*)Kazlauskas, R. *et al*, *Aust. J. Chem.*, 1980, **33**, 1783 (*isol, pmr*)**25-Hydroxy-33-methyl-6-pentatriacontanone**

H-10188

[129355-87-9]

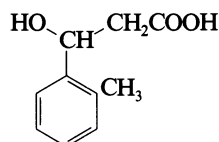
C₃₆H₇₂O₂ M 536.964Constit. of the rhizomes of *Curculigo orchioides*. Cryst. (C₆H₆). Mp 92°.

2,4-Dinitrophenylhydrazone: [129355-88-0].

Cryst. (MeOH). Mp 99-101°.

Mehta, B.K. *et al*, *Indian J. Chem., Sect. B*, 1990, **29**, 493 (*isol, pmr*)**3-Hydroxy-3-(2-methylphenyl)propanoic acid**

H-10189

 β -Hydroxy-2-methylbenzenepropanoic acidC₁₀H₁₂O₃ M 180.203**(\pm)-form**

Et ester: [70200-17-8]. U 89901. Antibiotic U 89901

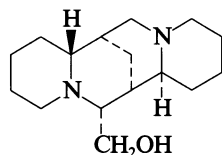
C₁₂H₁₆O₃ M 208.257Bp₅ 145°.

Amide: [146669-24-1]. 3-Hydroxy-3-(2-methylphenyl)propanamide. U 77864. Antibiotic U 77864

C₁₀H₁₃NO₂ M 179.218Prod. by *Streptomyces griseoluteus*. Exhibits antitumour props. Cryst. (MeOH). Mp 190-195°.Ayi, A.I. *et al*, *Tetrahedron Lett.*, 1978, 4507 (*synth*)Harper, D.E. *et al*, *J. Antibiot.*, 1992, **45**, 1827 (U 77864)**10-Hydroxymethylsparteine**

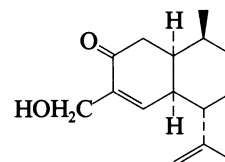
H-10190

[139112-20-2]

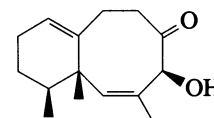
C₁₆H₂₈N₂O M 264.410Constit. of *Genista sessilifolia* (Leguminosae). Mp 168-170° (as picrate).Nasution, M.P. *et al*, *Tetrahedron Lett.*, 1991, **32**, 5915.**15-Hydroxy-4,11-muurooladien-3-one**

H-10191

[149507-88-0]

C₁₅H₂₂O₂ M 234.338Constit. of *Pteridium esculentum*. Oil. [α]_D + 13° (c, 1 in MeOH).Tanaka, N. *et al*, *Phytochemistry*, 1993, **32**, 1037 (*isol, pmr, cmr*)**4-Hydroxy-2,8-neolemnadien-5-one**

H-10192

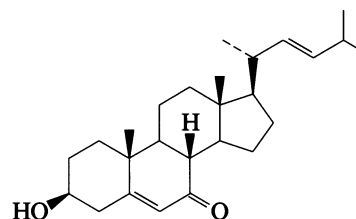
C₁₅H₂₂O₂ M 234.338**4 β -form**

Ac: [148371-04-4].

C₁₇H₂₄O₃ M 276.375Constit. of *Lemnalia africana*. Oil. [α]_D + 441° (c, 0.2 in CHCl₃). Related to Neolemane, N-00220.Jurek, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 508 (*isol, pmr, cmr*)**3-Hydroxy-24-norcholesta-5,22-dien-7-one**

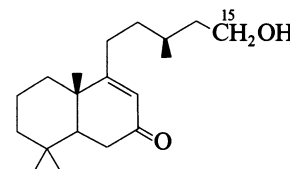
H-10193

3-Hydroxy-26,27-dinorergosta-5,22-dien-7-one

C₂₆H₄₀O₂ M 384.601**(3 β ,22E)-form** [145075-01-0]Constit. of *Cliona copiosa*.Notaro, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1588 (*isol, pmr, cmr*)**15-Hydroxy-17-nor-8-labden-7-one**

H-10194

Updated Entry replacing H-02513

C₁₉H₃₂O₂ M 292.461

13S-form [108657-51-8] *Havardiol*

Constit. of *Grindelia havardii*. Oil. $[\alpha]_D^{25} + 22.4^\circ$ (c, 0.3 in CHCl_3).

15-Carboxylic acid: [108657-50-7]. **17-Nor-7-oxo-8-labden-15-oic acid. Havardic acid F**

$\text{C}_{19}\text{H}_{30}\text{O}_3$ M 306.444

From *G. havardii*. Cryst. (as Me ester). Mp 82-83° (Me ester). $[\alpha]_D^{25} + 31.3^\circ$ (c, 0.5 in CHCl_3) (Me ester).

13ξ-form

Ac: [147743-15-5]. **15-Acetoxy-17-nor-8-labden-7-one**

$\text{C}_{21}\text{H}_{34}\text{O}_3$ M 334.498

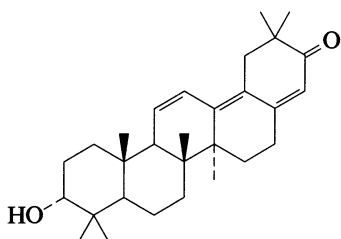
Constit. of *Halimium verticillatum*. Oil. $[\alpha]_D^{22} + 29.1^\circ$ (c, 0.8 in CHCl_3).

Jolad, S.D. *et al*, *Phytochemistry*, 1987, **26**, 483.

Urones, J.G. *et al*, *Phytochemistry*, 1993, **32**, 401 (*isol*, *pmr*, *cmr*)

3-Hydroxy-28-nor-11,13(18),17(22)-oleanatrien-21-one

H-10195



$\text{C}_{29}\text{H}_{42}\text{O}_2$ M 422.650

3α-form [72938-20-6] *Papyriogenin I*

Constit. of *Tetrapanax papyrifera*. Cryst. Mp 255-257°.

3-Ketone: [72933-71-2]. **28-Nor-11,13(18),17(22)-oleanatriene-3,21-dione**

$\text{C}_{29}\text{H}_{40}\text{O}_2$ M 420.634

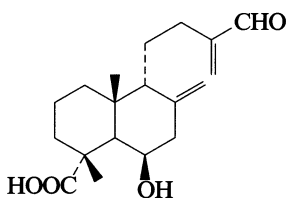
Constit. of *T. papyrifera*. Cryst. Mp 127-131°.

Amagaya, S. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1979, 2044 (*synth*)

Amagaya, S. *et al*, *CA*, 1980, **92**, 152980g (*isol*)

6-Hydroxy-15-nor-14-oxo-8(17),13(16)-labdadien-18-oic acid

H-10196



$\text{C}_{19}\text{H}_{28}\text{O}_4$ M 320.428

(6β,9βH)-form

6-Benzoyl: [116425-28-6]. **Scoparic acid C**

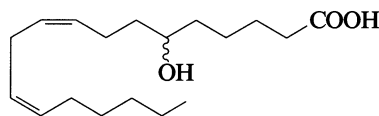
$\text{C}_{26}\text{H}_{32}\text{O}_5$ M 424.536

Constit. of *Scoparia dulcis*. Amorph. powder. $[\alpha]_D^{22} - 13.9^\circ$ (c, 0.69 in CHCl_3).

Hayashi, T. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1748 (*isol*, *pmr*, *cmr*)

6-Hydroxy-9,12-octadecadienoic acid

H-10197



$\text{C}_{18}\text{H}_{32}\text{O}_3$ M 296.449

(9Z,12Z)-form

6-Hydroxylinoleic acid

6-Ac: [137052-51-8]. **6-Acetoxylinoleic acid**

$\text{C}_{20}\text{H}_{34}\text{O}_4$ M 338.486

Isol. from the marine alga *Spatoglossum pacificum*.

Pollen growth inhibitor. $[\alpha]_D^{23} - 1.04^\circ$ (c, 0.5 in CHCl_3).

C-6 config. not determined.

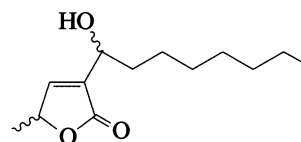
Tazaki, H. *et al*, *Agric. Biol. Chem.*, 1991, **55**, 2149 (*isol*)

3-(1-Hydroxyoctyl)-5-methyl-2(5H)-furanone, 9CI

H-10198

Acaterin

[144398-20-9]



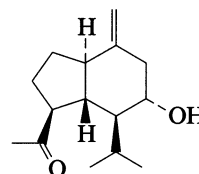
$\text{C}_{13}\text{H}_{22}\text{O}_3$ M 226.315

Prod. by *Pseudomonas* sp. A92. Inhibitor acyl-CoA: cholesterol acyltransferase. Light brown oil.

Naganuma, S. *et al*, *J. Antibiot.*, 1992, **45**, 1217 (*isol*, *cmr*, *struct*, *props*)

8-Hydroxy-10(14)-oplopen-4-one

H-10199



$\text{C}_{15}\text{H}_{24}\text{O}_2$ M 236.353

8α-form

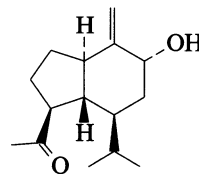
Constit. of *Artemisia sieberi*. Needles (Et_2O /hexane).

Mp 147-148°. $[\alpha]_D + 13.5^\circ$ (c, 1.1 in CHCl_3).

Marco, J.A. *et al*, *Phytochemistry*, 1993, **34**, 1061 (*isol*, *pmr*, *cmr*)

9-Hydroxy-10(14)-oplopen-4-one

H-10200



$\text{C}_{15}\text{H}_{24}\text{O}_2$ M 236.353

9α-form [147545-38-8] *Tuberonone*

Constit. of *Solanum tuberosum*. $[\alpha]_D^{20} - 33.1^\circ$ (c, 0.048 in MeOH).

9β-form

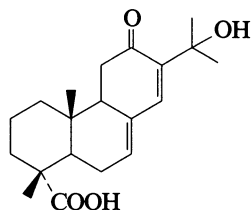
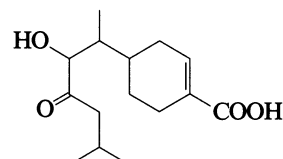
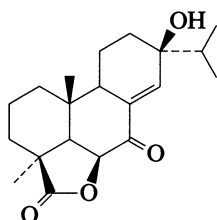
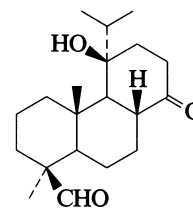
Constit. of *Artemisia sieberi*. Oil. $[\alpha]_D - 11.5^\circ$ (c, 0.9 in CHCl_3).

Matsuura, H. *et al*, *Biosci., Biotechnol., Biochem.*, 1992, **56**, 1890 (*isol*, *pmr*, *cmr*)

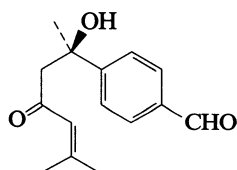
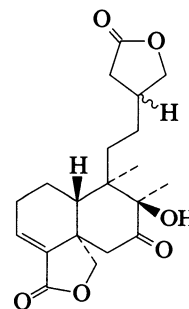
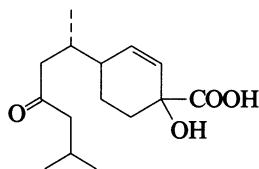
Marco, J.A. *et al*, *Phytochemistry*, 1993, **34**, 1061 (*isol*, *pmr*, *cmr*)

15-Hydroxy-12-oxo-7,13-abietadien-18-oic acid **H-10201**

[151480-67-0]

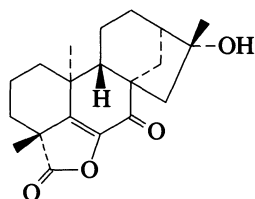
 $C_{20}H_{28}O_4$ M 332.439Constit. of *Pinus massoniana*. Cryst. (EtOAc/hexane). Mp 175-180°.Cheung, H.T.A. *et al*, *Tetrahedron*, 1993, **49**, 7903 (*isol*, *pmr*, *cmr*)Constit. of *Abies sachalinensis*. Pale yellow oil. $[\alpha]_D^{26} + 70^\circ$ (c, 0.45 in EtOH).Kawai, K. *et al*, *Phytochemistry*, 1993, **32**, 1163 (*isol*, *pmr*, *cmr*)**8-Hydroxy-9-oxo-2-bisabolen-15-oic acid** **H-10205** $C_{15}H_{24}O_4$ M 268.352*Me ester*: [149537-81-5]. $C_{16}H_{26}O_4$ M 282.379Constit. of *Abies sachalinensis*. Pale yellow oil. $[\alpha]_D^{28} + 29^\circ$ (c, 0.2 in EtOH).Kawai, K. *et al*, *Phytochemistry*, 1993, **32**, 1163 (*isol*, *pmr*, *cmr*)**13-Hydroxy-7-oxo-8(14)-abieten-19,6-olide** **H-10202** $C_{20}H_{28}O_4$ M 332.439**(6β,13β)-form** [151484-86-5] *Juniperolide*Constit. of *Juniperus chinensis*. Cryst.(EtOAc/C₆H₆/Et₂O/hexane). Mp 191.5-193°. $[\alpha]_D^{25} + 8.5^\circ$ (c, 3.2 in MeOH).Fang, J.-M. *et al*, *Phytochemistry*, 1993, **33**, 1169 (*isol*, *pmr*, *cmr*, *cryst struct*)**11-Hydroxy-14-oxo-19-chinanal** **H-10206** $C_{20}H_{32}O_3$ M 320.471**11β-form** [151484-90-1] *Chinanoxal*Constit. of *Juniperus chinensis*. Solid.Fang, J.-M. *et al*, *Phytochemistry*, 1993, **33**, 1169 (*isol*, *pmr*, *cmr*, *cryst struct*)**7-Hydroxy-9-oxo-1,3,5,10-bisabolatetraen-15-al** **H-10203***Peniophoral*

[145904-72-9]

 $C_{15}H_{18}O_3$ M 246.305Metab. of *Peniophora polygonia*. Oil. $[\alpha]_D^{21} + 32.6^\circ$ (c, 0.23 in MeOH).Ayer, W.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 85 (*isol*, *pmr*, *cmr*)**8-Hydroxy-7-oxo-3-clerodene-15,16:18,19-diolide** **H-10207** $C_{20}H_{26}O_6$ M 362.422**(ent-8α,13ξ)-form**Constit. of *Baccharis articulata*. Prisms. Mp 156-158°. $[\alpha]_D^{25} - 17.5^\circ$ (c, 0.6 in CHCl₃).Dai, J. *et al*, *Phytochemistry*, 1993, **34**, 1087 (*isol*, *pmr*, *cmr*)**3-Hydroxy-9-oxo-1-bisabolen-15-oic acid** **H-10204** $C_{15}H_{24}O_4$ M 268.352*Me ester*: [149537-82-6]. $C_{16}H_{26}O_4$ M 282.379

16-Hydroxy-7-oxo-5-kauren-19,6-olide

H-10208

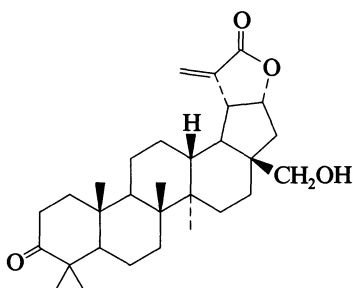


$C_{20}H_{26}O_4$ M 330.423
(*ent*-16 β)-form

Ac: [149471-14-7]. *Stevionolide* $C_{22}H_{28}O_5$ M 372.460Constit. of *Stevia lucida*. Needles (CHCl₃). Mp 226-227°.[α]_D -18.3° (c, 0.18 in CHCl₃).Amaro-Luis, J.M. *et al*, *Phytochemistry*, 1993, 32, 1611 (*isol*, *pmr*, *cmr*)

28-Hydroxy-3-oxo-20(29)-lupen-30,21-olide

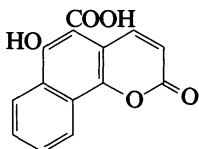
H-10209

 $C_{30}H_{44}O_4$ M 468.67521 α -form*Ochraceolide E*Constit. of *Kokoona ochracea*. Cryst. (CHCl₃). Mp 233-235°.[α]_D²⁵ +29° (c, 0.1 in MeOH).Ngassapa, O. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, 56, 1676 (*isol*, *pmr*, *cmr*)

6-Hydroxy-2-oxo-2H-naphtho[1,2-b]pyran-5-carboxylic acid

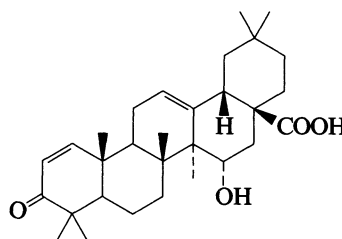
H-10210

5-Carboxy-6-hydroxy-7,8-benzocoumarin

 $C_{14}H_8O_5$ M 256.214Me ester: [142182-54-5]. *Rubilactone* $C_{15}H_{10}O_5$ M 270.241Isol. from the roots of *Rubia cordifolia*.Hua, H.M. *et al*, *Yaoxue Xuebao*, 1992, 27, 279; *CA*, 117, 44582.

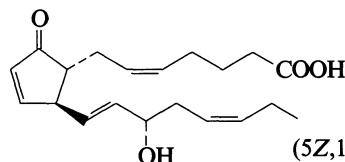
15-Hydroxy-3-oxooleana-1,12-dien-28-oic acid

H-10211

 $C_{30}H_{44}O_4$ M 468.67515 α -form [149260-89-9] *Glomeric acid*Constit. of *Pfaffia glomerata*. Needles. Mp 264-266°.[α]_D +74° (c, 0.5 in CHCl₃).Shiobara, Y. *et al*, *Phytochemistry*, 1993, 32, 1527 (*isol*, *pmr*, *cmr*)

15-Hydroxy-9-oxo-5,10,13,17-prostatetraenoic acid

H-10212



(5Z,13E,15S,17Z)-form

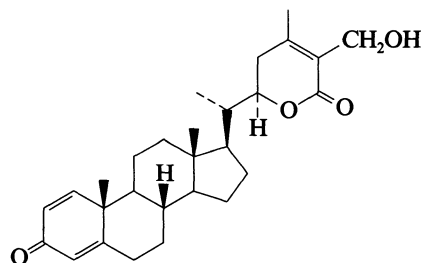
 $C_{20}H_{28}O_4$ M 332.439(5Z,13E,15S,17Z)-form [36614-31-0] *Prostaglandin A₃*

Isol. from seminal fluid of sheep.

Ger. Pat., 2 314 519, (1973); *CA*, 80, 595645 (*isom*)Schevchenko, V.P. *et al*, *J. Labelled Compd. Radiopharm.*, 1989, 27, 1177 (*synth*)

27-Hydroxy-3-oxowitha-1,4,24-trienolide

H-10213

 $C_{28}H_{38}O_4$ M 438.606(22R)-form [150417-74-6] *Withasomidienone*Constit. of *Withania somnifera*. [α]_D²⁵ +13.2° (c, 0.075 in MeOH).Att-ur-Rahman, *et al*, *J. Nat. Prod. (Lloydia)*, 1993, 56, 1000 (*isol*, *pmr*, *nmr*)

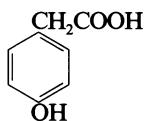
43-Hydroxy-2,44-pentatetracontapentaenediynoic acid

H-10214

 $C_{45}H_{72}O_3$ M 661.062Me ester: [128646-24-2]. *Petroformyne B* $C_{46}H_{74}O_8$ M 755.086Constit. of the sponge *Petrosia ficiformis*. Posn. of ethylenic groups not determined.Cimino, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, 53, 345.

4-Hydroxyphenylacetic acid**H-10215**

4-Hydroxybenzeneacetic acid, 9CI. *p*-Hydroxy- α -toluic acid
[156-38-7]



$C_8H_8O_3$ M 152.149

Constit. of *Melilotus officinalis*. Needles (H_2O). Sol. EtOH, Et_2O , hot H_2O . Mp 148-150°.

▷ AI2680000.

K salt: [83053-47-8].

Powdery solid. Mp > 300°.

Amide: [17194-82-0].

$C_8H_9NO_2$ M 151.165

Leaflets (H_2O). Mp 175°.

Nitrile: [14191-95-8]. 4-Hydroxybenzeneacetonitrile. *p*-

Hydroxybenzyl cyanide. 4-(Cyanomethyl)phenol

C_8H_7NO M 133.149

Isol. from *Brassica alba* as a dec. product of Sinalbin.

Needles (H_2O). Mp 72°. Bp 330°.

▷ AM0530000.

Et ether: [4919-33-9]. 4-Ethoxyphenylacetic acid

$C_{10}H_{12}O_3$ M 180.203

Leaflets (H_2O). Mp 88-89°.

Looker, J.H., *J. Org. Chem.*, 1954, **19**, 784 (*synth*)

Kawakishi, S. *et al*, *Agric. Biol. Chem.*, 1967, **7**, 823 (*isol, synth, nitrile*)

Kuchar, M., *Collect. Czech. Chem. Commun.*, 1977, **42**, 1723 (*synth*)

Shapiro, B.L. *et al*, *J. Phys. Chem. Ref. Data*, 1977, **6**, 919 (*nmr*)

Wahlund, K.G., *J. Liq. Chromatogr.*, 1981, **4**, 309 (*chromatog*)

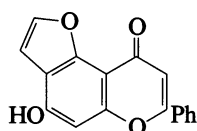
Li, S. *et al*, *CA*, 1984, **100**, 117826y (*isol, nitrile*)

Bodor, N. *et al*, *J. Med. Chem.*, 1988, **31**, 1651 (*synth*)

Dombrowicz, E. *et al*, *Pharmazie*, 1991, **46**, 156; *CA*, **114**, 225712f (*isol*)

7-Hydroxy-2-phenyl-4H-furo[2,3-f][1]benzopyran-9-one**H-10216**

7-Hydroxyfurano[2'',3'':5,6]flavone



$C_{17}H_{10}O_4$ M 278.264

Me ether: [60077-59-0]. 7-Methoxy-2-phenyl-4H-furo[2,3-f][1]benzopyran-9-one

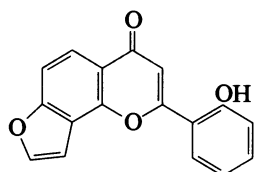
$C_{18}H_{12}O_4$ M 292.290

Isol. from the leaves of *Pongamia glabra*. Pale yellow needles ($CHCl_3$ /pet. ether). Mp 233°.

Malik, S.B. *et al*, *Indian J. Chem., Sect. B*, 1976, **14**, 229.

2-(2-Hydroxyphenyl)-4H-furo[2,3-h]-1-benzopyran-4-one, 9CI**H-10217**

2-Hydroxyfurano[2'',3'':7,8]flavone



$C_{17}H_{10}O_4$ M 278.264

Me ether: [73937-46-9]. 2'-Methoxyfurano[2'',3'':7,8]flavone

$C_{18}H_{12}O_4$ M 292.290

Isol. from the seeds of *Pongamia glabra*. Cryst. (EtOH).

Mp 180-181°.

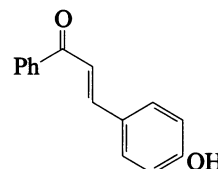
Pathak, V.P. *et al*, *Planta Med.*, 1983, **49**, 61.

3-(4-Hydroxyphenyl)-1-phenyl-2-propen-1-one, 9CI**H-10218**

4-Hydroxychalcone, 8CI. ω -*p*-

Hydroxybenzylideneacetophenone. (4-Hydroxystyryl) phenyl ketone

[20426-12-4]



$C_{15}H_{12}O_2$ M 224.259

Constit. of *Glycyrrhiza glabra* roots. Yellow cryst. (C_6H_6).

Mp 128°, Mp 182-183°.

Me ether: [959-33-1]. 4-Methoxychalcone.

Anisylideneacetophenone. *p*-Methoxystyryl phenyl ketone.

Anisylacetophenone

$C_{16}H_{14}O_2$ M 238.285

Yellow needles. Mp 77-78°. Bp₁₉ 187.5-188°.

Ac:

$C_{17}H_{14}O_3$ M 266.296

Mp 129-131°.

[22252-15-9, 30925-52-1]

Shriner, R.L. *et al*, *J. Am. Chem. Soc.*, 1930, **52**, 2538.

Davey, W. *et al*, *J. Chem. Soc.*, 1958, 1230 (*deriv*)

Wittmann, H. *et al*, *Monatsh. Chem.*, 1966, **97**, 896.

Rabinovich, D. *et al*, *J. Chem. Soc. B*, 1970, 6 (*cryst struct, deriv*)

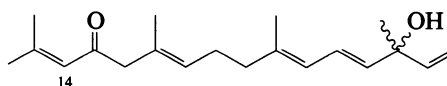
Dinya, Z. *et al*, *Acta Chim. Acad. Sci. Hung.*, 1972, **73**, 453.

Hoton-Dorge, M. *et al*, *J. Pharm. Belg.*, 1974, **29**, 560; *CA*, **83**, 111099x (*isol*)

3-Hydroxy-1,4,6,10,14-phytapentaen-13-one**H-10219**

Updated Entry replacing H-02893

14-Hydroxy-2,6,10,14-tetramethyl-2,6,10,12,15-hexadecapentaen-4-one



$C_{20}H_{30}O_2$ M 302.456

(3 ξ ,4E,6E,10E)-form [144101-92-8] *Styksenol A*

Constit. of *Myrmekioderma styx*. [α]_D²⁵ +13.4° (c, 0.091 in hexane), [α]_D +15.1° (CH_2Cl_2).

14,15-Dihydro: [144101-94-0]. 3-Hydroxy-1,4,6,10-phytatetraen-13-one

$C_{20}H_{32}O_2$ M 304.472

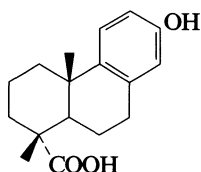
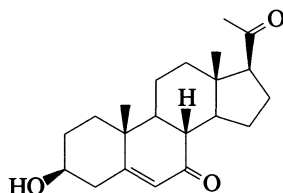
Isol. from *M. styx*. [α]_D²⁵ +12.3° (c, 0.013 in hexane).

Albrizio, S. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1287 (*isol, pmr, cmr*)

Sennett, S.H. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1421 (*isol, pmr, cmr*)

13-Hydroxy-8,11,13-podocarpatrien-18-oic acid **H-10220**

[61597-83-9]

 $C_{17}H_{22}O_3$ M 274.359Constit. of *Pinus massoniana*.Cheung, H.T.A. *et al*, *Tetrahedron*, 1993, **48**, 7903 (*isol*, *pmr*, *cmr*)**3-Hydroxypregn-5-ene-7,20-dione, 9CI** **H-10221** $C_{21}H_{30}O_3$ M 330.466**3 β -form** [33530-84-6]Constit. of *Stelodoryx chlorophylla*. Mp 209-210°. [α]_D –45.8° (c, 0.4 in $CHCl_3$).

Ac:

 $C_{23}H_{32}O_4$ M 372.503Mp 152.5°. [α]_D²⁰ –74.6° (c, 1.2 in $CHCl_3$).**(3 β ,17 α)-form** [16649-41-5]Cryst. (MeOH). Mp 182-183°. [α]_D²⁵ –191° (c, 1 in $CHCl_3$).

Ac: [16649-44-8].

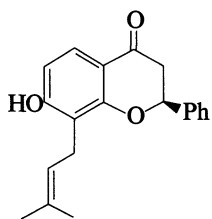
Cryst. (EtOAc/hexane). Mp 217-218°.

Schenck, G.O. *et al*, *Justus Liebigs Ann. Chem.*, 1958, **618**, 202 (*synth*, *w*)Rubin, M.B. *et al*, *J. Org. Chem.*, 1968, **33**, 2794 (*synth*, *w*, *ir*)De Riccardis, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 282 (*isol*, *pmr*, *cmr*, *ms*)**7-Hydroxy-8-prenylflavanone** **H-10222**

Updated Entry replacing H-02940

2,3-Dihydro-7-hydroxy-8-(3-methyl-2-butenyl)-2-phenyl-4H-1-benzopyran-4-one. Ovaliflavanone B

[53258-99-4]

 $C_{20}H_{20}O_3$ M 308.376**(S)-form**Isol. from *Milletia ovalifolia* and *Tephrosia* spp. Mp 144-145°.*Me ether*: [38965-75-2]. **7-Methoxy-8-prenylflavanone.****Isoderricin A** $C_{21}H_{22}O_3$ M 322.403Constit. of *Dahlstedtia pentaphylla* and *Derris sericea*. Cryst. (EtOH). Mp 103-104°. [α]_D²⁸ –91.1° (c, 1 in $CHCl_3$).**(±)-form** [129314-39-2]Isol. from the roots of *Glycyrrhiza pallidiflora*. Cryst. (EtOAc/hexane). Mp 141-144°.

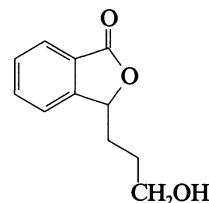
[124355-21-1]

Do Nascimento, M.C. *et al*, *Phytochemistry*, 1972, **11**, 3023**(Isoderricin A)**Gupta, R.K. *et al*, *Phytochemistry*, 1976, **15**, 832, 2011 (*isol*)Islam, A. *et al*, *Indian J. Chem., Sect. B*, 1981, **20**, 21 (*synth*)Khan, H.A. *et al*, *Phytochemistry*, 1986, **25**, 767 (*isol*)Garcez, F.R. *et al*, *Phytochemistry*, 1988, **27**, 1079 (*Isoderricin A*)Sakamoto, Y. *et al*, *Bull. Chem. Soc. Jpn.*, 1989, **62**, 2450 (*cmr*, *props*)Fukai, T. *et al*, *Heterocycles*, 1990, **31**, 643 (*isol*)**3-(3-Hydroxypropyl)phthalide** **H-10223**

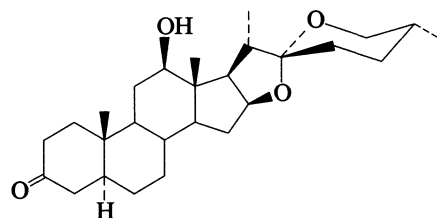
Updated Entry replacing H-02949

3-(3-Hydroxypropyl)-1(3H)-isobenzofuranone, 9CI

[124888-91-1]

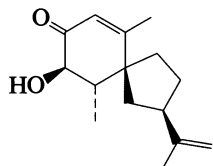
 $C_{11}H_{12}O_3$ M 192.214Constit. of *Gentiana pedicellata*.**O-Rutinoside**: [104669-04-7]. **Pedirutinoside** $C_{23}H_{32}O_{12}$ M 500.499Constit. of *G. pedicellata*.**O- β -D-Glucopyranoside**: [124183-39-7]. **Pedigluoside** $C_{17}H_{22}O_8$ M 354.356Isol. from the aerial parts of *Gentiana pyrenaica*.**O-[6-O-(4-hydroxy-3-methoxybenzoyl)- β -D-glucopyranoside]**:[124183-38-6]. **6'-Vanilloylpedigluoside** $C_{25}H_{28}O_{11}$ M 504.490Isol. from the aerial parts of *G. pyrenaica*.Chulia, A.J. *et al*, *J. Nat. Prod. (Lloydia)*, 1986, **49**, 514**(Pedirutinoside)**Garcia, J. *et al*, *Phytochemistry*, 1989, **28**, 1759 (*Pedigluoside*)Garcia, J. *et al*, *Planta Med.*, 1989, **55**, 405 (*isol*, *pmr*)**12-Hydroxyspirostan-3-one** **H-10224**

Updated Entry replacing H-03025

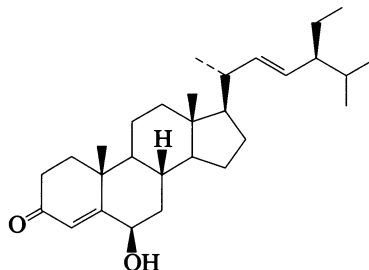
 $C_{27}H_{42}O_4$ M 430.626**(5 α ,12 β ,25R)-form** [4235-32-9] **Hispidogenin**Aglycone from *Solanum hispidum*, also isol. from *Asparagus umbellatus*. Cryst. Mp 208°. [α]_D –45.7° ($CHCl_3$).Ac: Mp 212°. [α]_D –51° ($CHCl_3$).**Dirhamnoside: Hispidin†** $C_{39}H_{62}O_{12}$ M 722.912Glycoside of *S. hispidum*. Mp 312-315°. [α]_D –64° (Py).

(5 α ,12 α ,25S)-form [32244-96-5] *Toruogenin*Constit. of *S. toruuum*.Maiti, P.C. *et al*, *Chem. Ind. (London)*, 1965, 1653.Diaz, R.F. *et al*, *An. Quim.*, 1967, **63**, 927.Morales, M. *et al*, *Rev. Latinoam. Quim.*, 1970, **1**, 1 (*Toruogenin*)**3-Hydroxy-1(10),11-spirovetivadien-2-one** H-10225*3-Hydroxysolavetivone*

[78216-55-4]

 $C_{15}H_{22}O_2$ M 234.338

Stress metab. from Virginia tobacco leaves. Oil.

Anderson, R.C. *et al*, *J. Chem. Soc., Chem. Commun.*, 1977, 127 (*isol*)Iwata, C. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2643 (*synth*)**6-Hydroxystigmasta-4,22-dien-3-one** H-10226 $C_{29}H_{46}O_2$ M 426.681**(6 β ,22E)-form** [36450-01-8]Constit. of the roots of *Phaseolus vulgaris* and the stems of *Phoenix dactylifera*. Cryst. (EtOH). Mp 210-212°. $[\alpha]_D^{25} + 8^\circ$ (CHCl₃).

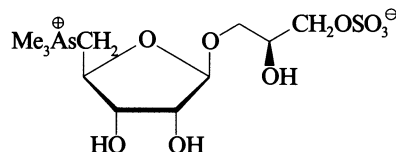
Ac: [36450-03-0].

Cryst. (hexane). Mp 107-109°. $[\alpha]_D^{25} + 16^\circ$ (CHCl₃).Katsui, N. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 223 (*isol*)Fernandez, M.I. *et al*, *Phytochemistry*, 1983, **22**, 2087 (*isol*)Galagovsky, L.R. *et al*, *J. Chem. Res., Synop.*, 1990, 366 (*synth*, *pmr*)**N²-(2-Hydroxysuccinoyl)arginine** H-10227N²-(3-Carboxy-2-hydroxy-1-oxopropyl)arginine, 9CI

[87605-92-3]

 $C_{10}H_{18}N_4O_6$ M 290.275Constit. of the seeds of *Vicia faba*, the tubers of *Smilax china* and the shoots of apple and pear trees.Kasai, T. *et al*, *Phytochemistry*, 1983, **22**, 147; 1984, **23**, 19 (*isol*)**2-Hydroxy-3-(sulfooxy)propyl-5-deoxy-5-(trimethylarsonio)- β -D-ribofuranoside,** 9CI

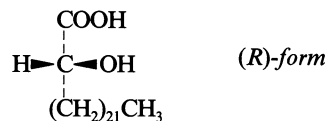
[138382-73-7]

 $C_{11}H_{23}AsO_5S$ M 406.285Constit. of the kidney of the giant clam *Tridacna maxima*.

[115299-23-5]

Francesconi, K.A. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1992, 1349 (*isol*)**2-Hydroxytetracosanoic acid** H-10229*Cerebronic acid. Phrenosic acid. Phrenosinic acid*

[544-57-0]

 $C_{24}H_{48}O_3$ M 384.641

Constit. of various glycosphingolipids. Isol. from wheat, corn, other plant spp., lichens and sponges.

(R)-form [26632-11-1]Isol. from *Penicillium* cultures; *Polyporus umbellatus* and *Aspergillus flavus*. Cryst. (CHCl₃); plates (Me₂CO). Mp 104.5-105.5° (99.5-100°). $[\alpha]_D^{25} + 3.4^\circ$ (c, 1.6 in Py).*Me ester:* $C_{25}H_{50}O_3$ M 398.668Mp 64-65°. $[\alpha]_D^{25} - 3.25^\circ$ (c, 0.92 in CHCl₃).

Ac: [127061-75-0].

 $C_{26}H_{50}O_4$ M 426.679Cryst. (pet. ether). Mp 81.5-82.5°. $[\alpha]_D^{20} + 8.46^\circ$ (c, 1.01 in CHCl₃).**(\pm)-form** [139237-67-5]Cryst. (C₆H₆). Mp 99.5-100°.

[2433-95-6, 54563-85-8, 54563-86-9, 54563-87-0, 54563-88-1, 73580-21-9, 132842-33-2]

Ashton, R. *et al*, *J. Chem. Soc.*, 1936, 283 (*synth*)Muller, A., *Ber.*, 1939, **72B**, 615 (*synth*)Yoshioka, I. *et al*, *Yakugaku Zasshi*, 1964, **84**, 742 (*isol*, *deriv*)Vacheron, H.J. *et al*, *Phytochemistry*, 1968, **7**, 1645 (*isol*)Hoshi, M. *et al*, *J. Biol. Chem.*, 1973, **248**, 4123 (*pharmacol*)Tatsumi, K. *et al*, *Arch. Biochem. Biophys.*, 1974, **165**, 656 (*abs config*)Florentina, N. *et al*, *Chem. Phys. Lipids*, 1984, **34**, 257 (*synth*)Koike, K. *et al*, *Carbohydr. Res.*, 1987, **162**, 237 (*synth*)Yamagata, K. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1990, 3355 (*synth*)Sugiyama, S. *et al*, *Justus Liebigs Ann. Chem.*, 1990, 1063 (*synth*)Sugai, T. *et al*, *Tetrahedron Lett.*, 1991, **32**, 7063 (*synth*, *bibl*)**3-Hydroxytetracosanoic acid** H-10230

[91297-89-1]

 $C_{24}H_{48}O_3$ M 384.641Constit. of the bark and latex of *Parahancornia arnapa*.

Also found in marine sediments.

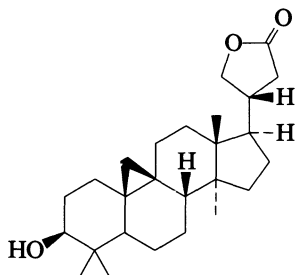
Sobrinho, D.C. *et al*, *J. Braz. Chem. Soc.*, 1991, **2**, 15 (*isol*)

3-Hydroxy-24,25,26,27-tetranorcycloartan-23,21-olide

H-10231

2',4'-Di-Me ether, 3-O-β-D-alloside: [75995-21-0]. 3-Allosyloxy-1-(2-hydroxy-4,6-dimethoxyphenyl)-1-butanone
 $C_{18}H_{26}O_{10}$ M 402.397
 Isol. from fern *Arachniodes standishii*. Amorph. $[\alpha]_D -25^\circ$.

Tanaka, N. *et al*, *Chem. Pharm. Bull.*, 1980, **28**, 3070.
 Hori, K. *et al*, *Yakugaku Zasshi*, 1990, **110**, 315 (*Onioside*)

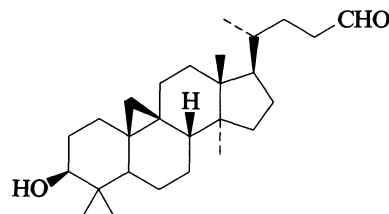
 $C_{26}H_{40}O_3$ M 400.600**3β-form** [146257-61-6]

Constit. of *Monocyclanthus vignei*. Cryst. (Me₂CO). Mp 219-220°. $[\alpha]_D^{21} +48^\circ$ (c, 0.7 in CHCl₃).

Achenbach, H. *et al*, *Phytochemistry*, 1992, **31**, 4263 (*isol*, *pmr*, *cmr*)

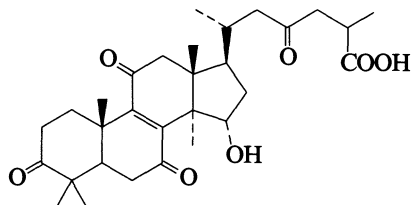
15-Hydroxy-3,7,11,23-tetraoxolanost-8-en-26-oic acid

H-10232

3-Hydroxy-25,26,27-trinorcycloartan-24-al H-10235 $C_{27}H_{44}O_2$ M 400.643**3β-form***Wrightal*

Constit. of *Wrightia tinctoria*. Cryst. Mp 99°. $[\alpha]_D^{20} +18.33^\circ$ (c, 1 in MeOH).

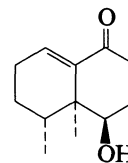
Ramchandra, P. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1811 (*isol*, *pmr*, *cmr*)

 $C_{30}H_{42}O_7$ M 514.658**(15α,25ξ)-form** [100440-26-4] *Ganoderic acid J* $C_{30}H_{42}O_7$ M 514.658Metab. of *Ganoderma lucidum*.

Nishitoba, T. *et al*, *Agric. Biol. Chem.*, 1985, **49**, 3637 (*isol*, *pmr*, *cmr*)

32-Hydroxy-5-tetratriacontanone

H-10233

6-Hydroxy-11,12,13-trinor-1(10),7-nardosinadien-9-one H-10236*6-Hydroxy-11,12,13-trinor-1(10),7-eremophiladien-9-one* $C_{12}H_{16}O_2$ M 192.257**6β-form** [53859-06-6] *Deoxonarchinal A*

Constit. of *Nardostachys chinensis*. Needles. Mp 105-109°. $[\alpha]_D -186^\circ$ (c, 0.21 in CHCl₃).

Itokawa, H. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 1183 (*isol*, *pmr*, *cmr*)

[79105-74-1]

 $H_3CCH_2CH(OH)(CH_2)_{26}CO(CH_2)_3CH_3$ $C_{34}H_{68}O_2$ M 508.910Constit. of the leaves and stems of *Hyoscyamus muticus*.Cryst. (C₆H₆/hexane). Mp 76-77°.

Goswami, A. *et al*, *Phytochemistry*, 1981, **20**, 1315 (*isol*)

3-Hydroxy-1-(2,4,6-trihydroxyphenyl)-1-butanone

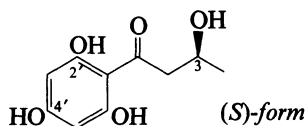
H-10234

12-Hydroxy-6,11,14-trioxo-8,12-abietadien-18-oic acid H-10237*6-Oxoroleanone-18-oic acid*

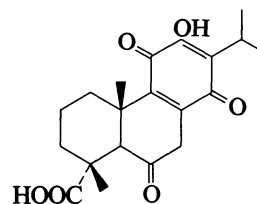
[145700-87-4]

Updated Entry replacing H-03111

[72896-79-8]

 $C_{10}H_{12}O_5$ M 212.202**(S)-form**

2',4'-Di-Me ether, 3-O-β-D-glucopyranoside: [129784-28-7].

Onioside $C_{18}H_{26}O_{10}$ M 402.397Constit. of the fronds of *Diplazium nipponicum*.**(ξ)-form** $C_{20}H_{24}O_6$ M 360.406Constit. of *Salvia divaricata*. Light yellow amorph. solid.

Me ether: [145700-88-5]. 12-Methoxy-6,11,14-trioxo-8,12-abietadien-18-oic acid

 $C_{21}H_{26}O_6$ M 374.433Constit. of *S. divaricata*. Light yellow amorph. solid.

Ulubelen, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1518 (*isol*, *pmr*, *cmr*)

41-Hydroxy-2,42-tritetracontapentaenediynoic acidC₄₃H₆₈O₃ M 633.008*Me ester*: [128646-22-0]. *Petroformyne A*C₄₄H₇₀O₃ M 647.035Constit. of the sponge *Petrosia ficiformis*. Posns. of ethylenic groups not determined.Cimino, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 345.**4-Hydroxy-16,18-tritriacontanedione**

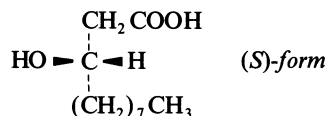
[97191-41-8]

H₃C(CH₂)₁₄COCH₂CO(CH₂)₁₁CH(OH)CH₂CH₂CH₃C₃₃H₆₄O₃ M 508.867Constit. of the leaf waxes of *Eucalyptus globulus*.Osawa, T. *et al*, *J. Agric. Food Chem.*, 1985, **33**, 777 (*occur*)**18-Hydroxy-16-tritriacontanone**

[97191-42-9]

H₃C(CH₂)₁₄CH(OH)CH₂CO(CH₂)₁₄CH₃C₃₃H₆₆O₂ M 494.883Constit. of the leaf waxes of *Eucalyptus globulus*.Osawa, T. *et al*, *J. Agric. Food Chem.*, 1985, **33**, 777 (*occur*)**3-Hydroxyundecanoic acid, 9CI**

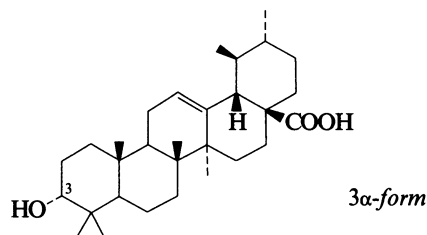
[40165-88-6]

C₁₁H₂₂O₃ M 202.293*(S)-form* [66997-62-4]Mp 64-65°. [α]_D¹⁸ + 17.1° (c, 2.1 in CHCl₃).*(±)-form*Occurs in *Pseudomonas maltophilia*. Cryst. (pet. ether).

Mp 73-73.5°.

Skogh, M., *Acta Chem. Scand.*, 1952, **6**, 809 (*synth*)Moss, C.W. *et al*, *J. Bacteriol.*, 1973, **114**, 1018 (*ms, ir*)Tahara, S. *et al*, *Agric. Biol. Chem.*, 1978, **42**, 879 (*synth*)**3-Hydroxy-12-ursen-28-oic acid**

Updated Entry replacing H-03166

C₃₀H₄₈O₃ M 456.707*3α-form* [989-30-0] *3-Epiursolic acid*Constit. of *Salvia lanata*, *Glechoma* spp. Cryst.(EtOAc/pet. ether). Mp 240-245°. [α]_D + 98° (CHCl₃).

H-10238

3β-form [77-52-1] *Ursolic acid*. *Micromerol*. *Formosolic acid*.*Forucosolic acid*. *Bungeolic acid*. *Prunol*. *Urson*Constit. of *Rhododendron* spp. and *Epigaea asiatica*, also found in wax of apples, pears and other fruits. V. widely distributed in plants. Cryst. (Et₂O). Mp 291°. [α]_D + 66° (EtOH). Identity of Formosolic (?Forucosolic) acid not clear from abstr.*Me ester*: [32208-45-0].C₃₁H₅₀O₃ M 470.734Constit. of *Gymnocolea inflata*, *Lyonia formosa* and others. Cryst. (EtOH). Mp 230°.*Ac*: [7372-30-7]. *Acetylursolic acid*C₃₂H₅₀O₄ M 498.745Isol. from various plants, e.g. *Leptospermum scoparium*. Cryst. (EtOH aq.). Mp 285°. [α]_D²⁰ + 71.5° (CHCl₃).*Ac*, 2-methoxybenzyl ester: [56973-20-7].C₄₀H₅₈O₅ M 618.895Isol. from roots of *Harpagophytum procumbens*.*Ac*, 4-methoxybenzyl ester: [56973-19-4].C₄₀H₅₈O₅ M 618.895Isol. from *H. procumbens* roots.

3-(4-Hydroxycinnamoyl): [50627-73-1].

C₃₉H₅₄O₅ M 602.853Isol. from *Tripetaleia paniculata*.*Formyl*: *Formylursolic acid*C₃₁H₄₈O₄ M 484.718Constit. of *Lavandula spica*. Cryst. Mp 223-226°. [α]_D²² + 81.4° (c, 0.126 in CHCl₃).3-Ketone: [6246-46-4]. 3-Oxo-12-ursen-28-oic acid. *Ursonic acid*C₃₀H₄₆O₃ M 454.692Constit. of dammar resin, *Rubus fruticosus* and other plants. Cryst. (MeOH). Mp 270-275° dec. [α]_D + 80° (c, 0.9 in CHCl₃).3-Ketone, *Me ester*: [989-72-0].Isol. from *Euphorbia caducifolia*. Cryst. (MeOH). Mp 192-194°. [α]_D + 86° (c, 0.5 in CHCl₃).3-O-β-D-Glucuronopyranoside, 28-O-β-D-glucopyranosyl ester: [117804-09-8]. *Cynarasaponin C*C₄₂H₆₆O₁₄ M 794.975Constit. of *Cynara cardunculus*. Powder + 1½H₂O (as *Me ester*). [α]_D²¹ - 7.5° (c, 0.93 in MeOH)(*Me ester*).3-O-[α-L-Arabinopyranosyl-(1→2)-β-D-glucuronopyranoside]: [117804-08-7]. *Cynarasaponin B*C₄₁H₆₄O₁₃ M 764.949Constit. of *C. cardunculus*. Powder + 1½H₂O (as di-*Me ester*). [α]_D²¹ + 9.7° (c, 1.81 in MeOH)(*Me ester*).

3-O-[α-L-Arabinopyranosyl-(1→2)-β-D-glucuronopyranoside], 28-O-β-D-glucopyranosyl ester: [117804-07-6].

*Cynarasaponin A*C₄₇H₇₄O₁₈ M 927.091Constit. of *C. cardunculus*. Powder + 1½H₂O (as *Me ester*). [α]_D²⁵ + 4.1° (c, 1.33 in MeOH)(*Me ester*).*Malonyl ester*: [143070-05-7]. *Cynoterpene*C₃₃H₅₀O₆ M 542.754Constit. of *Cynomorium songaricum*. Cryst. Mp 214-217°.

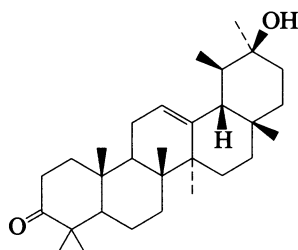
[74984-66-0, 117804-17-8, 117804-18-9, 117804-25-8]

Ruzicka, L. *et al*, *Helv. Chim. Acta*, 1945, **28**, 199 (*struct*)Mills, J.S. *et al*, *J. Chem. Soc.*, 1955, 3132 (*Ursolic acid*)Huneck, S. *et al*, *J. Prakt. Chem.*, 1968, **38**, 233 (*ms*)Huneck, S. *et al*, *Phytochemistry*, 1971, **10**, 3279 (*isol*)Mezzetti, T. *et al*, *Planta Med.*, 1971, **20**, 244 (*struct*)Karrer, W. *et al*, *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd Ed., Birkhäuser Verlag, Basel, 1972-1985, no. 2015 (*occur*)Yasue, M. *et al*, *Yakugaku Zasshi*, 1973, **93**, 687 (*p-Hydroxycinnamoyl*)Seo, S. *et al*, *J. Chem. Soc., Chem. Commun.*, 1975, 270, 954 (*biosynth, pmr*)

Seo, S. *et al*, *Tetrahedron Lett.*, 1975, 7 (*cmr*)
 Yankov, L.K. *et al*, *CA*, 1980, 93, 150418b (*Formosolic acid*)
 Mukherjee, K.S. *et al*, *Phytochemistry*, 1982, 21, 2416 (*isol*)
 Tomita, Y. *et al*, *J. Chem. Soc., Chem. Commun.*, 1985, 1087 (*biosynth*)
 Seo, S. *et al*, *J. Chem. Soc., Chem. Commun.*, 1986, 1141 (*biosynth*)
 Shimizu, S. *et al*, *Chem. Pharm. Bull.*, 1988, 36, 2466 (*Cynarasaponins*)
 Simon, A. *et al*, *Acta Crystallogr., Sect. C*, 1992, 48, 726 (*cryst struct*)
 Ma, C.M. *et al*, *Chin. Chem. Lett.*, 1992, 3, 281 (*Cynoterpene*)
 Papanov, G. *et al*, *Phytochemistry*, 1992, 31, 1424 (*Formylursolic acid*)

20-Hydroxy-12-ursen-3-one

H-10243



$C_{30}H_{48}O_2$ M 440.708

20 β -form [150148-82-6]

Constit. of *Rosmarinus officinalis*. Amorph. $[\alpha]_D^{20}$
 +107.3° (c, 0.4 in $CHCl_3$).

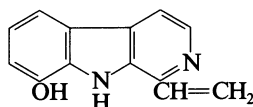
Ganeva, Y. *et al*, *Planta Med.*, 1993, 59, 276 (*isol, pmr, cmr*)

8-Hydroxy-1-vinyl- β -carboline

H-10244

Updated Entry replacing H-03173

1-Ethenyl-9H-pyrido[3,4-b]indol-8-ol, 9CI
 [138683-69-9]



$C_{13}H_{10}N_2O$ M 210.235

Alkaloid from the marine bryozoan *Cribricellina cribraria* and *Catenicella cribraria*. Exhibits cytotoxicity. Yellow oil. Pmr data revised in 1993.

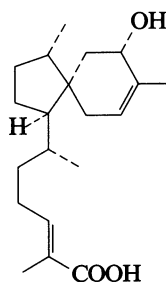
Prinsep, M.R. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, 54, 1068 (*isol, uv, ir, pmr, cmr, struct*)

Beutler, J.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, 56, 1825 (*isol, pmr*)

5-Hydroxy-3,14-viscidadien-16-oic acid

H-10245

[151310-20-2]



$C_{20}H_{32}O_3$ M 320.471

Constit. of *Eremophila punctata*. Oil. $Bp_{0.15}$ 215-220° (bath). $[\alpha]_D$ +67° (c, 0.04 in $CHCl_3$).

5-Ketone: [151310-19-9]. *5-Oxo-3,14-viscidadien-16-oic acid*

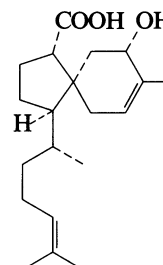
$C_{20}H_{30}O_3$ M 318.455

Constit. of *E. punctata*. Oil. $Bp_{0.15}$ 230-232° (bath). $[\alpha]_D$
 +125° (c, 0.3 in $CHCl_3$).

Forster, P.G. *et al*, *Phytochemistry*, 1993, 32, 1225 (*isol, pmr, cmr*)

5-Hydroxy-3,14-viscidadien-19-oic acid

H-10246



$C_{20}H_{32}O_3$ M 320.471

Constit. of *Eremophila alatisepala*.

Me ester: [110623-84-2].

$C_{21}H_{34}O_3$ M 334.498

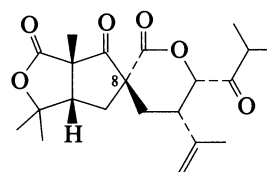
Constit. of *E. verticillata*. Oil. $Bp_{0.3}$ 190° (bath). $[\alpha]_D$
 +64.3° (c, 1.9 in $CHCl_3$).

Forster, P.G. *et al*, *Aust. J. Chem.*, 1986, 39, 2111 (*isol, pmr*)

Forster, P.G. *et al*, *Phytochemistry*, 1993, 32, 1225 (*isol, cmr*)

Hyperireflexolide A

H-10247



$C_{21}H_{28}O_6$ M 376.449

Constit. of *Hypericum reflexum*. Cryst. (Et_2O /hexane). Mp
 183-186°.

8-Epimer: Hyperireflexolide B

$C_{21}H_{28}O_6$ M 376.449

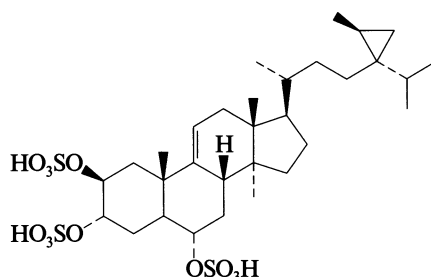
Constit. of *H. reflexum*. Oil.

Cardona, L. *et al*, *Phytochemistry*, 1993, 33, 1185 (*isol, pmr, cmr, cryst struct*)

I

Ibisterol

[148101-50-2]



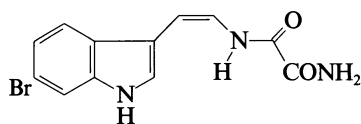
$C_{31}H_{52}O_{12}S_3$ M 712.943

Constit. of a *Topsentia* sp.

McKee, T.C. *et al*, *Tetrahedron Lett.*, 1993, **34**, 389 (*isol*, *pmr*, *cmr*)

Igzamide

[149355-80-6]



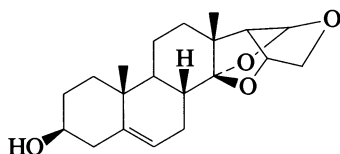
$C_{12}H_{10}BrN_3O_2$ M 308.134

Alkaloid from the northeastern Pacific sponge
Plocamissma igzo. Yellow solid.

Dumdei, E. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 792 (*isol*, *uv*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

Illustrol

I-10003



$C_{20}H_{28}O_4$ M 332.439

Constit. of *Mandevilla illustris*. Needles (as acetate). Mp 210° (acetate).

Yunes, R.A. *et al*, *Phytochemistry*, 1993, **34**, 787 (*isol*, *pmr*, *cmr*)

Incarnatrin

I-10004

$C_{21}H_{20}O_{12}$ M 464.382

Flavonoid glycoside of unknown struct. Constit. of the flowering tops of *Trifolium incarnatum*. Pale yellow needles + 3H₂O (H₂O). Softens at 165°, dec. at 242-245°.

Rogerson, H., *J. Chem. Soc.*, 1910, **97**, 1004 (*isol*)

Incarnatyl alcohol

I-10005

$C_{34}H_{70}O$ M 494.926

Struct. unknown. Constit. of the flowering tops of *Trifolium incarnatum*. Also obt. from the wax of the bumble bee. Needles (EtOAc/EtOH). Mp 74-75° (72-74°).

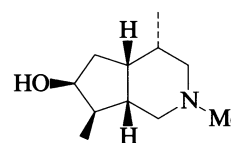
Benzoyl: Mp 55°.

Rogerson, H., *J. Chem. Soc.*, 1910, **97**, 1004 (*isol*)

Incarvilline

[145307-22-8]

I-10006



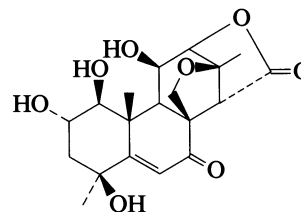
$C_{11}H_{21}NO$ M 183.293

Alkaloid from aerial parts of *Incarvillea sinensis* (Bignoniaceae). Mp 93.4-93.8°. $[\alpha]_D^{24}$ -8.0° (c, 1.24 in CHCl₃).

Chi, Y.-M. *et al*, *Phytochemistry*, 1992, **31**, 2930 (*isol*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

Indaquassin A

I-10007



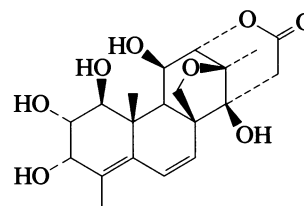
$C_{19}H_{24}O_8$ M 380.394

Constit. of *Quassia indica*. Amorph. powder. $[\alpha]_D^{19}$ -19.5° (c, 0.8 in Py).

Koike, K. *et al*, *Phytochemistry*, 1993, **34**, 505 (*isol*, *pmr*, *cmr*)

Indaquassin B

I-10008



$C_{20}H_{26}O_8$ M 394.421

Constit. of *Quassia indica*. Amorph. powder. $[\alpha]_D^{19}$ +98° (c, 0.4 in Py).

Koike, K. *et al*, *Phytochemistry*, 1993, **34**, 505 (*isol*, *pmr*, *cmr*)

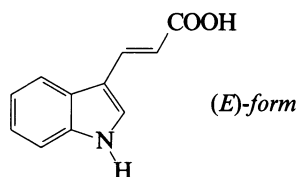
Indoic acid**I-10009**

Struct. unknown. Isol. from *Centella asiatica*. Mp 272°. $[\alpha]_D^{20} + 38.6^\circ$ (Py).

Bhattacharyya, S.C., *J. Indian Chem. Soc.*, 1956, **33**, 893.

3-(1H-Indol-3-yl)-2-propenoic acid**I-10010**

1H-Indole-3-propenoic acid. 3-(3-Indolyl)acrylic acid [1204-06-4]



$C_{11}H_9NO_2$ M 187.198

Major auxin from roots of *Lens culinaris* (Leguminosae).

(E)-form

Red-brown cryst. (H_2O or AcOH). Mp 195-196°.

Me ester:

$C_{12}H_{11}NO_2$ M 201.224

Cryst. (C_6H_6). Mp 153-154°.

Me ester, N-Ac:

$C_{14}H_{13}NO_3$ M 243.262

Cryst. (C_6H_6). Mp 179-180°.

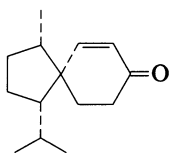
Furst, A. *et al*, *Arch. Biochem. Biophys.*, 1951, **31**, 190 (*synth*)

Inhoffen, H.H., *Justus Liebig's Ann. Chem.*, 1963, **668**, 108.

Rappe, C., *Acta Chem. Scand.*, 1964, **18**, 818 (*config*)

Hofinger, M. *et al*, *Phytochemistry*, 1970, **9**, 1757 (*isol*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, ICO000.

Inflatenone**I-10011**

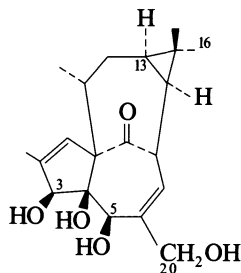
$C_{14}H_{22}O$ M 206.327

Constit. of *Gymnocolea inflata*. Oil. $[\alpha]_D^{21} - 7.94^\circ$ (c, 0.75 in $CHCl_3$).

Tori, M. *et al*, *Phytochemistry*, 1993, **34**, 281 (*isol, pmr, cmr*)

Ingenol**I-10012**

Updated Entry replacing I-00156 [30220-46-3]



$C_{20}H_{28}O_5$ M 348.438

Exists as free alcohol and as mono- or di-esters in *Euphorbia* spp. Resin.

► Esters are highly irritant and carcinogenic.

3,5,20-Tri-Ac: Cryst. Mp 195-197°.

3-Hexadecanoyl: [52557-26-3]. **3-Hexadecanoylingenol.**

*Euphorbia factor I*₁

$C_{36}H_{58}O_6$ M 586.851

Constit. of the latex of *E. ingens* and of *E. lathyris*. Oil. $[\alpha]_D^{20} + 29.8^\circ$ (c, 0.22 in MeOH).

► Irritant. Carcinogenic.

20-Hexadecanoyl: [39071-33-5]. **20-Palmitoylingenol.**

*Euphorbia factor I*₂

$C_{36}H_{58}O_6$ M 586.851

Constit. of *E. sieboldiana*, *E. ingens*, *E. lathyris*, *E. serrata*. Syrup. $[\alpha]_D^{23} - 23.7^\circ$ (c, 0.3 in $CHCl_3$).

3-(2E,4Z-Decadienoyl): [84680-59-1]. **Euphorbia factor E**₁

$C_{30}H_{42}O_6$ M 498.658

Constit. of *E. esula*. *Euphorbia factor H*₅ and *Euphorbia factor H*₆ are geometrical isomers of the acyl group.

► Irritant.

3-(2,4,6-Decatrienoyl): [84680-60-4]. **Euphorbia factor E**₂

$C_{30}H_{40}O_6$ M 496.642

Constit. of *E. esula*. *Euphorbia factor H*₂ and *Euphorbia factor I*₆ are geometrical isomers of the acyl group.

► Irritant.

3-(2,4,6,8-Dodecatetraenoyl): [84638-37-9]. **Euphorbia factor E**₃

$C_{32}H_{42}O_6$ M 522.680

Constit. of *E. esula*. *Euphorbia factor H*₃ is a geometrical isomer of the acyl group.

► Irritant.

3-Angeloyl: [75567-37-2]. **3-O-Angeloylingenol.** *Euphorbia factor An*₁. *Euphorbia factor H*₁

$C_{25}H_{34}O_6$ M 430.540

Constit. of *E. spp.*

3-(2,4,6-Decatrienoyl), 16-angeloyloxy: [52557-27-4]. **Euphorbia factor I**₅

$C_{35}H_{46}O_8$ M 594.744

Constit. of *E. ingens*. Presumed here to be 2,4,6-decatrienoyl; posn. of double bonds not explicit.

3-Angeloyl, 20-Ac: [82425-35-2]. **Euphorbia factor Pe**₁

$C_{27}H_{36}O_7$ M 472.577

Constit. of *E. spp.* $[\alpha]_D^{25} + 24.9^\circ$ (c, 0.13 in $CHCl_3$).

5-Deoxy: **5-Deoxyingenol**

$C_{20}H_{28}O_4$ M 332.439

Occurs as esters in *E. spp.* Cryst. (as di-Ac). Mp 205-207° (di-Ac).

20-Deoxy: [54706-99-9]. **20-Deoxyingenol**

$C_{20}H_{28}O_4$ M 332.439

Occurs as esters in *E. kansui* and *E. paralias*. Cryst. Mp 201-203°.

20-Deoxy, 3-hexanoyl: [75567-39-4].

$C_{26}H_{38}O_5$ M 430.583

Constit. of *E. paralias*.

► Irritant.

20-Deoxy, 5-benzoyl: [54706-97-7]. **Euphorbia factor P**₂, 5-Benzoyl-20-deoxyingenol

$C_{27}H_{32}O_5$ M 436.547

Constit. of *E. kansui* and other *E. spp.*

20-Deoxy, 3,5-dibenzoyl: [91413-71-7]. **Euphorbia factor P**₈

$C_{34}H_{36}O_6$ M 540.655

Constit. of *E. spp.*

20-Deoxy, 3-hexanoyl, 5-benzoyl: [91431-62-8]. **Euphorbia factor P**₉

$C_{33}H_{42}O_6$ M 534.691

Constit. of *E. spp.*

20-Deoxy, 3-angeloyl: [75567-38-3]. **3-Angeloyl-20-deoxyingenol.** *Euphorbia factor H*₈. *Euphorbia factor Pe*₂

$C_{25}H_{34}O_5$ M 414.541

Constit. of *E. paralias* and other *E. spp.*

20-Deoxy, 5-angeloyl: [91413-73-9]. **5-Angeloyl-20-deoxyingenol**. *Euphorbia factor H₄*

C₂₅H₃₄O₅ M 414.541

Constit. of *E. spp.*

20-Deoxy, 3-(2E,4Z,6-decatrienoyl): [84283-55-6].

C₃₀H₄₀O₅ M 480.643

Constit. of *E. biglandulosa*.

20-Deoxy, 5-(2E,4Z,6-decatrienoyl): [84283-56-7].

Euphorbia factor H₇

C₃₀H₄₀O₅ M 480.643

Constit. of *E. biglandulosa* and other *E. spp.*

20-Deoxy, 16-acetoxy, 3-angeloyl: [88262-77-5]. **Euphorbia factor Q₁**

C₂₇H₃₆O₇ M 472.577

Constit. of *E. spp.* Oil. [α]_D²⁵ + 16.9° (c, 0.28 in CHCl₃).

20-Deoxy, 16-benzoyloxy, 3-benzoyl: [91413-69-3].

Euphorbia factor P₆

C₃₄H₃₆O₇ M 556.654

Constit. of *E. spp.*

20-Deoxy, 13-(phenylacetyloxy), 16-(benzoyloxy), 3-benzoyl: [91413-67-1]. **Euphorbia factor P₃**

C₄₂H₄₂O₉ M 690.788

Constit. of *E. spp.*

20-Deoxy, 13,16-bis(benzoyloxy), 3-benzoyl: [91413-68-2].

Euphorbia factor P₅

C₄₁H₄₀O₉ M 676.762

Constit. of *E. spp.*

[52557-28-5, 91464-81-2, 91464-82-3, 91464-83-4]

Zeichmeister, K. *et al*, *Tetrahedron Lett.*, 1970, 4075 (*cryst struct*)
 Uemura, D. *et al*, *Tetrahedron Lett.*, 1971, 3673; 1974, 2527 (*isol*)
 Opferkuch, H.J. *et al*, *Tetrahedron Lett.*, 1974, 261 (*isol*)
 Sayed, M.D. *et al*, *Experientia*, 1980, **36**, 1206 (*esters*)
 Falsone, G. *et al*, *Arch. Pharm. (Weinheim, Ger.)*, 1982, **315**, 1026.
 Seip, E.H. *et al*, *Planta Med.*, 1982, **46**, 215 (*esters*)
 Sorg, B. *et al*, *Z. Naturforsch., B*, 1982, **37**, 748 (*synth, esters*)
 Evans, F.J. *et al*, *Prog. Chem. Org. Nat. Prod.*, 1983, **44**, 1 (*rev*)
 Lin, L.-J. *et al*, *J. Nat. Prod. (Lloydia)*, 1983, **46**, 723 (*esters*)
 Gotta, H. *et al*, *Z. Naturforsch., B*, 1984, **39**, 683 (*isol, esters*)
 Fürstenberger, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1986, **49**, 386 (*isol*)
 Jia, Z. *et al*, *Planta Med.*, 1991, **57**, 569 (*20-Palmitoylingenol*)
 Bagavathi, R. *et al*, *Z. Naturforsch., B*, 1991, **46**, 1425 (*isol, pmr, cmr*)

Constit. of *E. tirucalli*. Needles (EtOH). Mp 148-150°. [α]_D + 16.13° (c, 3.41 in CHCl₃).

7-Tigloyl, O⁸-Me, 3,12-di-Ac: [89984-06-5].

C₃₀H₄₂O₉ M 546.656

Constit. of latex of *E. kamerunica*.

O⁷-Benzoyl, O⁸-Me, 3,12-di-Ac: [89984-05-4].

C₃₂H₄₀O₉ M 568.663

Constit. of *E. kamerunica*.

7-Tigloyl, 3,8,12-tri-Ac: [92910-93-5].

C₃₁H₄₂O₁₀ M 574.667

Constit. of *E. kamerunica*.

7-Angeloyl, 3,8,12-tri-Ac: [92998-77-1].

C₃₁H₄₂O₁₀ M 574.667

Constit. of *E. kamerunica*.

7-Angeloyl, O⁸-Me, 3,12-Di-Ac: [90027-10-4].

C₃₀H₄₂O₉ M 546.656

Constit. of *E. kamerunica*.

8-(2-Methylbutanoyl), 3,7,12-tri-Ac:

C₃₁H₄₄O₁₀ M 576.683

Constit. of *E. tirucalli*. Oil. [α]_D + 92° (CHCl₃).

8-Benzoyl, 3,12-di-Ac:

C₃₀H₃₈O₈ M 526.625

Constit. of *E. antiquorum*. [α]_D - 21.8° (c, 0.16 in CHCl₃).

8-Tigloyl, 12-Ac:

C₂₇H₃₈O₈ M 490.592

Constit. of *E. antiquorum*. [α]_D + 10° (c, 0.16 in CHCl₃).

8-Tigloyl:

C₂₅H₃₆O₇ M 448.555

Constit. of *E. antiquorum*. [α]_D + 21.8° (c, 0.12 in CHCl₃).

8-Tigloyl, 3,12-di-Ac:

C₂₉H₄₀O₉ M 532.630

Constit. of *E. antiquorum*. [α]_D - 16.2° (c, 0.13 in CHCl₃).

Lotter, H. *et al*, *Tetrahedron Lett.*, 1979, 77 (*cryst struct*)

Abo, K. *et al*, *Phytochemistry*, 1981, **20**, 2535 (*derivs*)

Evans, F.J. *et al*, *Prog. Chem. Org. Nat. Prod.*, 1983, **44**, 1 (*rev*)

Connolly, J.D. *et al*, *Tetrahedron Lett.*, 1984, **25**, 3773 (*struct, deriv*)

Khan, A.Q. *et al*, *Heterocycles*, 1988, **27**, 2851.

Gewali, M.B. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 1547 (*derivs*)

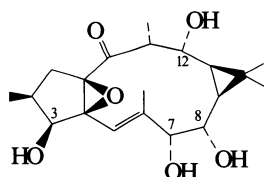
Khan, A.Q. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 728 (*isol, deriv*)

Ingol

I-10013

Updated Entry replacing I-00157

[51847-86-0]



C₂₀H₃₀O₆ M 366.453

Hydrol. prod. from *Euphorbia ingens* and *E. kamerunica*.

Antineoplastic agent.

Tetra-Ac: [51906-02-6].

C₂₈H₃₈O₁₀ M 534.602

Constit. of *E. kamerunica*. Cryst. (isopropyl ether). Mp 172-175°.

12-Tigloyl, 3,7,8-tri-Ac: [81427-04-5].

C₃₁H₄₂O₁₀ M 574.667

Constit. of *E. kamerunica*.

12-Tigloyl, 3,7-di-Ac: [81980-37-2].

C₂₉H₄₀O₉ M 532.630

Constit. of *E. kamerunica*.

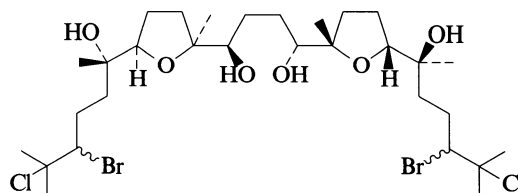
3,7,12-Tri-Ac, O⁸-Me: [77573-15-0]. **Tirucallicine**

C₂₇H₃₈O₉ M 506.592

Intricatetraol

I-10014

[150527-31-4]



C₃₀H₅₄Br₂Cl₂O₆ M 741.466

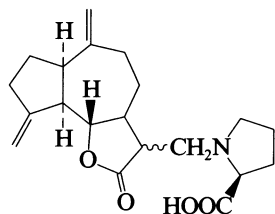
Metab. of *Laurencia intricata*. Cryst. (MeOH). Mp 109-111°. [α]_D²⁰ + 53.0° (c, 0.625 in CHCl₃).

Suzuki, M. *et al*, *Phytochemistry*, 1993, **33**, 651 (*isol, pmr, cmr*)

Involucratine
I-10015

Updated Entry replacing I-00207

1-[[Dodecahydro-6,9-bis(methylene)-2-oxoazuleno[4,5-b]furan-3-yl]methyl]proline, 9CI. Saussureamine B
[126209-82-3]

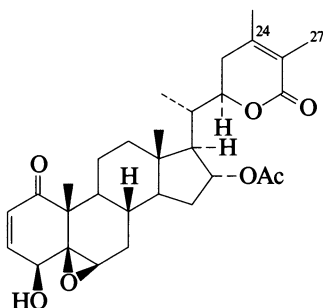

 $C_{20}H_{27}NO_4$ M 345.438

Alkaloid from *Saussurea involucrata* and *S. lappa* (Compositae). Powder. $[\alpha]_D^{25} -25.9^\circ$ (MeOH). Involucratine and Saussureamine B not compared.

Li, Y. *et al*, *Phytochemistry*, 1989, **28**, 3395 (Involucratine)
Yoshikawa, M. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 214 (Saussureamine B)

Iochromolide
I-10016

Updated Entry replacing I-00209


 $C_{30}H_{40}O_7$ M 512.642

Constit. of *Iochroma coccineum*. Cryst. (EtOAc). Mp 146-154°.

27-Hydroxy: 27-Hydroxyiochromolide

 $C_{30}H_{40}O_8$ M 528.641

Constit. of *I. coccineum*. Cryst. (EtOAc). Mp 242-244°.

24β,25α-Dihydro: 24,25-Dihydroiochromolide

 $C_{30}H_{42}O_7$ M 514.658

Constit. of *I. coccineum*. Cryst. (MeOH). Mp 191-196°.

Alfonso, D. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 1576 (isol, pmr, cmr, cryst struct)

Alfonso, D. *et al*, *Phytochemistry*, 1993, **34**, 517 (isol, pmr, cmr, cryst struct)

3-Iodo-2-propenoic acid, 9CI
I-10017

3-Iodoacrylic acid, 8CI

[71815-44-6]

 $IHC=CHCOOH$
 $C_3H_3IO_2$ M 197.960

Minor component of the aq. extract of Hawaiian red alga *Asparagopsis taxiformis*.

(E)-form [6372-02-7]

pK_a 5.59 (25°, 80% 2-methoxyethanol aq.).

Me ester: [6213-88-3].

Liq. d 2.11. Bp_{18.2} 61°.

Et ester: [31930-37-7].

 $C_5H_7IO_2$ M 226.014

Liq. d_4^{22} 1.738. Bp₁₀ 74-75°. n_D^{22} 1.526.

(Z)-form [6214-35-3]

Slightly yellow solid. Mp 67-68° (63-65°). pK_a 5.85 (25°, 80% 2-methoxyethanol aq.).

Me ester: [6214-23-9].

 $C_4H_5IO_2$ M 211.987

Liq. (slightly yellow). d 2.14. Bp_{12.2} 62-63°.

Et ester: [31930-36-6].

Liq. d_4^{22} 1.770. Bp₁₀ 83-84°. n_D^{22} 1.530.

Amide: [137627-61-3].

 C_3H_4INO M 196.975

Solid. Mp 98-102°.

Stolz, F., *Ber.*, 1886, **19**, 536 (synth)

Bowden, K. *et al*, *J. Chem. Soc. B*, 1970, 1466 (synth, pmr)

Biougne, J. *et al*, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1971, **272**, 858 (Et ester, synth, pmr, ir)

Brouwer, H. *et al*, *Can. J. Chem.*, 1972, **50**, 601 (cmr, pmr)

Bowden, K. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1972, 206 (pKa)

Topek, K. *et al*, *Collect. Czech. Chem. Commun.*, 1978, **43**, 2395 (synth)

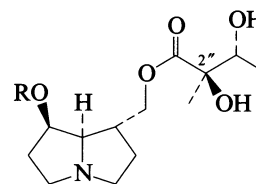
Woolard, F.X. *et al*, *Phytochemistry*, 1979, **18**, 617 (isol, glc, synth)

Jung, M.E. *et al*, *Tetrahedron Lett.*, 1983, **24**, 3973 (synth, pmr)

Moss, R.A. *et al*, *J. Am. Chem. Soc.*, 1989, **111**, 6729 (synth, pmr, ir, glc, Z-form, Me ester)

Ma, S. *et al*, *J. Chem. Soc., Chem. Commun.*, 1990, 1643 (Z-form, Et ester, synth)

Ma, S. *et al*, *J. Org. Chem.*, 1992, **57**, 709 (Z-form, synth, pmr, ir, ms)

Ipanguline A
I-10018


R = PhCH₂CO

 $C_{21}H_{29}NO_6$ M 391.463

Alkaloid from seeds of *Ipomoea hederifolia* (Convolvulaceae). Oil. $[\alpha]_D^{21} -69^\circ$ (c, 0.98 in MeOH).

2''-Epimer: Isoipanguline A

 $C_{21}H_{29}NO_6$ M 391.463

Alkaloid from seeds of *I. hederifolia* (Convolvulaceae).

Oil. $[\alpha]_D^{21} -61^\circ$ (c, 1.47 in MeOH).

Jennett-Siems, K. *et al*, *Phytochemistry*, 1993, **34**, 437 (isol, pmr, cmr, ms, struct)

Ipanguline B
I-10019

As Ipanguline A, I-10018 with

R = 2-hydroxybenzoyl

 $C_{20}H_{27}NO_7$ M 393.436

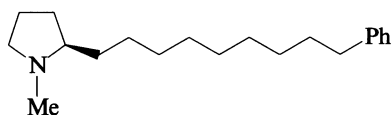
Alkaloid from above-ground parts (without fruits) of *Ipomoea hederifolia* (Convolvulaceae).

2''-Epimer: Isoipanguline B

 $C_{20}H_{27}NO_7$ M 393.436

Alkaloid from above-ground parts (without fruits) of *I. hederifolia* (Convolvulaceae). Oil. $[\alpha]_D^{21} -108^\circ$ (c, 0.90 in MeOH).

Jennett-Siems, K. *et al*, *Phytochemistry*, 1993, **34**, 437 (isol, pmr, cmr, ms, struct)

Iriiine*1-Methyl-2-(9-phenylonyl)pyrrolidine, 9CI*C₂₀H₃₃N M 287.487**(R)-form** [144425-08-1]

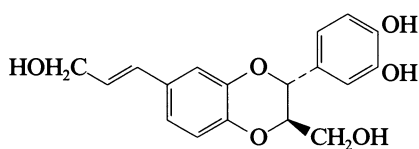
Alkaloid from the tubers of *Arisarum vulgare* (Araceae).
Oil. $[\alpha]_D^{21} - 35^\circ$ (c, 0.2 in CH₂Cl₂). Abs. config. tentative,
based on opt. rotn. only.

▷ Toxic.

Melhaoui, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 950 (*isol, ir, pmr, cmr, ms, struct*)

Isoamericanol A

[121620-06-2]

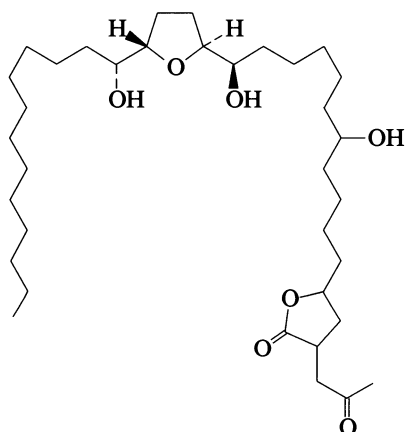
C₁₈H₁₈O₆ M 330.337

Isol. from the seeds of *Phytolacca americana*. Shows
neurotrophic activity. Prisms (Me₂CO/EtOAc). Mp 157-
159°. Racemic.

Fukuyama, Y. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 252 (*isol, pmr, cmr, struct*)

Isoanoreticuin

[142474-61-1]

C₃₅H₆₄O₇ M 596.886

Acetogenin isol. from *Annona reticulata*. Cytotoxic.
Amorph. powder. $[\alpha]_D^{24} + 9.7^\circ$ (c, 0.33 in CHCl₃).

Wu, Y.-C. *et al*, *Heterocycles*, 1992, **34**, 667 (*isol, pmr, cmr*)

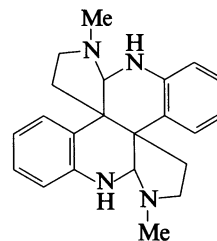
Isoauroside*Foleroside*

Flavonoid of unknown struct. Constit. of the aerial parts
of *Glycyrrhiza glabra*.

Litvinenko, V.I. *et al*, *Rastit. Resur.*, 1972, **8**, 35 (*isol*)

I-10020**Isocalycanthine**

[1399-92-4]

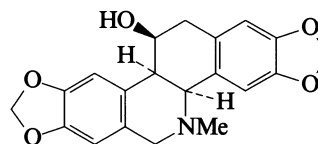
C₂₂H₂₆N₄ M 346.474

Alkaloid from stem bark and fruits of *Psychotria
forsteriana* (Rubiaceae). Mp 253°. $[\alpha]_D^{20} - 150^\circ$ (c, 2.5 in
EtOH).

Adjibade, Y. *et al*, *Phytochemistry*, 1992, **31**, 317 (*isol, uv, ir, pmr, cmr, ms, struct*)

Isochelidonine

[142741-30-8]

C₂₀H₁₉NO₅ M 353.374

Alkaloid from aerial parts of *Chelidonium majus*
(Papaveraceae). Cryst. (EtOH). Mp 124-125°. $[\alpha]_D + 72^\circ$
(c, 0.23 in EtOH).

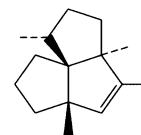
De Rosa, S. *et al*, *Phytochemistry*, 1992, **31**, 1085 (*isol, uv, ir, pmr, struct*)

2-Isocomene**I-10026**

Updated Entry replacing I-00356

α-Isocomene. Berkheyaradulene. Isocomene

[65372-78-3]

C₁₅H₂₄ M 204.355Constit. of *Isocoma wrightii* and *Berkheya radula*. Oil.Bp_{0.35} 65-70° (bath). $[\alpha]_D^{24} - 85^\circ$ (c, 3.5 in CHCl₃).Bohlmann, F. *et al*, *Chem. Ber.*, 1977, **110**, 3777 (*isol*)Zalkow, L.H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1977, 456 (*isol*)Pirrung, M.C. *et al*, *J. Am. Chem. Soc.*, 1979, **101**, 7130; 1981, **103**, 82 (*synth*)Paquette, L.A. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 1835 (*synth*)Dauben, W.G. *et al*, *J. Org. Chem.*, 1981, **46**, 1103 (*synth*)Oppolzer, W. *et al*, *Tetrahedron*, 1981, **37**, 4359 (*synth*)Wender, P.A. *et al*, *Tetrahedron*, 1981, **37**, 4445 (*synth*)Wenkert, E. *et al*, *J. Am. Chem. Soc.*, 1983, **105**, 2030 (*synth*)Ranu, B.C. *et al*, *Tetrahedron Lett.*, 1984, **25**, 2447 (*synth*)Tobe, Y. *et al*, *J. Chem. Soc., Chem. Commun.*, 1985, 898 (*synth*)Manzardo, G.G.G. *et al*, *Helv. Chim. Acta*, 1986, **69**, 659 (*synth*)Snider, B.B. *et al*, *J. Org. Chem.*, 1988, **53**, 4508 (*synth*)Fitjer, L. *et al*, *J. Org. Chem.*, 1993, **58**, 6171 (*abs config*)

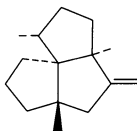
3(13)-Isocomene

I-10027

Updated Entry replacing I-00357

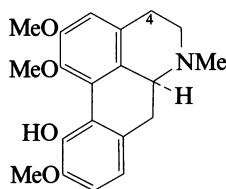
 β -Isocomene

[74311-15-2]

C₁₅H₂₄ M 204.355Constit. of *Berkheya* spp. Oil.Bohlmann, F. *et al*, *Phytochemistry*, 1979, **18**, 1831 (*isol*)Oppolzer, W. *et al*, *Tetrahedron*, 1981, **37**, 4359 (*synth*)Tobe, Y. *et al*, *J. Chem. Soc., Chem. Commun.*, 1985, 898 (*synth*)Willmore, N.D. *et al*, *J. Org. Chem.*, 1992, **57**, 1216 (*synth*)Fitjer, L. *et al*, *J. Org. Chem.*, 1993, **58**, 6171 (*abs config*)**Isocorydine**

I-10028

Updated Entry replacing I-00368

*11-Hydroxy-1,2,10-trimethoxyaporphine. Artabotrin.**Luteanine*†. *Coryuberine methyl ether*†*(S)*-formC₂₀H₂₃NO₄ M 341.406*(S)*-form [475-67-2]

Alkaloid from a wide variety of genera in the Annonaceae (*Annona*, *Enantia*, *Asimina*, *Arbobotrys*), Berberidaceae (*Dehaasia*, *Berberis*, *Mahonia*), Lauraceae (*Cryptocarya*, *Dehaasia*, *Beilschmiedia*, *Litsea*, *Phoebe*, *Ocotea*), Menispermaceae (*Stephania*), Monimiaceae (*Peumus*), Fumariaceae (*Corydalis*, *Dicentra*), Papaveraceae (*Glaucium*, *Papaver*, *Dicranostigma*), Ranunculaceae (*Thalictrum*), Rhamnaceae (*Phylla*), Hernandiaceae (*Hernandia*), Atherospermataceae (*Atherosperma*, *Doryphora*) and Pteridophyllaceae (*Pteridophyllum*). Adrenocytic, sedative and cholinergic agent. Shows virtually no antitussive activity. Mp 185°. [α]_D²³ +215° (c, 1 in CHCl₃).

▷ LD₅₀ (rat, ipr) 10.9 mg/kg.N-Oxide: [25405-80-5]. *Isocorydine N-oxide*C₂₀H₂₃NO₅ M 357.405Alkaloid from the leaves of *Berberis integerrima* (Berberidaceae). Amorph. solid. Mp 228-229°.N-Oxide; *B,HCl*: Mp 228-229°.N-Me: see *Menisperine*, M-00469N-De-Me: see *Norisocorydine*, N-00737**4 β -Hydroxy: Crabbine**C₂₀H₂₃NO₅ M 357.405Alkaloid from whole plants of *Corydalis lutea* (Fumariaceae).*(±)*-form [36284-37-4]

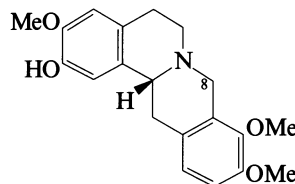
Mp 151-152°.

Gadamer, J., *Arch. Pharm. (Weinheim, Ger.)*, 1911, **249**, 641 (*isol*)Comin, J. *et al*, *J. Org. Chem.*, 1954, **19**, 1774 (*isol, uv, struct*)Kuck, A.M. *et al*, *J. Org. Chem.*, 1961, **26**, 5253 (*synth, uv*)Jackson, A.H. *et al*, *J. Chem. Soc. C*, 1966, 2181 (*ms*)Johns, S.R. *et al*, *Aust. J. Chem.*, 1967, **20**, 1277 (*isol, pmr*)Karimov, A. *et al*, *Khim. Prir. Soedin.*, 1978, **14**, 419; *Chem. Nat.**Compd. (Engl. Transl.)*, 360 (*oxide*)Marsaioli, A.J. *et al*, *Phytochemistry*, 1979, **18**, 165 (*cmr*)Ringdahl, B. *et al*, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 80 (*cd*)Toure, S. *et al*, *Acta Crystallogr., Sect. C*, 1985, **41**, 1827 (*cryst struct*)Yang, M.-H. *et al*, *Phytochemistry*, 1993, **33**, 943 (*Crabbine*)**Isocorypalmine**

I-10029

Updated Entry replacing I-00372

5,8,13,13a-Tetrahydro-3,9,10-trimethoxy-6H-dibenzo[a,g]quinolizin-2-ol, 9CI. 3,9,10-Trimethoxyberbin-2-ol, 8CI. 2-Hydroxy-3,9,10-trimethoxytetrahydroprotoberberine. Tetrahydrocolumbamine. Casealutine

*(R)*-formC₂₀H₂₃NO₄ M 341.406*(R)*-form [53447-14-6]

Alkaloid from *Corydalis cava*, in partially racemised form (Fumariaceae). Cryst. (MeOH). Mp 239-241° (220-222°). [α]_D +303° (CHCl₃).

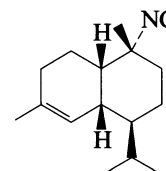
(S)-form [483-34-1]

Alkaloid from the leaves of *Bocconia frutescens*, *C. lutea*, *C. ophiocarpa*, other *C. spp.*, *Dicranostigma spp.*, *Glaucium fimbriigerum*, *Hydrastis canadensis*, *Thalictrum spp.*, *Pachypodanthium confine* and *Tinomisium petiolare* (Papaveraceae, Ranunculaceae, Annonaceae). Mp 241-242°.

▷ NQ7685000.

 β -N-Me: β -N-MethylisocorypalminiumC₂₁H₂₆NO₄⁺ M 356.441 (ion)Quaternary alkaloid from *Glaucium squamigerum*.Prisms (MeOH) (as iodide). Mp 175-176° (iodide). [α]_D²⁴ -127° (c, 0.13 in MeOH).**8-Oxo: 8-Oxoisocorypalmine**C₂₀H₂₁NO₅ M 355.390Alkaloid from stems of *Cosciniium fenestratum* (Menispermaceae). Gum. [α]_D -222° (c, 0.072 in CHCl₃).*(±)*-form [6487-33-8]Alkaloid from *Corydalis cava* (Fumariaceae). Prisms (CHCl₃/MeOH). Mp 221-222° (215-216°).Corrodi, H. *et al*, *Helv. Chim. Acta*, 1956, **39**, 889.Tomita, M. *et al*, *Yakugaku Zasshi*, 1967, **87**, 881 (*isol*)Naruto, S. *et al*, *Phytochemistry*, 1972, **11**, 2462 (*isol*)Slavík, J. *et al*, *Collect. Czech. Chem. Commun.*, 1975, **40**, 3206;1979, **44**, 2261; 1984, **49**, 1318 (*isol, N-Methylcorypalminium*)Battersby, A.R. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1975, 1147 (*biosynth*)Casnaw, J. *et al*, *Anal. Biochem.*, 1976, **74**, 343 (*glc, ms*)Pinho, P.M.M. *et al*, *Phytochemistry*, 1992, **31**, 1403 (*8-Oxoisocorypalmine*)**10-Isocyano-4-amorphene**

I-10030

C₁₆H₂₅N M 231.380

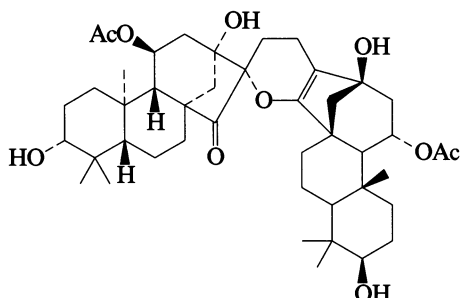
10 α -form [145632-88-8]

Constit. of *Acanthella* cf. *cavernosa*. $[\alpha]_D^{25} +101^\circ$ (c, 0.52 in MeOH).

Fusetani, N. *et al*, *Tetrahedron Lett.*, 1992, **33**, 6823 (*isol, pmr, cmr*)

Isodopharicin E

I-10031



$C_{44}H_{64}O_{10}$ M 752.984

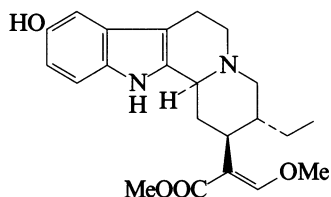
Constit. of *Isodon pharicus*. Needles. Mp 240-241°. $[\alpha]_D^{16} -144^\circ$ (c, 0.25 in EtOH).

Wang, Z.M. *et al*, *Chin. Chem. Lett.*, 1991, **2**, 847 (*isol, pmr, cmr*)

Isogambirine

I-10032

[142934-41-6]



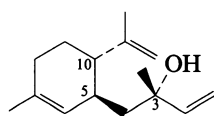
$C_{22}H_{28}N_2O_4$ M 384.474

Alkaloid from leaves of *Uncaria callophylla* (Rubiaceae).

Kam, T.-S. *et al*, *Phytochemistry*, 1992, **31**, 2031 (*isol, uv, pmr, cmr, ms, struct*)

Isohumbertiol

I-10033



$C_{15}H_{24}O$ M 220.354

(3*S*,5*S*,10*S*)-form [146924-31-4] **Isohumbertiol A**
Constit. of *Baccharis dracunculifolia*.

(3*S*,5*S*,10*R*)-form [146924-32-5] **Isohumbertiol B**
Constit. of *B. dracunculifolia*.

(3*S*,5*R*,10*R*)-form [146924-33-6] **Isohumbertiol C**
Constit. of *B. dracunculifolia*.

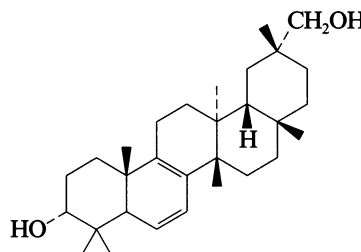
(3*S*,5*R*,10*S*)-form [146924-34-7] **Isohumbertiol D**
Constit. of *B. dracunculifolia*.

Weyerstahl, P. *et al*, *Justus Liebigs Ann. Chem.*, 1992, 1325 (*isol, pmr, cmr, synth*)

Isokaroundiol

I-10034

[147658-98-8]



$C_{30}H_{48}O_2$ M 440.708

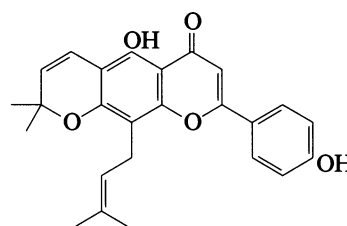
Constit. of *Trichosanthes kirilowii*. Cryst. Mp 246-248°.

Akihisa, T. *et al*, *J. Org. Chem.*, 1993, **58**, 1959 (*isol, pmr, cmr*)

Isolaxifolin

I-10035

[144049-82-1]



$C_{25}H_{24}O_5$ M 404.462

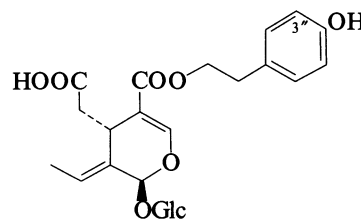
Constit. of the roots of *Derris laxiflora*. Mp 230-232°.

Lin, Y.-L. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 3132 (*isol, pmr, cmr*)

Isoligustrosidic acid

I-10036

Updated Entry replacing I-00516



$C_{24}H_{30}O_{12}$ M 510.494

Isol. from *Fraxinus formosana*. Amorph. powder. $[\alpha]_D^{22} -142^\circ$ (c, 0.9 in MeOH).

Me ester: [108789-18-0]. **Isoligustroside**

$C_{25}H_{32}O_{12}$ M 524.521

Constit. of *Syringa vulgaris*. Cryst. (as penta-Ac). Mp 45-50° (penta-Ac). $[\alpha]_D^{30} -122.7^\circ$ (c, 1.1 in $CHCl_3$) (penta-Ac).

(4-Hydroxyphenyl)ethyl ester: **Framoside**

$C_{32}H_{38}O_{13}$ M 630.644

Constit. of *F. formosana*. Amorph. powder. $[\alpha]_D^{22} -108^\circ$ (c, 0.15 in MeOH).

3'-Hydroxy, *Me ester*: [108789-17-9]. **Isooleuropein**

$C_{25}H_{32}O_{13}$ M 540.520

Constit. of *S. vulgaris*. Amorph. solid. $[\alpha]_D -105.4^\circ$ ($CHCl_3$) (hexa-Ac).

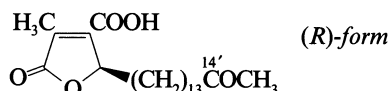
Kikuchi, M. *et al*, *CA*, 1987, **107**, 28255 (*Isooleuropein*)

Kikuchi, M. *et al*, *Yakugaku Zasshi*, 1987, **107**, 245 (*Isoligustroside*)

Tanahashi, T. *et al*, *Phytochemistry*, 1993, **32**, 133 (*Isoligustrosidic acid*)

Isomuronic acid

Updated Entry replacing I-00550

 $C_{21}H_{34}O_5$ M 366.497**(R)-form** [70579-66-7]

Isol. from the lichen *Neuropogon trachycarpus*.
Microcryst. (Me₂CO/hexane). Mp 108-109°. $[\alpha]_D^{24}$
+ 24.7° (c, 0.006 in CHCl₃).

14'-ξ-Alcohol: [75716-00-6]. *Neuropogolic acid* $C_{21}H_{36}O_5$ M 368.512

From *N. trachycarpus*. Microcryst. (Me₂CO aq.). Mp
111-112°. $[\alpha]_D^{23}$ + 22.4° (c, 0.013 in CHCl₃).

(S)-form [72960-05-5] *Dehydroconstipatic acid* $C_{21}H_{34}O_5$ M 366.497

Isol. from lichen *Parmelia barbata*. Needles (C₆H₆). Mp
91-92°. $[\alpha]_D^{25}$ - 73.5° (CHCl₃).

14'-ξ-Alcohol: [73036-28-9]. *Constipatic acid* $C_{21}H_{36}O_5$ M 368.512

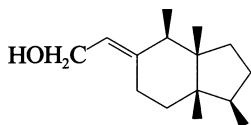
Isol. from *P. constipata*. Flakes (AcOH). Mp 108-109°.
 $[\alpha]_D^{25}$ - 24° (CHCl₃).

Chester, D. *et al*, *Aust. J. Chem.*, 1979, **32**, 2565 (*Constipatic acid*,
Dehydroconstipatic acid)

Bodo, B. *et al*, *Phytochemistry*, 1980, **19**, 1117; 1982, **21**, 2355
(*Isomuronic acid*, *Neuropogolic acid*)

Isonaviculol

[147235-23-2]

 $C_{15}H_{26}O$ M 222.370

Constit. of *Frullanoides densifolia*. Oil. $[\alpha]_D^{25}$ - 17.9° (c, 0.84
in CHCl₃).

[122768-96-1]

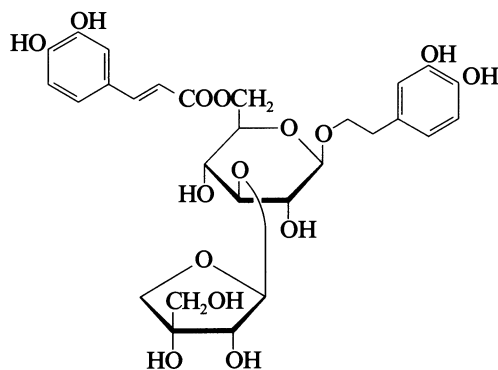
Tori, M. *et al*, *Phytochemistry*, 1993, **32**, 335 (*isol*, *pmr*, *cmr*)

Isonuomioside A

I-10039

2-(3,4-Dihydroxyphenyl)ethyl 3-O-D-apio-β-D-furanosyl-β-D-
glucopyranoside 6-[3-(3,4-dihydroxyphenyl)-2-propenoate]

[135463-05-7]

 $C_{28}H_{34}O_{15}$ M 610.568

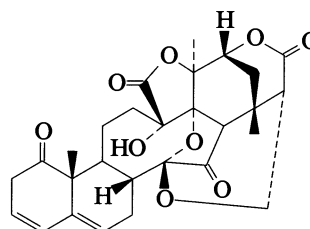
I-10037

Isol. from leaves of nuo-mi-xang-cao (*Acanthaceae*, prob.
Strobilanthus sp.). Pale yellow powder. $[\alpha]_D^{22}$ - 54.7° (c,
0.53 in MeOH).

Kasai, R. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 927 (*isol*, *cmr*, *pmr*)

Isophysalin B

I-10040

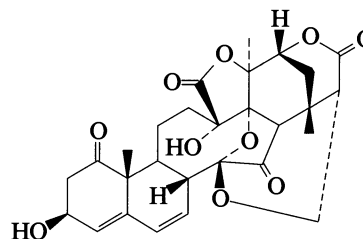
 $C_{28}H_{30}O_9$ M 510.540

Constit. of *Physalis alkekengi*. Amorph. solid. $[\alpha]_D$ - 86°
(c, 0.37 in MeOH).

Sunayama, R. *et al*, *Phytochemistry*, 1993, **34**, 529 (*isol*, *pmr*, *cmr*)

Isophysalin G

I-10041

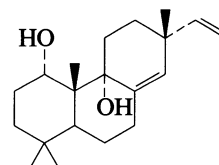
 $C_{28}H_{30}O_{10}$ M 526.539

Constit. of *Physalis alkekengi*. Amorph. solid. $[\alpha]_D$ - 32°
(c, 0.19 in CHCl₃).

Sunayama, R. *et al*, *Phytochemistry*, 1993, **34**, 529 (*isol*, *pmr*, *cmr*)

8(14),15-Isopimaradiene-1,9-diol

I-10042

 $C_{20}H_{32}O_2$ M 304.472**(1α,9α)-form** [147568-34-1]

Constit. of chung-ngang (*Kaempferia* sp.). Cryst.
(EtOAc). Mp 221-222°. $[\alpha]_D^{25}$ + 64.7° (c, 0.64 in CHCl₃).

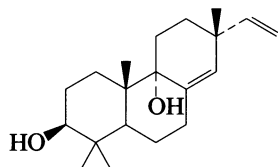
1-Ketone: [147568-33-0]. *9-Hydroxy-8(14),15-isopimaradiene-1-one* $C_{20}H_{30}O_2$ M 302.456

Constit. of chung-ngang (*K.* sp.). Needles (hexane). Mp
100-101°. $[\alpha]_D$ + 30.3° (c, 0.37 in CHCl₃).

Prawat, U. *et al*, *Phytochemistry*, 1993, **32**, 991 (*isol*, *pmr*, *cmr*,
cryst struct)

8(14),15-Isopimaradiene-3,9-diol

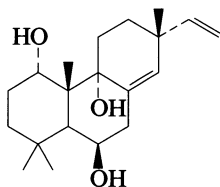
I-10043

Constit. of *C. esquirolii*. Cryst. Mp 63-65°. [α]_D²⁶ +13.6° (c, 0.22 in CHCl₃).Li, C.M. *et al*, *Chin. Chem. Lett.*, 1991, **2**, 223 (*isol*, *pmr*, *cmr*)C₂₀H₃₂O₂ M 304.472**(3β,9α)-form** [150943-96-7]

Phytoalexin from rice leaves. Needles. Mp 123-124°.

[α]_D²⁵ –26° (c, 0.1 in MeOH).Kato, H. *et al*, *Phytochemistry*, 1993, **33**, 79 (*isol*, *pmr*, *cmr*)**8(14),15-Isopimaradiene-1,6,9-triol**

I-10044

8(14),15-Sandaracopimaradiene-1,6,9-triolC₂₀H₃₂O₃ M 320.471**(1α,6β,9α)-form** [147568-38-5]Constit. of chung-ngang (*Kaempferia* sp.). Cryst. (EtOAc/hexane). Mp 227-228°. [α]_D²⁵ +27.9° (c, 0.56 in CHCl₃).

6-Ac: [147568-37-4].

C₂₂H₃₄O₄ M 362.508Constit. of chung-ngang (*K.* sp.). Cryst. (EtOAc/hexane). Mp 199-200°. [α]_D²⁵ –38.5° (c, 0.58 in CHCl₃).

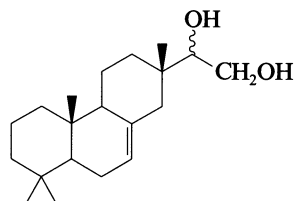
1-Ketone: [147568-36-3]. 6,9-Dihydroxy-8(14),15-isopimaradien-1-one

C₂₀H₃₀O₃ M 318.455Constit. of chung-ngang (*K.* sp.). Cryst. (EtOAc/hexane). Mp 154-155°. [α]_D²⁵ +4.8° (c, 0.73 in CHCl₃).

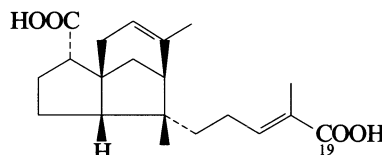
1-Ketone, 6-Ac: [147568-35-2].

C₂₂H₃₂O₄ M 360.492Constit. of chung-ngang (*K.* sp.). Cryst. (hexane). Mp 100-101°. [α]_D²⁵ –63.1° (c, 0.4 in CHCl₃).Prawat, U. *et al*, *Phytochemistry*, 1993, **32**, 991 (*isol*, *pmr*, *cmr*, *cryst struct*)**7-Isopimarene-15,16-diol**

I-10045

C₂₀H₃₄O₂ M 306.487**(15ξ)-form****Esquirolin B**Constit. of *Coleus esquirolii*. Cryst. Mp 95-96°. [α]_D²⁷ –100° (c, 0.08 in CHCl₃).15,16-O-Isopropylidene: [136196-65-1]. **Esquirolin C**C₂₃H₃₈O₂ M 346.552**12-Isoprenyl-3-cedrene-14,19-dioic acid**

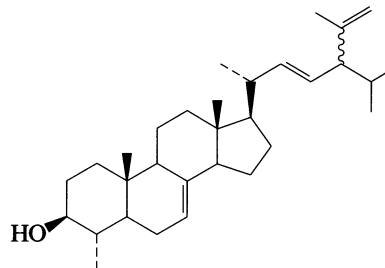
I-10046

C₂₀H₂₈O₄ M 332.439

19-Me ester: [145631-63-6].

C₂₁H₃₀O₄ M 346.466Constit. of *Eremophila georgei*. Microcryst. Mp 76-77.5°.[α]_D –119° (c, 0.5 in CHCl₃).Forster, P.G. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 147 (*isol*, *pmr*, *cmr*)**24-Isopropenyl-4-methylcholesta-7,22-dien-3-ol**

I-10047

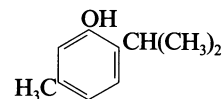
4,28-Dimethylstigmasta-7,22,28-trien-3-olC₃₁H₅₀O M 438.735**(3β,4α,5α,22E,24ξ)-form** [150148-79-1] **Violasterol A**Constit. of *Viola formosana*. Needles. Mp 191-193°. [α]_D²⁵ +5° (c, 0.2 in CHCl₃).Lee, S.-W. *et al*, *J. Chin. Chem. Soc. (Peking)*, 1993, **40**, 305 (*isol*, *pmr*, *cmr*)**2-Isopropyl-5-methylphenol**

I-10048

Updated Entry replacing I-00735

5-Methyl-2-(1-methylethyl)phenol, 9CI. p-Mentha-1,3,5-trien-3-ol. p-Cymen-3-ol, 8CI. 6-Isopropyl-m-cresol. 3-Hydroxy-4-isopropyltoluene. 3-Hydroxy-p-cymene. **Thymol**. **Thymianic acid (obsol.)**. **Thymianic camphor (obsol.)**

[89-83-8]

C₁₀H₁₄O M 150.220

Found in many essential oils. Esp. found in the Labiateae.

Rich sources are thyme oil, seed oil of *Ptychotis ajowan* and oils of *Monarda punctata* and *Ocimum* spp.Perfumery and flavour ingredient. Gives red or orange products with Ti, W (in conc. H₂SO₄). Plates (EtOAc or AcOH or Me₂CO) with odour of thyme. Mp 51.5°. Bp 233.5°, Bp₁₀ 115°. pK_{a1} 10.62 (20°).

▷ XP2275000.

Ac: [528-79-0].

C₁₂H₁₆O₂ M 192.257

Bp 242-243°.

Benzoyl: [6380-29-6].

$C_{17}H_{18}O_2$ M 254.328

Plates. Mp 33°.

O- β -D-Glucopyranoside:

$C_{16}H_{24}O_6$ M 312.362

Constit. of *Jasonia montana*.

O-[β -Apio- β -D-furanosyl-(1 \rightarrow 6)- β -D-glucopyranoside]:

[133733-92-3]. **Plucheoside C**

$C_{21}H_{32}O_{10}$ M 444.478

Constit. of *Pluchea indica*. Powder. $[\alpha]_D^{22} -72.7^\circ$ (c, 1.5 in MeOH).

Me ether: [1076-56-8]. 1-Isopropyl-2-methoxy-4-methylbenzene. 2-Isopropyl-5-methylanisole. **Thymol methyl ether**

$C_{11}H_{16}O$ M 164.247

Naturally occurring, e.g. in oil of *Crithmum maritimum* and *Orthodon hadai*, *Citrus* spp., *Pulicaria dysenterica*, *Arnica montana*. Gives red or orange products with Ti, W (in conc. H_2SO_4). Oil with ethereal odour. Bp₇₄₅ 211-212°, Bp₁₅ 94-96°.

Et ether: [4732-12-1]. 2-Ethoxy-1-isopropyl-4-methylbenzene

$C_{12}H_{18}O$ M 178.274

Bp 224-228°.

Austerweil, G. et al, *Bull. Soc. Chim. Fr.*, 1927, **41**, 454.

Fujita, Y., *CA*, 1947, **41**, 3585 (isol, deriv)

v. Sydow, E., *Acta Chem. Scand.*, 1963, **17**, 2504 (ms)

Schulte, K.E. et al, *Arch. Pharm. (Weinheim, Ger.)*, 1963, **296**, 353 (isol, synth, deriv)

Yamazaki, M. et al, *Chem. Pharm. Bull.*, 1963, **11**, 363 (biosynth)

Kraus, M. et al, *Collect. Czech. Chem. Commun.*, 1963, **28**, 1877 (synth)

Uldrickies, J. et al, *CA*, 1965, **63**, 11408 (synth)

Morris, W.W., *J. Assoc. Off. Anal. Chem.*, 1973, **56**, 1037 (ir)

Sandell, E.B. et al, *Photometric Determination of Traces of Metals, General Aspects*, Wiley, New York, 1978, 301.

Ahmed, A.A. et al, *Phytochemistry*, 1990, **29**, 3658 (glucoside)

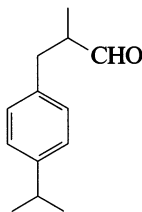
Uchiyama, T. et al, *Phytochemistry*, 1991, **30**, 655 (*Plucheoside C*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, TFX810.

3-(4-Isopropylphenyl)-2-methylpropanal I-10049

α -Methyl-4-(1-methylethyl)benzenepropanol, 9CI. p-Isopropyl- α -methylhydrocinnamaldehyde, 8CI. Cyclamen aldehyde

[103-95-7]



$C_{13}H_{18}O$ M 190.285

Constit. of blackberries, starfruit and oil of nutmeg. Used in the food and perfumery industries. Liq. with odour of cyclamen and lily of the valley. Bp₃ 104-105°, Bp₁ 92°.

2,4-Dinitrophenylhydrazone: [14501-58-7].

Cryst. Mp 112-112.5°.

Semicarbazone: [7200-97-7].

Cryst. Mp 172-172.5°.

[74648-06-9, 74648-07-0, 80949-77-5]

Naves, Y.R., *Manuf. Chem.*, 1948, **19**, 10 (rev, synth)

Beets, M.G.J. et al, *Recl. Trav. Chim. Pays-Bas (J. R. Neth. Chem. Soc.)*, 1951, **70**, 25 (synth)

Normant, H. et al, *Bull. Soc. Chim. Fr.*, 1959, 459 (synth)

Berends, W. et al, *Perfum. Essent. Oil Rec.*, 1967, **58**, 372 (rev, synth, use)

Kogami, K. et al, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 604; 1973, **46**, 3562 (synth)

Morris, W.W., *J. Assoc. Off. Anal. Chem.*, 1973, **56**, 1037 (ir)

Opdyke, D.L.J., *Food Cosmet. Toxicol.*, 1974, **12**, 397 (rev, use)

Chalk, A.J. et al, *J. Org. Chem.*, 1976, **41**, 1206 (synth)

Garbers, C.F. et al, *S. Afr. J. Chem.*, 1980, **33**, 27 (synth)

Yokowo, Y. et al, *Nippon Kagaku Kaishi*, 1981, 1904; *CA*, **96**, 122332 (synth)

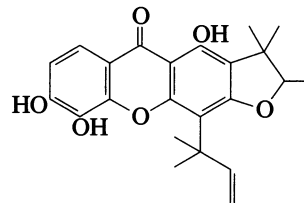
Virgilio, J.A. et al, *Org. Prep. Proced. Int.*, 1982, **14**, 9 (synth)

Nishimura, A. et al, *Nippon Kagaku Kaishi*, 1985, 558; *CA*, **104**, 109137 (synth)

Isorheediaxanthone B

I-10050

[88147-99-3]



$C_{23}H_{24}O_6$ M 396.439

Constit. of *Garcinia pyrifera* and *Rheedia gardneriana*.

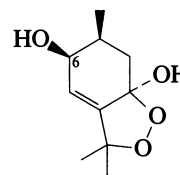
Yellow clusters (pet. ether). Mp 218°. $[\alpha]_D +25^\circ$ (c, 0.1 in Me_2CO).

Delle Monache, G. et al, *J. Nat. Prod. (Lloydia)*, 1983, **46**, 655 (isol, pmr)

Ampofo, S.A. et al, *Phytochemistry*, 1986, **25**, 2351 (isol, pmr)

Isosaturejol

I-10051



$C_{10}H_{16}O_4$ M 200.234

6-Ac: **Acetylisosaturejol**

$C_{12}H_{18}O_5$ M 242.271

Constit. of *Satureja gilliesii*. Cryst. (CH_2Cl_2 /pet. ether). Mp 100-102°.

Labbé, C. et al, *Phytochemistry*, 1993, **34**, 441 (isol, pmr, cmr)

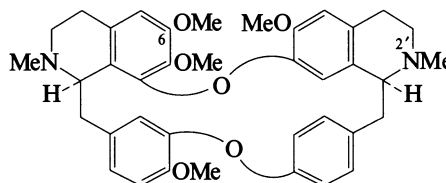
Isotetrandrine

I-10052

Updated Entry replacing I-00832

6,6',7,12-Tetramethoxy-2,2'-dimethylberbaman, 9CI. 1-Isotetrandrine. O-Methylberbamine

[477-57-6]



$C_{38}H_{42}N_2O_6$ M 622.760

Alkaloid from *Atherosperma moschatum*, *Berberis*

empetrifolia, *B. kawakamii*, *B. mingsensis*, *B.*

morrisonensis, *B. poiretii*, *B. thunbergii*, *Cyclea barbata*,

Doryphora aromatica, *Isopyrum thalictroides*, *Laurelia*

sempervirens, *Limaciopsis loangensis*, *Mahonia japonica*,

M. lomariifolia, *M. morrisonensis*, *M. philippinensis*,

Pycnarrhena australiana, *P. manillensis*, *Stephania*

cepharantha, *S. elegans*, *Thalictrum foetidum*, *Tiliacora funifera*, and *Triclisia gillettii* (Atherospermataceae, Berberidaceae, Menispermaceae, Ranunculaceae). Shows *in vitro* antitumour activity against HeLa cells and Ehrlich ascites. Prisms (MeOH). Mp 182-183°. $[\alpha]_D^{20} +150.7^\circ$ (c, 0.85 in CHCl₃).

▶ LD₅₀ (mus, orl) 6400 mg/kg. LD₅₀ (mus, ipr) 160 mg/kg. NX7285000.

2'-N-Oxide: [70191-83-2]. **Isotetrandrine N-2'-oxide**

C₃₈H₄₂N₂O₇ M 638.759

Alkaloid from the roots of *Limnaphys loangensis* (Menispermaceae). Cryst. (MeOH). Mp 191-192°. $[\alpha]_D +94^\circ$ (CHCl₃).

2'-N-De-Me: [70191-82-1]. **2'-Norisotetrandrine**

C₃₇H₄₀N₂O₆ M 608.733

Alkaloid from the roots of *L. loangensis* (Menispermaceae). Noncryst. $[\alpha]_D +26^\circ$ (CHCl₃).

N²-Me: [68331-87-3]. **2'-N-Methylisotetrandrine**

C₃₉H₄₅N₂O₆⁺ M 637.794 (ion)

Quaternary alkaloid from shoots of *B. oblonga* (Berberidaceae). Cryst. (THF) (as iodide). Mp 221-222° (iodide). $[\alpha]_D +29.5^\circ$ (c, 0.1 in CHCl₃).

2-N-De-Me: **2-Norisorisotetrandrine**

C₃₇H₄₀N₂O₆ M 608.733

Alkaloid from the tubers of *Stephania pierrii* (Menispermaceae). $[\alpha]_D +100^\circ$ (c, 0.16 in CHCl₃).

O⁶-De-Me: **Cycleabarbatine. 6-O-Demethylisotetrandrine**

C₃₇H₄₀N₂O₆ M 608.733

Alkaloid from roots of *Cyclea barbata* (Menispermaceae). $[\alpha]_D +20^\circ$ (c, 0.1 in CHCl₃).

Bick, I.R.C. *et al*, *Aust. J. Chem.*, 1956, **9**, 111; 1980, **33**, 225 (*isol, synth*)

Tomita, M. *et al*, *Yakugaku Zasshi*, 1960, **80**, 845; *CA*, **54**, 23187h (*isol*)

Yang, T.-H. *et al*, *Yakugaku Zasshi*, 1960, **80**, 847; *CA*, **54**, 23187i (*isol*)

Battersby, A.R. *et al*, *J. Chem. Soc.*, 1965, 2239 (*uw, ord*)

Falco, M.R. *et al*, *Tetrahedron Lett.*, 1968, 1953 (*pmr*)

Sioumis, A.A. *et al*, *Aust. J. Chem.*, 1972, **25**, 2251 (*isol*)

Baldas, J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1972, 592 (*ms*)

Tackie, A.N. *et al*, *J. Nat. Prod. (Lloydia)*, 1974, **37**, 1 (*isol, uw, pmr, ms*)

Ayim, J.S.K. *et al*, *J. Nat. Prod. (Lloydia)*, 1977, **40**, 561 (*isol*)

Moiseeva, G.P. *et al*, *Khim. Prir. Soedin.*, 1979, **15**, 818; *Chem. Nat. Compd. (Engl. Transl.)*, 723 (*cd, abs config*)

Cavé, A. *et al*, *Planta Med.*, 1979, **35**, 31 (*derivs*)

Bhakuni, D.S. *et al*, *Tetrahedron*, 1980, **36**, 2149 (*biosynth*)

Moullis, C., *J. Nat. Prod. (Lloydia)*, 1981, **44**, 101 (*isol, uw, ir, pmr, ms*)

Singh, R.S. *et al*, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 664 (*isol, uw, pmr, ms*)

Nakova, E. *et al*, *Khim. Prir. Soedin.*, 1985, **21**, 86, 91; *Chem. Nat. Compd. (Engl. Transl.)*, 83, 88 (*synth*)

Karimov, A. *et al*, *Khim. Prir. Soedin.*, 1986, **22**, 249; *Chem. Nat. Compd. (Engl. Transl.)*, 235 (*2'-N-Methylisotetrandrine*)

Buck, K.T., *Alkaloids (N.Y.)*, 1987, **30**, 62, 119.

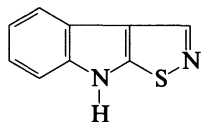
Tantisewie, B. *et al*, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 846 (*2-Norisotetrandrine*)

Guinaudeau, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1989 (*Cycleabarbatine*)

8*H*-Isothiazolo[5,4-*b*]indole, 9CI

Brassilexin

[119752-76-0]



C₉H₆N₂S M 174.226

I-10053

Isol. from leaves of *Brassica juncea* (Cruciferae).

Phytoalexin. Microcryst. Mp 164-167°.

N-Ac:

C₁₁H₈N₂OS M 216.263

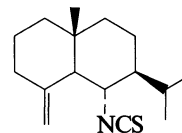
Mp 172-178°.

Devys, M. *et al*, *Tetrahedron Lett.*, 1988, **29**, 6447 (*isol, uw, ir, pmr, cmr, ms, struct*)

Devys, M. *et al*, *Synthesis*, 1990, 214 (*synth, ir, uw, pmr, ms*)

6-Isothiocyanato-4(15)-eudesmene

I-10054



C₁₆H₂₅NS M 263.446

6 α -form [149820-62-2] **Acanthene B**

Constit. of an *Acanthella* sp. and *Cadlina luteomarginata*. Solid. $[\alpha]_D -34^\circ$ (c, 0.18 in CHCl₃).

6-Formamide: [149820-63-3].

6-Formamido-4(15)-eudesmene. Acanthene C

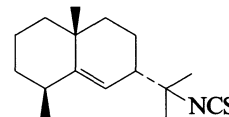
C₁₆H₂₇NO M 249.395

Constit. of an *A.* sp. and *C. luteomarginata*. Amorph. solid. Has —NHCHO replacing NCS.

Burgoyne, D.L. *et al*, *Tetrahedron*, 1993, **49**, 4503 (*isol, pmr, cmr*)

12-Isothiocyanato-5-eudesmene

I-10055



C₁₆H₂₅NS M 263.446

(4 β ,7 β H)-form [108639-31-2]

Constit. of *Acanthella klethra*.

Angerhofer, C.K. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1787 (*isol*)

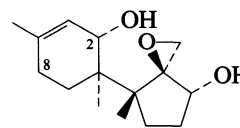
Isotrichodiol

I-10056

Updated Entry replacing I-00889

12,13-Epoxy-9,10-trichodiene-2,11-diol

[130369-84-5]



C₁₅H₂₄O₃ M 252.353

Metab. of *Fusarium culmorum*. An intermediate in the biosynthesis of trichothecenes.

2-Deoxy: [136208-91-8]. **12,13-Epoxy-9,10-trichodiene-11-ol**

C₁₅H₂₄O₂ M 236.353

From *F. culmorum*.

8 α -Hydroxy: **8 α -Hydroxyisotrichodiol**

C₁₅H₂₄O₄ M 268.352

Metab. of *F. culmorum*. Viscous oil.

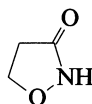
Zamir, L.O. *et al*, *J. Chem. Soc., Chem. Commun.*, 1991, 1033 (*deriv*)

Hesketh, A.R. *et al*, *Phytochemistry*, 1991, **30**, 2237; 1993, **32**, 105 (*isol, pmr, cmr, biosynth, 8-Hydroxyisotrichodiol*)

3-Isoxazolidinone, 9CI

3-Isoxazolidone

[1192-07-0]

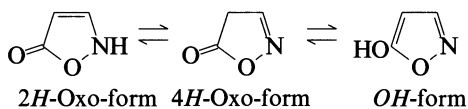
C₃H₅NO₂ M 87.078Isol. from seedlings of *Canavalia ensiformis*. Cryst. Mp 70°.Shunk, C.H. *et al*, *J. Org. Chem.*, 1957, **22**, 76 (synth)Olive, J.L. *et al*, *Bull. Soc. Chim. Fr.*, 1976, 1589 (synth, pmr)Sugii, M. *et al*, *Phytochemistry*, 1981, **20**, 451 (isol)

I-10057

De Sarlo, F. *et al*, *J. Chem. Soc. C*, 1971, 86 (synth)Teyssyre, J. *et al*, *J. Mol. Struct.*, 1972, **12**, 191 (tautom)Van Rompuy, L. *et al*, *Biochem. Biophys. Res. Commun.*, 1974, **56**, 199.Lambien, F. *et al*, *Biochem. Biophys. Res. Commun.*, 1974, **61**, 155.Kuo, Y.-H. *et al*, *Plant Physiol.*, 1982, **70**, 1283.Pasteels, J.M. *et al*, *Tetrahedron*, 1982, **38**, 1891.Ikegami, F. *et al*, *Phytochemistry*, 1984, **23**, 1567 (derivs)Karelson, M.M. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1990, 195 (tautom)**5(4H)-Isoxazolone, 9CI**

2-Isoxazolin-5-one, 8CI. 5-Isoxazolol. 5-Hydroxyisoxazole

[1072-48-6]

C₃H₃NO₂ M 85.062

Exists in several tautomeric forms. 2H-Oxo-form predominates in aq. soln., 4H-Oxo-form in gas phase. Cryst. Mp 67-69°.

2H-Oxo-form [43228-53-1]

5(2H)-Isoxazolone

N-(2-Aminoethyl): [54019-50-0]. 2-(2-Aminoethyl)-3-isoxazolin-5-one

C₅H₈N₂O₂ M 128.130Constit. of the seedlings of *Lathyrus odoratus*.

N-(β-Glutaminylaminoethyl): [53987-20-5]. 2-(β-Glutaminylaminoethyl)-3-isoxazolin-5-one

C₁₀H₁₅N₃O₅ M 257.246Constit. of the seedlings of *L. odoratus*.

N-β-D-Glucopyranosyl: [51581-00-1]. 2-β-D-Glucopyranosyl-3-isoxazolin-5-one

C₉H₁₃NO₇ M 247.204Constit. of the seedlings of *L. odoratus* and from the defence secretion of *Chrysomela tremulae*. Amorph. solid.

N-[6-O-(3-Nitropropanoyl)-β-D-glucopyranosyl]: [83566-20-5]. 2-[6-(3-Nitropropanoyl)-β-D-glucopyranosyl]-3-isoxazolin-5-one

C₁₂H₁₆N₂O₁₀ M 348.266Constit. of the defence secretion of *C. tremulae*.

Amorph. solid.

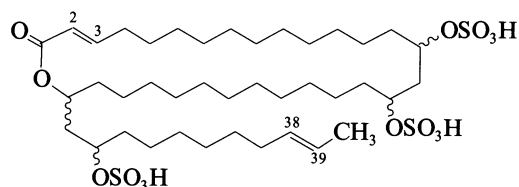
I-10058

Izumenolide

16,18-Bis(sulfooxy)-30-[2-(sulfooxy)-9-undecenyl]

oxacyclotriacont-3-en-2-one, 9CI. EM 4615. Antibiotic EM 4615. M-GTFI

[76265-39-9]

C₄₀H₇₄O₁₄S₃ M 875.214Izumenolide and M-GTFI have some gross struct. Prod. by *Micromonospora chalcea izumensis* and *M. narashinoensis* (M-GTFI). β-Lactamase inhibitor.Tri-Na salt: Amorph. hygroscopic solid. [α]_D²¹ -8.5° (c, 1 in H₂O). No definite Mp.

38,39-Dihydro, 39-sulfooxy: [85756-56-5]. Antibiotic MG 299A. MG 299A

C₄₀H₇₆O₁₈S₄ M 973.294Prod. by *M* sp. MG299-fF. Enzyme inhibitor.

2,3,38,39-Tetrahydro, 39-sulfooxy: [85756-55-4]. Antibiotic MG 299B. MG 299B

C₄₀H₇₈O₁₈S₄ M 975.309Prod. by *M* sp. MG299-fF. Enzyme inhibitor.

[72980-20-2, 120021-28-5, 121313-79-9]

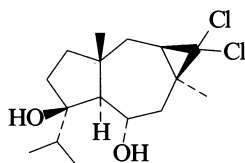
Ger. Pat., 2 920 293, (1979); CA, **92**, 126901 (isol)Liu, W.C. *et al*, *J. Antibiot.*, 1980, **33**, 1256 (isol, props)Bush, K. *et al*, *J. Antibiot.*, 1980, **33**, 1262, 1560 (props)Parker, W.L. *et al*, *Tetrahedron, Suppl.*, 1981, **37**, 275 (struct, w, ir, pmr, cmr)Japan. Pat., 82 200 380, (1982); CA, **98**, 214166f (Antibiotic MG 299)Ueda, M. *et al*, *J. Enzyme Inhib.*, 1988, **2**, 173; 1989, **2**, 279 (M-GTFI)

I-10059

J

Jaeschkenol

[149301-85-9]



$C_{16}H_{26}Cl_2O_2$ M 319.269

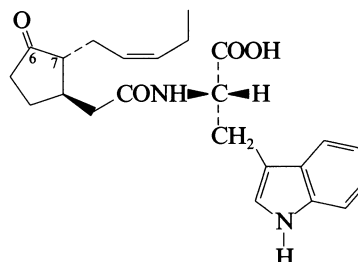
Constit. of *Ferula jaeschkeana*. Needles (EtOH). Mp 131°. $[\alpha]_D^{20} + 52.8^\circ$ (c, 1 in $CHCl_3$).

Garg, S.N. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 539 (*isol*, *pmr*, *cmr*, *cryst struct*)

J-10001

N-Jasmonoyltryptophan

[113762-87-1]



$C_{23}H_{28}N_2O_4$ M 396.485

Isol. from flowers of *Vicia faba*. Mp 149-150° (synthetic). $[\alpha]_D^{25} - 32.1^\circ$ (synthetic).

7-Epimer, 6 α -alcohol: [113762-88-2]. N-

Cucurbinoyltryptophan

$C_{23}H_{30}N_2O_4$ M 398.501

Isol. from flowers of *V. faba*. Tentative struct.

[120330-95-2]

Brueckner, C. *et al*, *Phytochemistry*, 1988, **27**, 275 (*isol*)

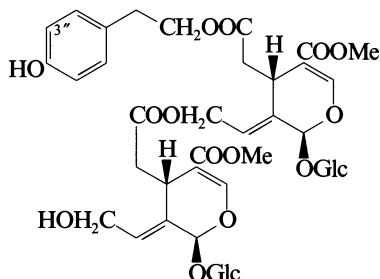
Kramell, R. *et al*, *Tetrahedron*, 1988, 5791 (*synth*)

Schneider, G. *et al*, *J. Chromatogr.*, 1989, **483**, 459 (*chromatog*)

J-10002

Jasamplexoside A

[147764-93-0]



$C_{42}H_{54}O_{24}$ M 942.874

Constit. of *Jasminum amplexicaule*. Powder. $[\alpha]_D^{25} - 178^\circ$ (c, 1.19 in MeOH).

3''-Hydroxy: [147742-02-7]. **Jasamplexoside B**

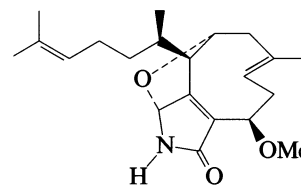
$C_{42}H_{54}O_{25}$ M 958.874

Constit. of *J. amplexicaule*. Powder. $[\alpha]_D^{29} - 174^\circ$ (c, 0.27 in MeOH).

Tanahashi, T. *et al*, *Planta Med.*, 1992, **58**, 552 (*isol*, *pmr*, *cmr*)

Joalin

[150999-04-5]



$C_{21}H_{31}NO_3$ M 345.481

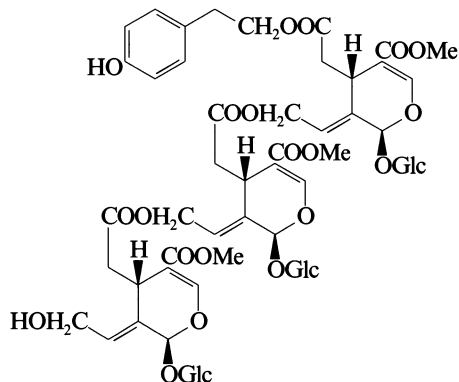
Constit. of a *Dictyota* sp. Semicryst. $[\alpha]_D^{29} - 59^\circ$ (c, 0.01 in $CHCl_3$).

Guella, G. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1993, 1545 (*isol*, *pmr*, *cmr*)

J-10005

Jasamplexoside C

[147742-01-6]



$C_{59}H_{76}O_{35}$ M 1345.228

Constit. of *Jasminum amplexicaule*. Powder. $[\alpha]_D^{28} - 162^\circ$ (c, 0.4 in MeOH).

Tanahashi, T. *et al*, *Planta Med.*, 1992, **58**, 552 (*isol*, *pmr*, *cmr*)

J-10003

Juglanin†

J-10006

$C_{27}H_{22}O_{18}$ M 634.460

Ester of glucose, 2 \times gallic acid and hexahydroxydiphenic acid, isomeric with Corilagin, C-01829. Struct. not fully known. Isol. from walnuts (*Juglans regia*). Powder. Mp 235-237° dec. $[\alpha]_D^{20} + 52^\circ$ (H_2O).

Jurd, L., *J. Am. Chem. Soc.*, 1958, **80**, 2249.

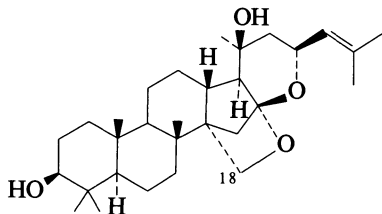
Jujubogenin

J-10007

Updated Entry replacing J-00137

16,18:16,23-Diepoxydammar-24-ene-3,20-diol

[54815-36-0]

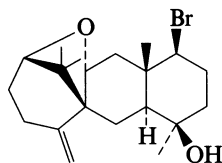
 $C_{30}H_{48}O_4$ M 472.707Cryst. (MeOH). Mp 250-252°. $[\alpha]_D^{25}$ -36° (c, 0.069 in EtOH).3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)-O-[O- β -D-glucopyranosyl-(1 \rightarrow 6)-O-[β -D-xylopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranosyl-(1 \rightarrow 3)]- α -L-arabinopyranoside]: [55466-04-1]. **Jujuboside A** $C_{38}H_{94}O_{26}$ M 1207.365Constit. of *Zizyphus jujuba*. Cryst. Mp 211-216°. $[\alpha]_D^{24}$ -50.1° (c, 0.43 in MeOH).3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)-O-[O- β -D-xylopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 3)]- α -L-arabinopyranoside]: [55466-05-2]. **Jujuboside B** $C_{52}H_{84}O_{21}$ M 1045.223Constit. of *Z. jujuba*. Cryst. Mp 222-225°. $[\alpha]_D^{24}$ -42.0° (c, 0.5 in MeOH).3-O-[(2-O- β -D-Xylopyranosyl)-3-O-(2-O- β -D-xylopyranosyl-6-O- β -D-glycopyranosyl- β -D-glucopyranosyl)- α -L-arabinopyranoside]: [68144-22-9]. **Hovenoside D** $C_{57}H_{92}O_{26}$ M 1193.338Constit. of *Hovenia dulcis*. Powder (butanol). Mp 205-210°. $[\alpha]_D$ -29.6° (c, 0.5 in MeOH).3-O-[(2-O- β -D-Xylopyranosyl)-3-O-(2-O- β -D-xylopyranosyl- β -D-glucopyranosyl)- α -L-arabinopyranoside]: [55466-01-8]. **Hovenoside G** $C_{51}H_{82}O_{21}$ M 1031.196Constit. of *H. dulcis*. Cryst. $[\alpha]_D$ -26.4° (c, 1 in MeOH).3-O-[(2-O- β -D-Xylopyranosyl)-3-O- β -D-glucopyranosyl- α -L-arabinopyranoside]: [68665-70-3]. **Hovenoside I** $C_{46}H_{74}O_{17}$ M 899.080Constit. of *H. dulcis*. Cryst. (MeOH). Mp 272-274°. $[\alpha]_D$ -24.2° (c, 0.5 in MeOH).3-O-[α -L-Arabinopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranosyl-(1 \rightarrow 2)]-6-deoxy- α -L-talopyranoside]: [88100-00-9].

Zizynummin

 $C_{47}H_{76}O_{17}$ M 913.107Constit. of leaves of *Z. nummularia*. Cryst. (MeOH). Mp 255-260°. $[\alpha]_D^{20}$ -44.85° (c, 1.00 in MeOH).3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 4)- α -L-arabinopyranoside], 20-O-(2,3-di-O-acetyl- α -L-rhamnopyranoside): [73667-51-3]. **Ziziphin** $C_{51}H_{80}O_{18}$ M 981.182Constit. of leaves of *Z. jujuba*. Sweetness inhibiting factor. Cryst. Mp 213-215°. $[\alpha]_D^{25}$ -39.6° (c, 1.01 in MeOH).3-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)]- β -D-quinovopyranosyl-(1 \rightarrow 2)]- α -L-arabinopyranoside]: [146503-30-2]. **Hoduloside III** $C_{47}H_{76}O_{17}$ M 913.107Constit. of *H. dulcis*. Needles (MeOH). Mp 297-299°. $[\alpha]_D^{22}$ -36.9° (c, 1 in Py).3-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranosyl-(1 \rightarrow 2)]- α -L-arabinopyranoside]: [146445-91-2]. **Hoduloside IV** $C_{47}H_{76}O_{18}$ M 929.107Constit. of *H. dulcis*. Needles (MeOH). Mp 246-248°. $[\alpha]_D^{22}$ -12.9° (c, 3.5 in MeOH).3-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)]- α -L-rhamnopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranoside]: [146445-92-3]. **Hoduloside V** $C_{48}H_{78}O_{18}$ M 943.133Constit. of *H. dulcis*. Needles (MeOH). Mp 215-217°. $[\alpha]_D^{22}$ -31.4° (c, 4.3 in MeOH).3-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)]- α -L-rhamnopyranosyl-(1 \rightarrow 2)]- α -L-arabinopyranoside]: [77943-83-0]. **Saponin C₂** $C_{47}H_{76}O_{17}$ M 913.107Constit. of *H. dulcis*. Needles (MeOH). Mp 288-290°. $[\alpha]_D^{22}$ 0° (c, 5.8 in Py).3-O-[α -L-Arabinofuranosyl-(1 \rightarrow 3)]- α -L-arabinopyranoside]: **Bacoside A₁** $C_{40}H_{64}O_{12}$ M 736.938Constit. of *Bacopa monniera*. Needles (MeOH). Mp 240°.Kawai, K.-I. *et al*, *Acta Crystallogr., Sect. B*, 1974, **30**, 2886 (*cryst struct*)Inoue, O. *et al*, *J. Chem. Res., Synop.*, 1978, 144 (*cmr*)Inoue, O. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1978, 1289 (*Hovenosides*)Kawai, K.-I. *et al*, *Phytochemistry*, 1978, **17**, 287 (*synth*)Otsuka, H. *et al*, *Phytochemistry*, 1978, **17**, 1349 (*Jujubosides struct*)Sharma, S.C. *et al*, *Phytochemistry*, 1983, **22**, 1469 (*Zizynummin*)Kurihara, Y. *et al*, *Tetrahedron*, 1988, **44**, 61 (*Ziziphin*)Yoshikawa, K. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2287 (*Hodulosides*)Jain, P. *et al*, *Phytochemistry*, 1993, **33**, 449 (*Bacoside A₁*)

K

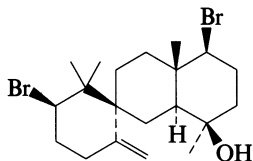
Kahukuene A [146293-93-8]



$C_{20}H_{31}BrO_2$ M 383.368
Constit. of *Laurencia majuscula*. Oil. $[\alpha]_D +25^\circ$ (c, 1.12 in $CHCl_3$).

Brennan, M.R. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 76 (isol, pmr, cmr)

Kahukuene B [146293-94-9]

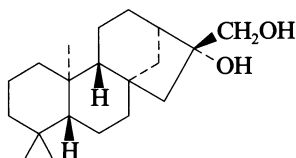


$C_{20}H_{32}Br_2O$ M 448.280
Constit. of *Laurencia majuscula*. Oil. $[\alpha]_D +29^\circ$ (c, 0.3 in $CHCl_3$).

Brennan, M.R. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 76 (isol, pmr, cmr)

16,17-Kauranediol

Updated Entry replacing K-00098



(ent-16β)-form

$C_{20}H_{34}O_2$ M 306.487
(ent-16β)-form [16836-31-0]

Constit. of fresh bulbs of *Fritillaria thunbergii*. Also from *Morithamnus crassus*, *Croton sublyratus* and other plants. Cryst. (MeOH). Mp 188-189°. $[\alpha]_D^{20} -47.0^\circ$ (c, 2.1 in $CHCl_3$).

17-Ac: *Esquirolin A*

$C_{22}H_{36}O_3$ M 348.525
Constit. of *Coleus esquirolii*. Cryst. Mp 147-148°. $[\alpha]_D^{27} +483.3^\circ$ (c, 0.06 in $CHCl_3$).

(ent-16α)-form [84711-16-0]

ent-16α,17-Kauranediol

From *F. thunbergii*, *Jamesonia scammanae*, *Bahia ambrosioides* and *Petunia patagonica*. Needles (MeOH). Mp 177° (168°). $[\alpha]_D^{20} -45.5^\circ$ (c, 1.2 in $CHCl_3$).

17-Ac: [84799-25-7].

$C_{22}H_{36}O_3$ M 348.525

From *P. patagonica*. Cryst. (butanone). Mp 150-152°.

16-Me ether: [84678-18-2]. ent-16α-Methoxy-17-kauranol

K-10001

$C_{21}H_{36}O_2$ M 320.514

From *F. thunbergii*. Needles (MeOH). Mp 171-173°. $[\alpha]_D^{17} -45.6^\circ$ (c, 1.1 in $CHCl_3$).

Kalinovskii, A.I. *et al*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1972, 567 (ms)

Bohlmann, F. *et al*, *Phytochemistry*, 1980, **19**, 2769.

Kitazawa, E. *et al*, *Phytochemistry*, 1981, **20**, 287.

Kitajima, J. *et al*, *Chem. Pharm. Bull.*, 1982, **30**, 3912, 3922.

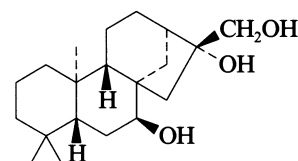
Guerreiro, E. *et al*, *Phytochemistry*, 1984, **23**, 2871.

Zdero, C. *et al*, *Phytochemistry*, 1990, **29**, 205.

Li, C.-M. *et al*, *CA*, 1991, **115**, 252107q (*Esquirolin A*)

7,16,17-Kauranetriol

K-10004



$C_{20}H_{34}O_3$ M 322.487

(ent-7α,16β)-form [145700-97-6]

Constit. of *Calibrachoa parviflora*. Cryst. (EtOAc). Mp 220-221°. $[\alpha]_D +3^\circ$ (c, 1 in EtOH).

7-Ac: [145700-98-7]. ent-7α-Acetoxy-16β,17-kauranediol

$C_{22}H_{36}O_4$ M 364.524

Constit. of *C. parviflora*. Cryst. (EtOAc/pentane). Mp 160-163°. $[\alpha]_D +16^\circ$ (c, 0.5 in $CHCl_3$).

17-(2-Methylbutanoyl), 7-Ac: [145700-96-5].

$C_{27}H_{44}O_5$ M 448.642

Constit. of *C. parviflora*. Cryst. (EtOAc/heptane). Mp 163-165°. $[\alpha]_D +2^\circ$.

7-Ketone: [145701-00-4]. 16,17-Dihydroxy-7-kauranone

$C_{20}H_{32}O_3$ M 320.471

Constit. of *C. parviflora*. Cryst. (heptane). Mp 168-170°. $[\alpha]_D -12^\circ$.

7-Ketone, 17-Ac: [145701-01-5].

$C_{22}H_{34}O_4$ M 362.508

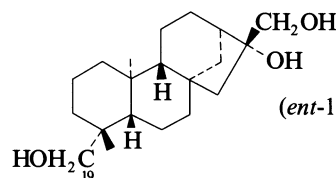
Constit. of *C. parviflora*. Cryst. (EtOAc/heptane). Mp 149-151°. $[\alpha]_D -23^\circ$.

Elliger, C.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1477 (isol, pmr, cmr, cryst struct)

16,17,19-Kauranetriol

K-10005

Updated Entry replacing K-00116



(ent-16βOH)-form

$C_{20}H_{34}O_3$ M 322.487

(ent-16βOH)-form [58648-76-3]

Minor constit. of *Ricinocarpus stylosus*. Also from *Beyeria* spp., *Turbina corymbosa* and others. Cryst. (EtOAc). Mp 224-226°. $[\alpha]_D -38^\circ$ (c, 3 in EtOH).

Tri-Ac: Cryst. (pet. ether). Mp 149-150°. $[\alpha]_D -63^\circ$ (c, 1.1 in $CHCl_3$).

- 19-O-β-D-Glucopyranoside*: [74008-24-5]. *Corymbositin*. *Corimbositin*
 Obt. by partial hydrolysis of Corymbosin. Isolated from the fern *Lindsaea javanensis*. Hygroscopic crystal. + 1½H₂O (MeOH aq.). Mp 220-222°. [α]_D²¹ – 61.7° (c, 1 in MeOH). Originally incorr. considered to be a C₂₃ aglycone.
- 19-(4-O-Methylglucopyranoside)*: [61667-46-7]. **Microlepin**
 C₂₇H₄₆O₈ M 498.656
 Constit. of *Microlepis marginata*. Cryst. (EtOH). Mp 235-236.5°. [α]_D²¹ – 59° (c, 1 in MeOH).
- 19-O-(4-O-Methyl-β-D-glucopyranoside), O¹⁷-Ac: 17-O-Acetylmicrolepin
 C₂₉H₄₈O₉ M 540.693
 Constit. of *M. marginata*. Needles (MeOH). Mp 113-117°. [α]_D²⁰ – 44.3° (c, 0.70 in MeOH).*
- 19-O-(6-O-Acetyl-4-O-methyl-β-D-glucopyranoside): 6'-Acetylmicrolepin
 C₂₉H₄₈O₉ M 540.693
 Constit. of *M. marginata*. Needles (MeOH/hexane). Mp 154-156°. [α]_D²⁰ – 54.3° (c, 0.35 in MeOH).*
- 17,19-Di-O-β-D-glucopyranoside: Corymbosin†. Corimbosin*
 C₃₂H₅₄O₁₃ M 646.771
 Constit. of seeds of *T. corymbosa*. Cryst. + ½H₂O (MeOH aq.). Mp 305-306°. [α]_D²⁵ – 59.2° (c, 3 in Py).
- 19-Aldehyde*: [130430-92-1]. **ent-16β,17-Dihydroxy-19-kauranal**
 C₂₀H₃₂O₃ M 320.471
 Isolated from *Baccharis potosina*.
- 19-Carboxylic acid*: [3301-61-9]. **ent-16β,17-Dihydroxy-19-kauranoic acid**
 C₂₀H₃₂O₄ M 336.470
 Constit. of *B. spp.*, *R. stylosus*, *Helichrysum diosmifolium*, *Siegesbeckia spp.* and others. Cryst. (MeOH/EtOAc). Mp 260-262°. [α]_D – 88° (c, 1.8 in Py).
- 19-Carboxylic acid, β-D-glucopyranosyl ester*: [65562-09-6]. **Paniculose IV. Crispiose B**
 C₂₆H₄₂O₉ M 498.612
 Constit. of *Stevia paniculata*, *S. ovata*, *Francoeuria crisa* and *Rubus suavissimus*. Cryst. (MeOH). Mp 149-153°. [α]_D^{18.5} + 65.6° (c, 0.25 in MeOH).
- 19-Carboxylic acid, 16,17-di-Ac*: [74410-58-5].
 C₂₄H₃₆O₆ M 420.545
 Isolated from *Eupatorium tinifolium*.
- 19-Carboxylic acid, β-D-glucopyranosyl ester*: [142631-50-3]. **Suavioside E**
 C₂₆H₄₂O₉ M 498.612
 Constit. of *R. suavissimus*. Amorphous powder. [α]_D²⁵ – 1.84° (c, 0.38 in MeOH).
- (ent-16αOH)-form**
- 17,19-Di-O-β-D-glucopyranoside: Epicorymbosin*
 C₃₂H₅₄O₁₃ M 646.771
 Constit. of *T. corymbosa*. Cryst. (MeOH). Mp 261-262°. [α]_D²⁵ – 60° (c, 0.0025 in MeOH).
- 19-Carboxylic acid*: [74365-74-5]. **ent-16α,17-Dihydroxy-19-kauranoic acid**
 C₂₀H₃₂O₄ M 336.470
 Constit. of fronds of *Dipteris conjugata*. Also from *E. tinifolium*, *Aster ageratoides* and others. Needles (MeOH). Mp 309-311° (285-290°). [α]_D²⁵ – 70° (c, 1.0 in Py) (– 47.62°).
- 19-Carboxylic acid, Me ester*: [74410-21-2].
 From *E. tinifolium*.
- 19-Carboxylic acid, β-D-glucopyranosyl ester, 17-Ac*:
 C₂₈H₄₄O₁₀ M 540.650
 Isolated from *A. ageratoides*. Powder (Me₂CO). Mp 138-140°. [α]_D²⁴ – 62.73° (c, 0.15 in MeOH).
- 19-Carboxylic acid, β-D-glucopyranosyl ester, 16-Ac*:
 C₂₈H₄₄O₁₀ M 540.650

Constit. of *Ageratoides turcz.* Powder (Me₂CO). Mp 138-140°. [α]_D²⁴ – 62.7° (c, 0.15 in MeOH).

19-Carboxylic acid, 17-Ac:

C₂₂H₃₄O₅ M 378.508

Constit. of *Aster tongolensis*. Gum.

19-Carboxylic acid, 19-β-D-glucopyranosyl ester:

C₂₆H₄₂O₉ M 498.612

Constit. of *A. tongolensis*. Amorphous powder.

19-Carboxylic acid, 19-β-D-glucopyranosyl ester, 17-Ac:

C₂₈H₄₄O₁₀ M 540.650

Constit. of *A. tongolensis*. Gum.

[20547-77-7]

Jefferies, P.R. *et al*, *Aust. J. Chem.*, 1964, **17**, 915; 1965, **18**, 1444, 2005.

Tanaka, N. *et al*, *Chem. Pharm. Bull.*, 1975, **23**, 152; 1976, **24**, 2891 (acid, *Microlepin*)

Yamasaki, K. *et al*, *Chem. Pharm. Bull.*, 1977, **25**, 2895 (*Paniculose IV*)

Garcia Jimenez, F. *et al*, *Rev. Latinoam. Quim.*, 1979, **10**, 181; *CA*, **93**, 26719m (*Corymbosin*)

Moreno, B. *et al*, *Farmaco, Ed. Sci.*, 1980, **35**, 457; *CA*, **93**, 66078h (*isol, derivs*)

Kuraishi, T. *et al*, *Chem. Pharm. Bull.*, 1983, **31**, 1494.

Satake, T. *et al*, *Chem. Pharm. Bull.*, 1983, **31**, 3865 (*isol, glucoside*)

Jakupovic, J. *et al*, *Phytochemistry*, 1990, **29**, 2217 (*ent-16,17-Dihydroxy-19-kauranal*)

Abdel-Mogib, M. *et al*, *Phytochemistry*, 1990, **29**, 2581 (*cmr, derivs*)

Ohtani, K. *et al*, *Phytochemistry*, 1992, **31**, 1553 (*Suavioside E, Paniculose IV*)

Cheng, D.L. *et al*, *Chin. Chem. Lett.*, 1993, **4**, 39 (*deriv*)

Garcia, J.F. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 771 (*Epicorymbosin*)

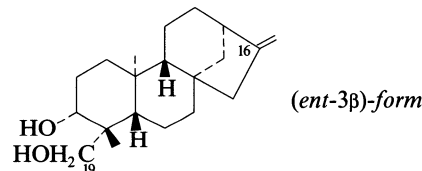
Tan, R.X. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1917 (*isol, pmr, cmr*)

Cheng, D.L. *et al*, *Phytochemistry*, 1993, **33**, 1181 (*derivs*)

16-Kaurene-3,19-diol

K-10006

Updated Entry replacing K-00134



C₂₀H₃₂O₂ M 304.472

(ent-3β)-form [18524-59-9]

Constit. of *Beyeria leschenaultii*, *Helichrysum dendroideum* and *Stachys lanata*. Cryst. (EtOAc). Mp 190° (184-185°). [α]_D – 66° (c, 1.66 in CHCl₃).

Di-Ac: Cryst. (MeOH aq.). Mp 113-114°. [α]_D – 66° (c, 1.95 in CHCl₃).

19-Succinoyl ester: [17904-36-8].

C₂₄H₃₆O₅ M 404.545

Constit. of *Goodenia ramelii*, *G. strophiolata* and metab. of *Gibberella fujikuroi*. Cryst. (MeOH aq.). Mp 155-157°. [α]_D – 78° (c, 1.7 in EtOH).

19-Aldehyde, 16α,17-epoxide, 3-angeloyl: [74635-57-7]. **ent-3β-Angeloyloxy-16β,17-epoxy-19-kauranal**

C₂₅H₃₆O₄ M 400.557

Isolated from *Smalanthus uvedalia*. Oil. [α]_D²⁴ – 105.2° (c, 0.26 in CHCl₃).

19-Carboxylic acid: [66556-91-0]. **ent-3β-Hydroxy-16-kauran-19-oic acid**

C₂₀H₃₀O₃ M 318.455

Constit. of *Stachys lanata*, *Bedfordia salicina* and others. Cryst. Mp 207-210°.

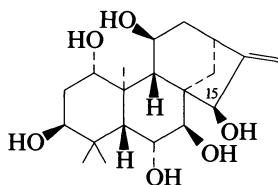
- 19-Carboxylic acid, 3-Ac: [70224-43-0].
 $C_{22}H_{32}O_4$ M 360.492
 Constit. of *S. lanata* and *Helichrysum* spp. Cryst. (EtOAc). Mp 255-260°.
- 19-Carboxylic acid, O-(3-methylbutanoyl): [74647-03-3].
 $C_{25}H_{38}O_4$ M 402.573
 Constit. of *Smalanthus uedalia*. Oil (as Me ester). $[\alpha]_D^{24}$ –39° (c, 0.2 in $CHCl_3$) (Me ester).
- 19-Carboxylic acid, 3-angeloyl: [74635-61-3].
 $C_{25}H_{36}O_4$ M 400.557
 Isol. from *Wedelia trilobata* and *S. uedalia*. Oil (as Me ester). $[\alpha]_D^{24}$ –69° (c, 3.1 in $CHCl_3$).
- 19-Carboxylic acid, 3-tigloyl: [79406-09-0].
 $C_{25}H_{36}O_4$ M 400.557
 From *W. trilobata*, *W. grandiflora* and *W. prostrata*. Cryst. Mp 153-155°. $[\alpha]_D$ –74° (c, 0.2 in $CHCl_3$).
- 19-Carboxylic acid, 3-(3-methyl-2-butenoyl): [74635-62-4].
 $C_{25}H_{36}O_4$ M 400.557
 From *S. uedalia*. Oil (as Me ester) (not pure).
- 19-Carboxylic acid, 3-(3-methylbutanoyl): [74635-55-5].
 $C_{25}H_{38}O_4$ M 402.573
 From *S. uedalia*. Oil (as Me ester) (not pure). $[\alpha]_D^{24}$ –39° (c, 0.2 in $CHCl_3$).
- 19-Carboxylic acid, 3-cinnamoyl: [79406-10-3].
 $C_{29}H_{36}O_4$ M 448.601
 Isol. from *W. trilobata* and *W. prostrata*. Cryst. Mp 53-55°. $[\alpha]_D$ –129° (c, 0.02 in $CHCl_3$).

(ent-3 α)-form

- 19-Carboxylic acid, 3-Ac: [66673-14-1].
 From *Helichrysum heterolasium*.
- 19-Carboxylic acid, 3-(3-methyl-2-butenoyl): [64086-30-2].
 From *W.* spp. Oil (as Me ester).
- [22488-91-1, 82508-73-4]
 Baddeley, G.W. *et al*, *Tetrahedron*, 1964, **20**, 1983 (*isol, struct*)
 Lloyd, H.A. *et al*, *Tetrahedron Lett.*, 1967, 4891 (*isol*)
 Coates, P. *et al*, *Tetrahedron*, 1968, **24**, 795 (*isol, struct*)
 Lunnon, M.W. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1977, 2317 (*synth*)
 Bohlmann, F. *et al*, *Phytochemistry*, 1977, **16**, 579; 1980, **19**, 107 (*isol*)
 Piozzi, F. *et al*, *Phytochemistry*, 1980, **19**, 1237 (*isol*)
 Ragasa, C.Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 387 (*isol, pmr, cmr*)

16-Kaurene-1,3,6,7,11,15-hexol**K-10007**

Updated Entry replacing P-00620

 $C_{20}H_{32}O_6$ M 368.469**(ent-1 β ,3 α ,6 β ,7 α ,11 α ,15 α)-form**

- 3-Ac: *Inflexarabdosin F*
 $C_{22}H_{34}O_7$ M 410.506
 Constit. of *Rabdosia inflexa* and *R. forrestii*. Needles. Mp 207-209° dec.
- 3,7-Di-Ac: *Forrestin B*
 $C_{24}H_{36}O_8$ M 452.544
 Constit. of *R. forrestii*. Needles. Mp 228-229°.
- 1,7,11-Tri-Ac: *Forrestin C*
 $C_{26}H_{38}O_9$ M 494.581
 Constit. of *R. forrestii*. Needles. Mp 291-292°. $[\alpha]_D$ –29.44° (c, 0.523 in MeOH).
- 7,11,15-Tri-Ac:

$C_{26}H_{38}O_9$ M 494.581
 Constit. of *R. forrestii*. Needles. Mp 251-254°.

6,7,11,15-Tetra-Ac: Forrestin D

$C_{28}H_{40}O_{10}$ M 536.618
 Constit. of *R. forrestii*. Needles. Mp 136-138°, Mp 224-226° (double Mp). $[\alpha]_D$ –46.01° (c, 0.489 in MeOH).

1,6,7,11,15-Penta-Ac: Forrestin A

$C_{30}H_{42}O_{11}$ M 578.655
 Constit. of *R. forrestii*. Needles. Mp 276-278°. $[\alpha]_D$ –27.93° (c, 0.537 in MeOH).

15-Ketone, 1,7,11-tri-Ac: [119763-89-2]. ent-1 β ,7 α ,11 α -Triacetoxo-3 α ,6 β -dihydroxy-16-kauren-15-one. Weisiensin A

$C_{26}H_{36}O_9$ M 492.565
 Isol. from *R. weisiensis*. Needles. Mp 298-300°.

6,15-Diketone, 1,7,11-tri-Ac: [109974-30-3]. ent-1 β ,7 α ,11 α -Triacetoxo-3 α -hydroxy-16-kaurene-6,15-dione.

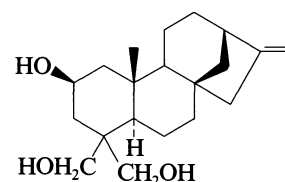
Adenanthin

$C_{26}H_{34}O_9$ M 490.549
 Isol. from *R. adenantha*. Shows bacteriostatic, antiinflammatory and antitumour props. Mp 255° dec. $[\alpha]_D^{13}$ –76° (c, 0.25 in $CHCl_3$). Revised struct.

- Xu, Y.-L. *et al*, *Tetrahedron Lett.*, 1987, **28**, 499 (*Adenanthin*)
 Yunlong, X. *et al*, *Phytochemistry*, 1989, **28**, 1978 (*Weisiensin A*)
 Xu, Y. *et al*, *Phytochemistry*, 1993, **34**, 461 (*Forrestins, Inflexarabdosin F*)

16-Kaurene-2,18,19-triol**K-10008**

Updated Entry replacing D-02140

 $C_{20}H_{32}O_3$ M 320.471**2 α -form**

Constit. of *Psiadia arabica*. Needles (MeOH/EtOAc). Mp 237-238°. $[\alpha]_D^{22}$ –69° (c, 0.1 in $CHCl_3$).

2 β -form

Constit. of *P. arabica*. Needles (MeOH/EtOAc). Mp 220-221°. $[\alpha]_D^{22}$ –38° (c, 0.1 in $CHCl_3$).

2 ξ -form

2-Ketone: [144525-20-2]. 18,19-Dihydroxy-16-kauren-2-one.

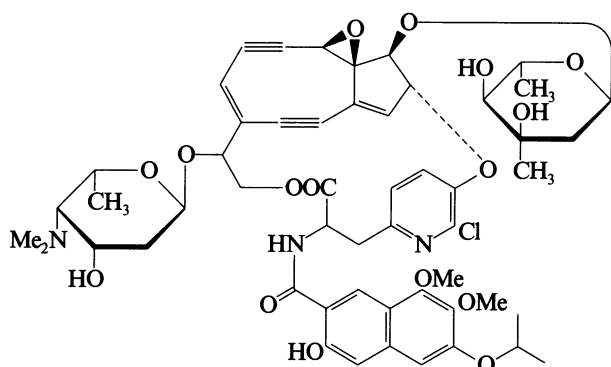
Psiadin

$C_{20}H_{30}O_3$ M 318.455
 Constit. of *P. arabica*. Needles ($CHCl_3$ /EtOAc). Mp 164-165°. $[\alpha]_D^{22}$ –120° (c, 0.01 in $CHCl_3$).

- Mossa, J.S. *et al*, *Phytochemistry*, 1992, **31**, 2863 (*isol, pmr, cmr, cryst struct*)
 El-Domiaty, M.E. *et al*, *Phytochemistry*, 1993, **34**, 467 (*isol, abs config*)

Kedarcidin

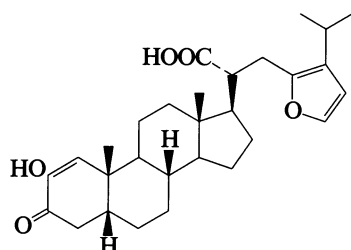
[128512-39-0]



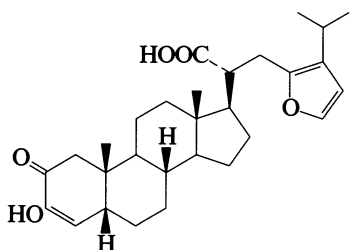
Chromoprotein antibiotic. Struct. of chromophore shown. Apoprotein moiety is a linear polypeptide consisting of 114 AA residues of known struct. Prod. by *Streptoaloteichus* sp. LS85-6. Antitumour agent. Active against gram-positive bacteria. Buff powder.

Lam, K.S. *et al.*, *J. Antibiot.*, 1991, **44**, 472 (*props*)Leet, J.E. *et al.*, *J. Am. Chem. Soc.*, 1992, **114**, 7946 (*struct*)Hofstead, S.J. *et al.*, *J. Antibiot.*, 1992, **45**, 1250 (*isol*)**Kiheisterone A**

[144436-06-6]

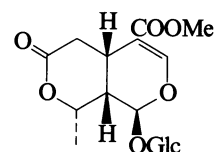
 $C_{29}H_{40}O_5$ M 468.632Constit. of Maui sponge. Glass. $[\alpha]_D + 144^\circ$ (c, 1.72 in MeOH).Carney, J.R. *et al.*, *J. Org. Chem.*, 1992, **57**, 6637 (*isol*, *pmr*, *cmr*)**Kiheisterone B**

[144436-07-7]

 $C_{29}H_{40}O_5$ M 468.632Constit. of Maui sponge. Needles. Mp 223-225°. $[\alpha]_D + 19^\circ$ (c, 0.7 in $CHCl_3$).Carney, J.R. *et al.*, *J. Org. Chem.*, 1992, **57**, 6637 (*isol*, *pmr*, *cmr*)**K-10009****Kingiside**

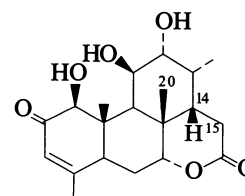
Updated Entry replacing K-00239

[25406-67-1]

 $C_{17}H_{24}O_{11}$ M 404.370Constit. of *Lonicera alpigena*. Noncryst. $[\alpha]_D^{20} - 90^\circ$ (MeOH).*Tetra-Ac*: Mp 165-166°. $[\alpha]_D - 80^\circ$ (c, 1 in $CHCl_3$).*Aglucone*: [74848-77-4]. **Kingiside aglycone** $C_{11}H_{14}O_6$ M 242.228Constit. of *Strychnos spinosa*. Oil. $[\alpha]_D^{20} + 137^\circ$ (c, 7.5 in MeOH).*6'-(4-Hydroxy-3-methoxybenzoyl)*: **6'-Vanilloylkingiside** $C_{25}H_{30}O_{14}$ M 554.504Constit. of *Gentiana pyrenaica*.*Parent acid*: **Kingisidic acid** $C_{16}H_{22}O_{11}$ M 390.343Constit. of *Citronella gongonha*. Foam. $[\alpha]_D^{22} - 106^\circ$ (c, 0.7 in MeOH).*Parent acid, 8-epimer*: **8-Epikingisidic acid** $C_{16}H_{22}O_{11}$ M 390.343Constit. of *C. gongonha*. Foam. $[\alpha]_D - 21^\circ$ (c, 0.9 in MeOH).Souzu, I. *et al.*, *Tetrahedron Lett.*, 1969, 2725 (*isol*)Baillieu, F. *et al.*, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 573 (*isol*)Msonthi, J.D. *et al.*, *Phytochemistry*, 1985, **24**, 771 (*isol*)Garcia, J. *et al.*, *Phytochemistry*, 1990, **29**, 3353 (*Vanilloylkingiside*)Damtoft, S. *et al.*, *Phytochemistry*, 1993, **32**, 1071 (*Kingisidic acid*)**Klaineanone****K-10013**

Updated Entry replacing K-00250

[4668-74-0]

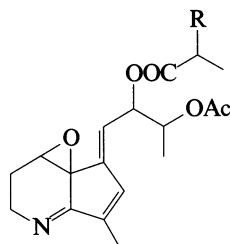
 $C_{20}H_{28}O_6$ M 364.438Constit. of the fruits of *Hannoa klaineana*. Cryst. (EtOAc). Mp 253-258°. $[\alpha]_D - 52^\circ$ (c, 1 in Py).*15β-Hydroxy*: [56316-76-8]. **15-Hydroxyklaineanone** $C_{20}H_{28}O_7$ M 380.437Constit. of *Perriera orientalis*. Cryst. Mp 221-224°. $[\alpha]_D + 70^\circ$ (c, 0.8 in MeOH).*14β,15β-Dihydroxy*: **14β,15β-Dihydroxyklaineanone** $C_{20}H_{28}O_8$ M 396.436Constit. of *Eurycoma longifolia*. Cytotoxic. Cryst. Mp 134-135°. $[\alpha]_D + 53.8^\circ$ (c, 0.29 in MeOH).*20-Hydroxy*: [92678-86-9]. **Shinulactone G** $C_{20}H_{28}O_7$ M 380.437Isol. from *Ailanthus altissima*. Cryst. Mp 274-277°. $[\alpha]_D^{26} + 6.5^\circ$ (c, 1.2 in Py).*11-Ketone*: **11-Dehydroklaineanone** $C_{20}H_{26}O_6$ M 362.422Constit. of *E. longifolia*. Needles. Mp 141-142°. $[\alpha]_D - 14.2^\circ$ (c, 0.11 in MeOH). Δ^4 -Isomer, *14β,15β-dihydroxy, 2α-alcohol*: $C_{20}H_{30}O_8$ M 398.452

Constit. of *E. longifolia*. Cryst. (toluene). Mp 148-150°. $[\alpha]_D^{25} +93.7^\circ$ (c, 0.19 in MeOH).

Polonsky, J. *et al*, *Bull. Soc. Chim. Fr.*, 1965, 2793.
 Polonsky, J. *et al*, *C. R. Hebd. Seances Acad. Sci.*, 1975, **280**, 1149
 (15-Hydroxyklaineanone)
 Ishibashi, M. *et al*, *Bull. Chem. Soc. Jpn.*, 1984, **57**, 2013
 (Shinjulactone G)
 Morita, H. *et al*, *Chem. Lett.*, 1990, 749 (Dihydroxyklaineanone)
 Itokawa, H. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 1053; 1993, **41**,
 403 (Dehydroklaineanone, deriv)

Kobutimycin A

[145458-91-9]

R = CH₃C₁₉H₂₅NO₅ M 347.410

Prod. by a *Streptomyces* sp. Oil. $[\alpha]_D^{25} +88.2^\circ$ (c, 1 in CHCl₃).

Kanbe, K. *et al*, *J. Antibiot.*, 1992, **45**, 1700 (*isol, pmr, cmr, struct*)

Kobutimycin B

[145458-92-0]

As Kobutimycin A, K-10014 with

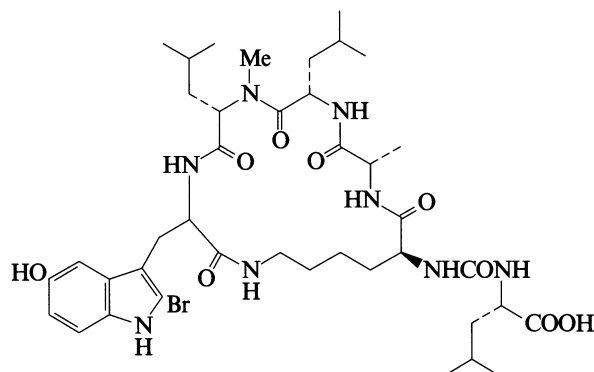
R = CH₂CH₃C₂₀H₂₇NO₅ M 361.437

Prod. by a *Streptomyces* sp. Oil. $[\alpha]_D^{25} +107.2^\circ$ (c, 1 in CHCl₃).

Kanbe, K. *et al*, *J. Antibiot.*, 1992, **45**, 1700 (*isol, pmr, cmr, struct*)

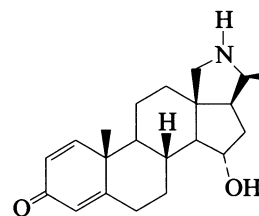
K-10014**Konbanamide**

[136466-02-9]

K-10016C₄₀H₆₁BrN₈O₉ M 877.874

Cyclic hexapeptide. Constit. of the sponge *Theonella* sp.
 Calmodulin antagonist. $[\alpha]_D^{21} -43^\circ$ (c, 0.042 in MeOH).

Kobayashi, J. *et al*, *J. Chem. Soc., Chem. Commun.*, 1991, 1050
 (*isol, pmr, cmr*)

Kurchinidine**K-10017**C₂₁H₂₉NO₂ M 327.466

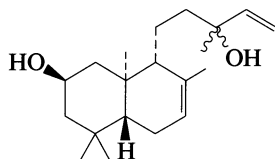
Alkaloid from bark of *Holarrhena pubescens*
 (Apocynaceae). Plates (CHCl₃/MeOH). Mp 114-116°.

Siddiqui, B.S. *et al*, *Phytochemistry*, 1993, **33**, 925 (*isol, uv, ir, pmr, ms, struct*)

L

7,14-Labdadiene-2,13-diol

Updated Entry replacing L-00013



$C_{20}H_{34}O_2$ M 306.487

(ent-2 α ,13 ξ)-form

Constit. of *Ixiolaena leptolepis*. Oil.

(2 ξ ,13 ξ)-form [73947-03-2] **Salicifoliol†**

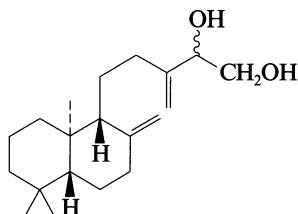
Constit. of *Stevia salicifolia*.

Ortega, A. *et al*, *Rev. Latinoam. Quim.*, 1980, **11**, 45 (*Salicifoliol*)

Lehmann, L. *et al*, *Phytochemistry*, 1988, **27**, 2994.

8(17),13(16)-Labdadiene-14,15-diol

L-10002



$C_{20}H_{34}O_2$ M 306.487

(ent-14 ξ)-form [150036-53-6]

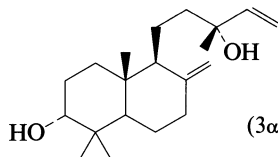
Constit. of *Erythroxylyon pictum*.

Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 945 (*isol*, *pmr*, *cmr*)

8(17),14-Labdadiene-3,13-diol

L-10003

Updated Entry replacing L-00029



(3 α ,13R)-form

$C_{20}H_{34}O_2$ M 306.487

(3 α ,13R)-form

Constit. of *Juniperus pseudosabina*. Cryst. (hexane/ C_6H_6). Mp 75-76°. $[\alpha]_D^{30} +14.6^\circ$ (c, 0.8 in $CHCl_3$).

3-Ketone: 13R-Hydroxy-8(17),14-labdadien-3-one

$C_{20}H_{32}O_2$ M 304.472

From *J. pseudosabina*. Cryst. (MeOH). Mp 72-73°. $[\alpha]_D^{30} +25.7^\circ$ (c, 1.628 in $CHCl_3$).

(ent-3 α ,13S)-form

ent-3 α -Hydroxy-13-epimanolol

Isol. from *Croton sublyratus*. Cryst. (Me_2CO). Mp 86-87°. $[\alpha]_D^{21} -30.4^\circ$ (c, 1 in $CHCl_3$).

3-Ac:

$C_{22}H_{36}O_3$ M 348.525

Constit. of *J. pseudosabina*. Semi-solid. $[\alpha]_D^{30} +37.9^\circ$ ($CHCl_3$).

Di-Ac:

$C_{24}H_{38}O_4$ M 390.562

Constit. of *J. pseudosabina*. Semi-solid.

(ent-3 α ,13R)-form

3 β -Hydroxymanool. ent-3 β -Hydroxymanool

Constit. of *Erythroxylyon pictum*. Needles (hexane). Mp 114-115°. $[\alpha]_D -24^\circ$ (EtOH).

3-Ketone: ent-13R-Hydroxy-8(17),14-labdadien-3-one. 3-Oxomanool

$C_{20}H_{32}O_2$ M 304.472

Constit. of *E. pictum*. Gum. $[\alpha]_D -21^\circ$ (EtOH).

3 β ,13S-form

3 β -Hydroxy-13-epimanolol

Constit. of *Albies pinsapo*. Syrup. $[\alpha]_D +17.6^\circ$ (c, 3.32 in $CHCl_3$).

Kitazawa, E. *et al*, *Phytochemistry*, 1981, **20**, 287 (*isol*)

Pandita, K. *et al*, *Indian J. Chem., Sect. B*, 1987, **26**, 453 (*isol*)

Dhar, K.L. *et al*, *Indian J. Chem., Sect. B*, 1990, **29**, 911 (*isol*, *pmr*, *chr*)

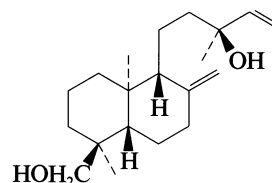
Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 945 (*isol*, *pmr*, *cmr*)

Barrero, A.F. *et al*, *Phytochemistry*, 1993, **32**, 1261 (*isol*, *pmr*, *cmr*)

Torrenegra, R. *et al*, *Phytochemistry*, 1994, **35**, 195 (*ent-3 β -Hydroxymanool*)

8(17),14-Labdadiene-13,18-diol

L-10004



$C_{20}H_{34}O_2$ M 306.487

(ent-13R)-form [150134-40-0]

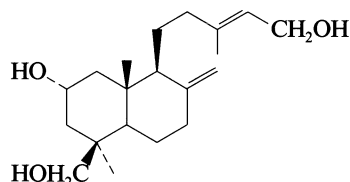
18-Hydroxymanool

Constit. of *Erythroxylyon pictum*. Needles (hexane). Mp 133-135°. $[\alpha]_D -26^\circ$ (CH_2Cl_2).

Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 945 (*isol*, *pmr*, *cmr*)

8(17),13-Labdadiene-2,15,19-triol

L-10005



$C_{20}H_{34}O_3$ M 322.487

(2 α ,13E)-form

15-O- β -D-Glucopyranoside: [149182-79-6]. **Gomojoside N**

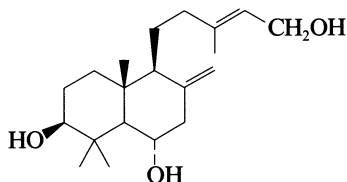
$C_{26}H_{44}O_8$ M 484.629

Constit. of *Viburnum suspensum*. Amorph. powder. $[\alpha]_D -42.9^\circ$ (c, 0.16 in MeOH).

Iwagawa, T. *et al*, *Phytochemistry*, 1993, **32**, 1515 (*isol*, *pmr*, *cmr*)

8(17),13-Labdadiene-3,6,15-triol

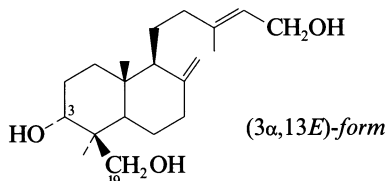
L-10006

 $C_{20}H_{34}O_3$ M 322.487**(3β,6α,13E)-form**15-O-β-D-Glucopyranoside: [149182-80-9]. *Gomojoside O* $C_{26}H_{44}O_8$ M 484.629Constit. of *Viburnum suspensum*. Amorph. powder. $[\alpha]_D$
–28.1° (c, 0.21 in MeOH).Iwagawa, T. *et al*, *Phytochemistry*, 1993, **32**, 1515 (*isol*, *pmr*, *cmr*)

8(17),13-Labdadiene-3,15,19-triol

L-10007

Updated Entry replacing D-02141

 $C_{20}H_{34}O_3$ M 322.487**(3α,13E)-form**19-Aldehyde: [117254-99-6]. 3,15-Dihydroxy-8(17),13-labdadien-19-al. **3α-Hydroxyisoagatholal** $C_{20}H_{32}O_3$ M 320.471Constit. of *Juniperus thurifera*. Cryst. (CH₂Cl₂/hexane).
Mp 129°. $[\alpha]_D^{23}$ –0.7° (CHCl₃).

19-Carboxylic acid, 3-Ac: 3-Acetoxy-15-hydroxy-8(17),13-labdadien-19-oic acid

 $C_{22}H_{34}O_5$ M 378.508Constit. of *J. thurifera*. $[\alpha]_D$ +56° (c, 0.1 in CHCl₃) (Me ester).**(3β,13E)-form**15-O-β-D-Glucopyranoside: *Gomojoside M* $C_{26}H_{44}O_8$ M 484.629Constit. of *Viburnum suspensum*. Amorph. powder. $[\alpha]_D$
–43.1° (c, 0.13 in MeOH).19-Aldehyde: [117255-05-7]. **3β-Hydroxyisoagatholal** $C_{20}H_{32}O_3$ M 320.471Cryst. (CH₂Cl₂/hexane). Mp 134°. $[\alpha]_D^{23}$ +22.3° (CHCl₃).

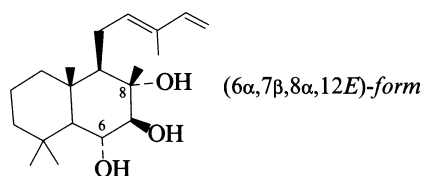
19-Aldehyde, 3-Ac: [117232-44-7].

 $C_{22}H_{34}O_4$ M 362.508Constit. of *J. thurifera*. Oil. $[\alpha]_D^{23}$ –14.5° (CHCl₃).San Feliciano, A. *et al*, *Phytochemistry*, 1988, **27**, 2241; 1993, **33**,
1165 (*isol*, *pmr*, *cmr*)Iwagawa, T. *et al*, *Phytochemistry*, 1993, **32**, 1515.

12,14-Labdadiene-6,7,8-triol

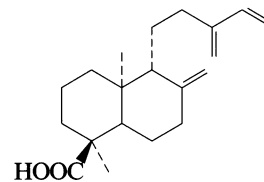
L-10008

Updated Entry replacing L-00070

 $C_{20}H_{34}O_3$ M 322.487**(6α,7β,8α,12E)-form** [70387-38-1] **6α-Hydroxynidorellol**Constit. of *Nidorella* spp. Oil.6-Angeloyl: **6α-Angeloyloxynidorellol** $C_{25}H_{40}O_4$ M 404.589Constit. of *Stevia monardaefolia*. Cryst. Mp 114-115°.
 $[\alpha]_D$ –34.8° (CHCl₃).**(6α,7β,8β,12Z)-form** [62868-75-1] **Austroinulin**Isol. from *Austroeupatorium inulaefolium* and *S. rebaudiana*. Needles (MeOH). Mp 74-77°. $[\alpha]_D^{25}$ +33.6°
(c, 0.48 in CHCl₃), $[\alpha]_D^{14}$ +24.0° (c, 0.50 in CHCl₃).6-Ac: [75207-46-4]. **6α-Acetoxy-12,14-labdadiene-7β,8β-diol** $C_{22}H_{36}O_4$ M 364.524Isol. from *S. rebaudiana*. Cryst. (EtOAc). Mp 173-174°. $[\alpha]_D^{25}$ +36.8° (c, 0.46 in CHCl₃).7-Ac: **7β-Acetoxy-12,14-labdadiene-6α,8β-diol** $C_{22}H_{36}O_4$ M 364.524From *S. rebaudiana*. Needles (hexane). Mp 148-149°. $[\alpha]_D^{16}$ +14.9° (c, 0.67 in CHCl₃).**(6β,7β,8α,12E)-form** [92694-04-7] **6β,7β-Dihydroxy-12E-abienol**. *Crotomachlin*Constit. of *Koanophyllon conglobatum* and *Croton macrostachys*. Oil. $[\alpha]_D^{24}$ +10° (c, 0.25 in CHCl₃).7-Ac: **7β-Acetoxy-12,14-labdadiene-6β,8α-diol** $C_{22}H_{36}O_4$ M 364.524From *K. conglobatum*. Oil.**(ent-6α,7β,8ξ,12Z)-form**6-Ac: [73947-04-3]. **Stevinsol** $C_{22}H_{36}O_4$ M 364.524Constit. of *Stevia salicifolia*.Bohlmann, F. *et al*, *Chem. Ber.*, 1977, **110**, 1034 (*isol*)Bohlmann, F. *et al*, *Phytochemistry*, 1978, **17**, 1769; 1984, **23**, 1190
(*isol*)Sholichin, M. *et al*, *Phytochemistry*, 1980, **19**, 326 (*isol*)Ortega, A. *et al*, *Rev. Latinoam. Quim.*, 1980, **11**, 45 (*Stevinsol*)Quijano, L. *et al*, *Phytochemistry*, 1982, **21**, 1369 (*isol*)Darise, M. *et al*, *Agric. Biol. Chem.*, 1983, **47**, 133 (*isol*, *struct*, *abs*
config)Herlem, D. *et al*, *Tetrahedron Lett.*, 1993, **34**, 5587 (*synth*)

8(17),13(16),14-Labdatrien-18-oic acid

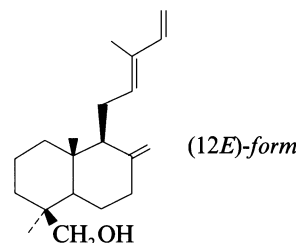
L-10009

 $C_{20}H_{30}O_2$ M 302.456**ent-form**Isol. from seed pods of *Hymenaea courbaril*.*Me ester*: $[\alpha]_D^{25}$ –17.5° (c, 0.4 in CHCl₃).Khoo, S.F. *et al*, *Tetrahedron*, 1973, **29**, 3379.

8(17),12,14-Labdatrien-19-ol

L-10010

Updated Entry replacing L-00112



C₂₀H₃₂O M 288.472**(12E)-form** [10178-31-1] **Elliotinol**

Constit. of the oleoresin of slash pine (*Pinus elliotii*) and of *Agathis australis*. Cryst. by subl. Mp 14-15°. [α]_D²⁵ +14° (c, 2 in EtOH).

p-Nitrobenzoyl: Cryst. (EtOH). Mp 128-130°. [α]_D²⁵ +74° (c, 2 in EtOH).

Carboxylic acid: [2761-77-5]. 8(17),12E,14-Labdatrien-19-oic acid. **Communic acid**

C₂₀H₃₀O₂ M 302.456

Constit. of *Juniperus*, *Cupressus*, *Pinus* spp. etc., also *Hermas villosa* and *Agathis australis*. Plates (Me₂CO/pet. ether) or oil. [α]_D²⁵ +40° (c, 1 in EtOH).

Carboxylic acid, Me ester: Cryst. (MeOH/Et₂O). Mp 105-106°. [α]_D +45° (c, 2 in CHCl₃).

(12Z)-form [1156-07-6] **Communol**

Constit. of *A. australis*. Oil.

Carboxylic acid: [1231-35-2]. 8(17),12Z,14-Labdatrien-19-oic acid. **Elliotinoic acid**

C₂₀H₃₀O₂ M 302.456

Constit. of *A. australis* and *H. villosa*. Unstable oil.

Carboxylic acid, Me ester: Cryst. by subl. Mp 41-42°. [α]_D +45° (c, 2.3 in CHCl₃).

(ent-12E)-form

Ac:

C₂₂H₃₄O₂ M 330.509

Constit. of *Jamesoniella autumnalis*. Oil. [α]_D²⁰ -9.5° (c, 0.005 in EtOH).

19-Carboxylic acid:

C₂₀H₃₀O₂ M 302.456

Constit. of *J. autumnalis*. Oil. [α]_D²⁰ -22.5° (c, 0.008 in EtOH).

(ent-9 β H,12Z)-form

Constit. of *Calceolaria densifolia*. Yellow oil (as Ac).

[α]_D²⁵ +23.8° (c, 1.85 in CHCl₃) (Ac).

(ent-12Z)-form

Malonoyl ester:

C₂₃H₃₄O₄ M 374.519

Constit. of *Calceolaria corymbosa*. [α]_D²⁵ +80.0° (c, 0.7 in CHCl₃) (as Me ester).

Narasimhachari, N. *et al*, *Can. J. Chem.*, 1961, **39**, 2572 (*isol*)

Arya, V.P. *et al*, *Tetrahedron*, 1961, **16**, 255 (*isol, struct*)

Carman, R.M. *et al*, *Aust. J. Chem.*, 1964, **17**, 395; 1966, **19**, 2403 (*isol, pmr*)

Norin, T., *Acta Chem. Scand.*, 1965, **19**, 1020 (*pmr, config*)

Joye, N.M. *et al*, *J. Org. Chem.*, 1965, **30**, 429.

Thomas, B.R., *Acta Chem. Scand.*, 1966, **20**, 1074 (*isol*)

Bohlmann, F. *et al*, *Chem. Ber.*, 1974, **107**, 1416 (*isol*)

Blechschildt, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 111 (*isol, pmr, cmr*)

Garbarino, J.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 744 (*isol, pmr, cmr*)

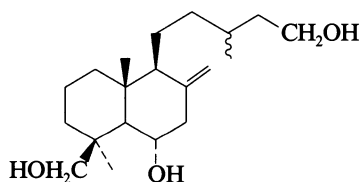
Garbarino, J.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 624 (*Malonoyl ester*)

Barrero, A.F. *et al*, *Magn. Reson. Chem.*, 1993, **31**, 299 (*cmr*)

8(17)-Labdene-6,15,19-triol

L-10011

Updated Entry replacing L-00141

C₂₀H₃₆O₃ M 324.503**(6 α ,13 ξ)-form**15-O- β -D-Glucopyranoside: **Gomojoside L**C₂₆H₄₆O₈ M 486.645

Constit. of *Viburnum suspensum*. Amorph. powder. [α]_D -56.7° (c, 0.15 in MeOH).

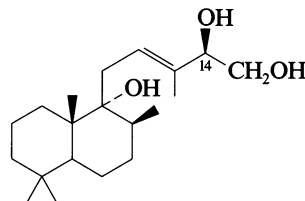
15,19-Di-O- β -D-Glucopyranoside: [142570-03-4]. **Gomojoside F**C₃₂H₅₆O₁₃ M 648.787

Constit. of *V. suspensum*. Amorph. powder. [α]_D -72.9° (c, 0.24 in MeOH).

Iwagawa, T. *et al*, *Phytochemistry*, 1992, **31**, 1311; 1993, **32**, 1515.

12-Labdene-9,14,15-triol

L-10012

(9 α ,12E,14R)-formC₂₀H₃₆O₃ M 324.503**(9 α ,12E,14R)-form** [72059-37-1]

Constit. of *Carterothamnus anomalochaeta*.

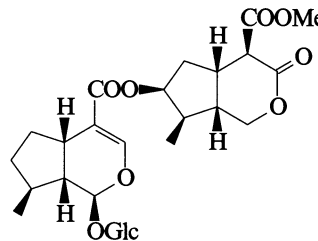
(9 α ,12E,14S)-form [72023-09-7] **Carterothamnotriol**

Constit. of *C. anomalochaeta*.

Bohlmann, F. *et al*, *Phytochemistry*, 1979, **18**, 621 (*isol, pmr*)

Laciniatoside III

L-10013

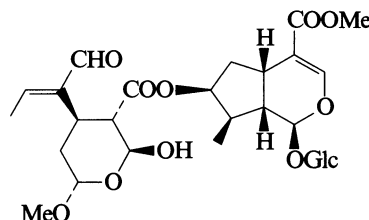
C₂₇H₃₈O₁₃ M 570.589

Constit. of *Dipsacus laciniatus*.

Kocsis, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1486 (*isol, pmr, cmr*)

Laciniatoside VI

L-10014

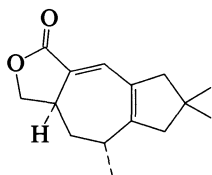
C₂₈H₄₀O₁₅ M 616.615

Constit. of *Dipsacus laciniatus*. [α]_D²⁷ -11° (c, 0.2 in MeOH).

Kocsis, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1486 (*isol, pmr, cmr*)

Lactaroscrobiculide A

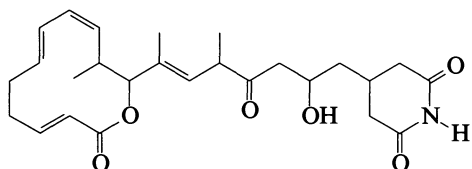
[59476-60-7]

 $C_{15}H_{20}O_2$ M 232.322Constit. of *Lactarius scrobiculatus*.De Bernardi, M. *et al*, *Chim. Ind. (Milan)*, 1976, **58**, 177 (*isol*)Battaglia, R. *et al*, *J. Nat. Prod. (Lloydia)*, 1980, **43**, 319 (*isol*)De Bernardi, M. *et al*, *Tetrahedron*, 1993, **49**, 1489 (*pmr*, *cmr*)**Lactimidomycin****L-10016**

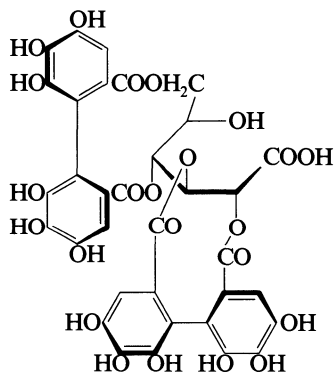
BMY 28886. BU 4146T. Antibiotic BMY 28886. Antibiotic

BU 4146T

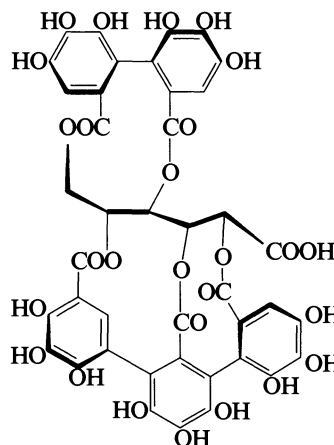
[134869-15-1]

 $C_{26}H_{35}NO_6$ M 457.566Glutarimide-lactone antibiotic. Prod. by *Streptomyces amphibiosporus*. Active against fungi and tumours. Pale yellow solid + $\frac{1}{2}H_2O$. Mp 121-125°. $[\alpha]_D^{20}$ -20° (c, 0.5 in DMSO).Sugawara, K. *et al*, *J. Antibiot.*, 1992, **45**, 1433 (*isol*, *pmr*, *cmr*, *struct*, *props*)**Lagerstannin A**

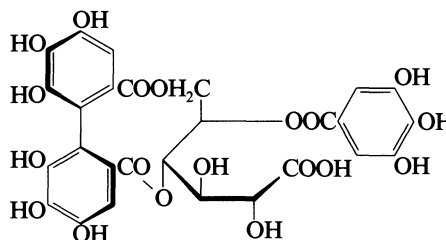
[147666-65-7]

 $C_{34}H_{24}O_{23}$ M 800.550Tannin constit. of *Lagerstroemia speciosa*. Tan amorph. powder + $\frac{1}{2}H_2O$. $[\alpha]_D^{21}$ $+76.3^\circ$ (c, 0.5 in MeOH aq.).Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2975 (*pmr*, *cmr*)**Lagerstannin B**

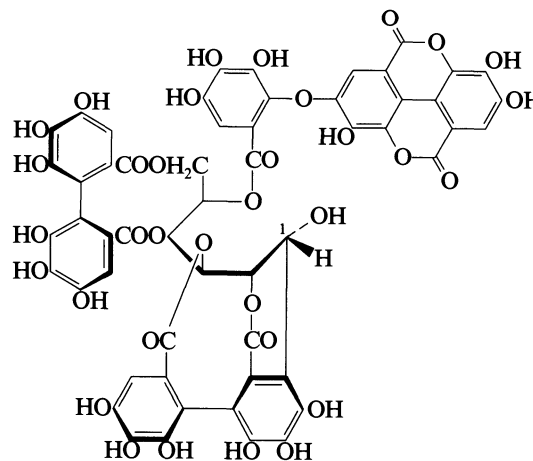
[147666-67-9]

 $C_{41}H_{26}O_{27}$ M 950.640Isol. from the fruit and leaf of *Lagerstroemia speciosa*. Tan amorph. powder + H_2O . $[\alpha]_D^{21}$ $+19.3^\circ$ (c, 0.6 in MeOH aq.).Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2975 (*pmr*, *cmr*)**Lagerstannin C****L-10019**

[133201-10-2]

 $C_{27}H_{22}O_{19}$ M 650.459Tannin derived from *Lagerstroemia speciosa*. Amorph. powder. $[\alpha]_D^{23}$ $+25.0^\circ$ (c, 0.4 in MeOH).Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2975 (*pmr*, *cmr*)**Lagerstroemin†**

[135077-05-3]

L-10020 $C_{55}H_{32}O_{34}$ M 1236.837

Ellagitannin from the leaves of *Lagerstroemia flos-reginae*.
Needles + 7H₂O (H₂O). Mp 230° dec. $[\alpha]_D^{20} + 7.3^\circ$ (c, 1.0 in Me₂CO).

l-Epimer: [135545-73-2]. **Flosin B**

C₅₅H₃₂O₃₄ M 1236.837

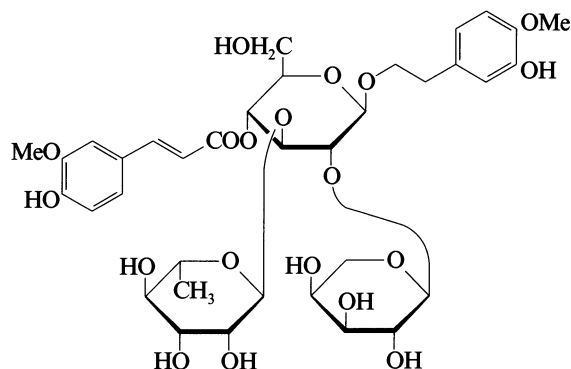
Isol. from leaves of *L. flos-reginae*. Off-white amorph. powder. $[\alpha]_D^{26} + 65^\circ$ (c, 1.4 in MeOH).

Xu, Y.-M: *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 639, 647 (*struct*, *pmr*, *cmr*)

Lagotoside

L-10021

[137319-48-3]



C₃₆H₄₈O₁₉ M 784.764

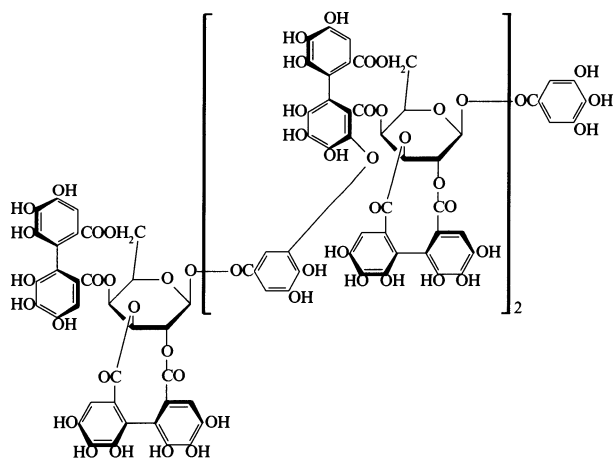
Constit. of the aerial parts of *Lagotis stolonifera*. Amorph. powder. $[\alpha]_D^{20} - 33.8^\circ$ (c, 0.334 in H₂O).

Calis, I. *et al*, *Helv. Chim. Acta*, 1991, **74**, 1273 (*isol*)

Lambertianin A

L-10022

[145851-28-1]



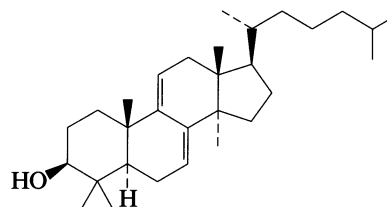
C₁₂₃H₈₀O₇₈ M 2805.938

Ellagitannin constit. of *Rosa henryi*. Off-white amorph. powder. $[\alpha]_D^{20} - 5^\circ$ (c, 1.0 in MeOH).

Yoshida, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 1997 (*uw*, *pmr*, *cmr*)

Lanosta-7,9(11)-dien-3-ol

L-10023



C₃₀H₅₀O M 426.724

3β-form [2644-75-9] **Dihydroagnosterol**. *γ*-Lanosterol

Constit. of sporophores of *Fomes* spp. Cryst. (CH₂Cl₂/MeOH). Mp 157°. $[\alpha]_D + 66.6^\circ$ (c, 1.28 in CHCl₃).

Ac: [5600-01-1].

C₃₂H₅₂O₂ M 468.762

Plates (EtOH). Mp 167-169°. $[\alpha]_D + 79.6^\circ$ (CHCl₃).

Benzoyl: [70016-51-2].

C₃₇H₅₄O₂ M 530.832

Needles (EtOAc). Mp 203-204°. $[\alpha]_D + 65^\circ$ (c, 1.11 in CHCl₃).

Ruzicka, L. *et al*, *Helv. Chim. Acta*, 1946, **29**, 204.

Cole, A.R.H. *et al*, *J. Chem. Soc.*, 1959, 1212 (*ir*)

Barton, D.H.R. *et al*, *J. Chem. Soc.*, 1963, 3675 (*benzoyl*)

Musgrave, O.C. *et al*, *J. Chem. Soc. C*, 1971, 685 (*isol*)

Govindachari, T.R. *et al*, *Tetrahedron*, 1971, **27**, 4991 (*synth*)

Pettit, G.R. *et al*, *J. Org. Chem.*, 1972, **37**, 2788 (*synth*)

Xu, S. *et al*, *J. Chromatogr.*, 1988, **452**, 377 (*tlc*, *hplc*, *glc*)

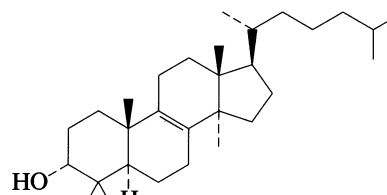
Emmons, G.T. *et al*, *Magn. Reson. Chem.*, 1989, **27**, 1012 (*pmr*, *cmr*)

Lanost-8-en-3-ol

L-10024

4,4,14-Trimethylcholest-8-en-3-ol

[6198-06-7]



C₃₀H₅₂O M 428.740

3α-form [6593-55-1]

Dihydroepilanoesterol

Mp 138-139°. $[\alpha]_D + 50^\circ$ (c, 0.8 in CHCl₃).

Ac:

C₃₂H₅₄O₂ M 470.777

Cryst. (Me₂CO). Mp 169-171°. $[\alpha]_D + 3.7^\circ$ (c, 1.3 in CHCl₃).

3β-form [79-62-9] **Dihydrolanosterol**

Constit. of numerous plant and fungal spp. Needles (MeOH). Mp 148° (146°). $[\alpha]_D^{19} + 63^\circ$ (CHCl₃).

Ac: [1724-19-2].

Cryst. (MeOH). Mp 137-138°. $[\alpha]_D + 47^\circ$ (CHCl₃).

Benzoyl:

C₃₇H₅₆O₂ M 532.848

Mp 194°. $[\alpha]_D + 68^\circ$ (CHCl₃).

9Z-Octadecenoyl: [122560-55-8]. **Dihydrolanosteroyl oleate**

C₄₈H₈₄O₂ M 693.190

Prod. by *Saccharomyces cerevisiae*.

(3β,20S)-form [78821-82-6]

20-Isodihydrolanosterol

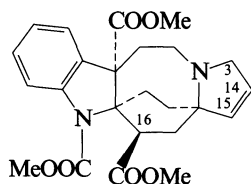
Needles (MeOH). Mp 171.5-172°. $[\alpha]_D^{19} + 33^\circ$ (c, 1 in CHCl₃).

[13879-09-9, 39701-94-5, 59684-64-9]

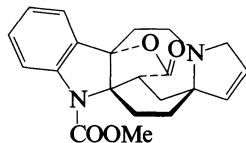
- Gafner, G. *et al*, *Acta Crystallogr.*, 1957, **10**, 603 (*cryst struct*)
 Bancroft, G. *et al*, *J. Chem. Soc.*, 1961, 3295 (*Dihydroepilanoesterol*)
 Haddad, Y.M.Y. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1974, 596
 (*Dihydroepilanoesterol*)
 Sato, Y. *et al*, *Chem. Pharm. Bull.*, 1981, **29**, 356 (*20-Isodihydroepilanoesterol*)
 Parish, E.J. *et al*, *J. Lipid Res.*, 1981, **22**, 859.
 Xu, S. *et al*, *J. Chromatogr.*, 1988, **452**, 377 (*hplc, glc, tlc*)
 Fenner, G.P. *et al*, *Lipids*, 1989, **24**, 625 (*octadecenoate*)
 Emmons, G.T. *et al*, *Magn. Reson. Chem.*, 1989, **27**, 1012 (*pmr, cmr*)
 Evershed, R.P. *et al*, *Steroids*, 1989, **53**, 285 (*ms*)

Lapidilectine A

[143070-42-2]

C₂₄H₂₈N₂O₆ M 440.495Alkaloid from bark and leaves of *Kopsia lapidilecta* (Apocynaceae). Amorph. [α]_D -33° (c, 0.8 in CHCl₃).16-Epimer: [151003-93-9]. **Isolapidilectine A**C₂₄H₂₈N₂O₆ M 440.495Alkaloid from bark and leaves of *K. lapidilecta* (Apocynaceae). Amorph. [α]_D +54° (c, 0.72 in CHCl₃).3-Oxo: [150881-25-7]. **Lapidilectam**C₂₄H₂₆N₂O₇ M 454.479Alkaloid from bark and leaves of *K. lapidilecta* (Apocynaceae). [α]_D +77° (c, 0.55 in CHCl₃).14,15-Dihydro, 15β-hydroxy: [151003-94-0]. **Lapidilectinol**C₂₄H₃₀N₂O₇ M 458.510Alkaloid from bark and leaves of *K. lapidilecta* (Apocynaceae). Amorph. [α]_D -5° (c, 0.5 in CHCl₃).14,15-Dihydro, 15α-hydroxy: [150881-26-8]. **Epilapidilectinol**C₂₄H₃₀N₂O₇ M 458.510Alkaloid from bark and leaves of *K. lapidilecta* (Apocynaceae). Amorph. [α]_D +19° (c, 0.8 in CHCl₃).Awang, K. *et al*, *Tetrahedron Lett.*, 1992, **33**, 2493 (*isol, w, pmr, cmr, ms, struct*)Awang, K. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1134 (*config*)**Lapidilectine B**

[143052-16-8]

C₂₇H₂₂N₂O₄ M 366.416Alkaloid from bark and leaves of *Kopsia lapidilecta* (Apocynaceae). Amorph. [α]_D +7.6° (c, 0.9 in CHCl₃).Awang, K. *et al*, *Tetrahedron Lett.*, 1992, **33**, 2493 (*isol, w, pmr, cmr, struct*)

L-10025

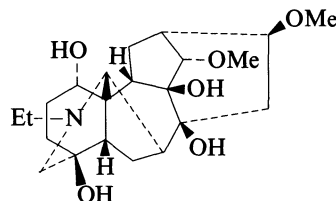
Lappaconidine

L-10027

Updated Entry replacing L-00290

Lappaconidine

[31000-13-2]

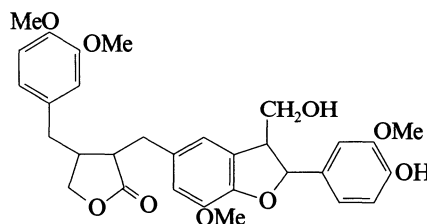
C₂₂H₃₅NO₆ M 409.522Alkaloid from the roots of *Aconitum leucostomum* (*excelsum*) (Ranunculaceae). Mp 206-207°. [α]_D +12.9° (CHCl₃). Forms benzene solvate, Mp 118-120°.

Tetra -Ac: Mp 195-197°.

O¹-Me: [23943-93-3]. **Lappaconine**C₂₃H₃₇NO₆ M 423.548Hydrol. prod. of Lappaconitine (see Puberanidine, P-02136), also detected in *A. leucostomum* (Ranunculaceae). Cryst. + 1½ H₂O (H₂O). Mp 96°. [α]_D²⁵ +27° (c, 3.17 in CHCl₃).4-O-(2-Aminobenzoyl): **4-Anthranoyllappaconidine**C₂₉H₄₀N₂O₇ M 528.644Alkaloid from roots of *Aconitum septentrionale* (Ranunculaceae). Amorph. [α]_D +48.8° (c, 0.16 in CHCl₃).Khamova, M. *et al*, *Tetrahedron Lett.*, 1964, 2711 (*ir, pmr, struct*)Marion, L. *et al*, *Can. J. Chem.*, 1967, **45**, 969 (*synth*)Mollov, N. *et al*, *Tetrahedron Lett.*, 1969, 2189 (*pmr, struct*)Birnbbaum, G.I., *Acta Crystallogr., Sect. B*, 1970, **26**, 755 (*cryst struct, Lappaconine*)Tel'nov, V.A. *et al*, *Khim. Prir. Soedin.*, 1971, **7**, 622; *Chem. Nat. Compd. (Engl. Transl.)*, 601 (*pmr, ms, isol, struct*)Pelletier, S.W. *et al*, *Can. J. Chem.*, 1979, **57**, 1652 (*cmr*)Plugar, V.N. *et al*, *Khim. Prir. Soedin.*, 1982, **18**, 80; *Chem. Nat. Compd. (Engl. Transl.)*, 75 (*glc, ms*)Sayed, H.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1595 (*4-Anthranoyllappaconidine*)**Lappaol B**

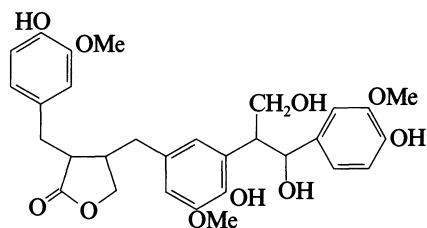
L-10028

[62359-60-8]

C₃₁H₃₄O₉ M 550.604Isol. from seeds of *Arctium lappa*. [α]_D²⁰ -19.4° (c, 1.0 in MeOH).Ichihara, A. *et al*, *Tetrahedron Lett.*, 1976, 3961 (*isol, w, pmr, ms*)

Lappaol C

[64855-00-1]

 $C_{30}H_{34}O_{10}$ M 554.593Isol. from seeds of *Arctium lappa*. Amorph. powder. $[\alpha]_D^{20}$ -55° (c, 1.0 in MeOH).Ichihara, A. *et al*, *Agric. Biol. Chem.*, 1977, **41**, 1813 (*isol, uv, ir, pmr*)**L-10029**

alkaloid from *Heliotropium europaeum*, *H. lasiocarpum*, *H. arbainense*, *H. curassavicum*, *H. eichwaldii*, *H. indicum* and other *H. spp.* (Boraginaceae). Hepatotoxin, causes liver damage in grazing animals. Shows activity against hepatoma and sarcoma 45. Plates (pet. ether). Mp 95.5-97°. $[\alpha]_D^{16}$ -3.5° (c, 2.0 in EtOH), $[\alpha]_D^{16}$ $+0.9^\circ$ (c, 6.3 in $CHCl_3$).

▷ Carcinogenic. Highly toxic. OE7875000.

N-Oxide: [127-30-0]. **Lasiocarpine N-oxide** $C_{21}H_{33}NO_8$ M 427.494From *H. europaeum* (Boraginaceae). Prisms or needles. Mp 134-135° dec. (variable). $[\alpha]_D^{17}$ $+13.1^\circ$ (c, 4.97 in EtOH).

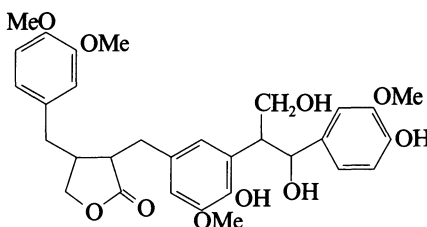
▷ OE7900000.

O³-Ac: [57538-10-0]. **Acetylasiocarpine** $C_{23}H_{35}NO_8$ M 453.531From *H. europaeum* (Boraginaceae). Noncryst. $[\alpha]_D^{20}$ -0.9° (c, 2 in EtOH).O³-Ac, N-oxide: **3'-Acetylasiocarpine N-oxide** $C_{23}H_{35}NO_9$ M 469.531Alkaloid from aerial parts of *H. hirsutissimum* (Boraginaceae). Gummy solid. $[\alpha]_D^{20}$ $+10^\circ$ (c, 0.27 in $CHCl_3$). Named 4'-Acetylasiocarpine N-oxide in the lit.3'-Deoxy: [56317-17-0]. **7-Angelylheliotrine** $C_{21}H_{33}NO_6$ M 395.495Minor alkaloid from *H. eichwaldii* (Boraginaceae). $[\alpha]_D^{16}$ -13.77° (c, 0.8 in EtOH). Ester of heliotridine with angelic and heliotrinic acids.

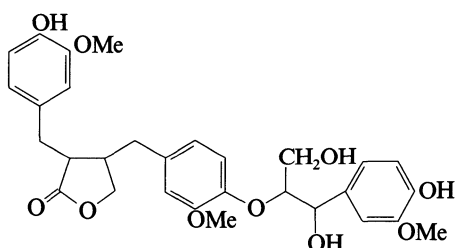
3'-Deoxy, picrate: Mp 191-193°.

Culvenor, C.C.J. *et al*, *Aust. J. Chem.*, 1954, **7**, 277, 287; 1975, **28**, 2319 (*struct, Acetylasiocarpine*)Mattocks, A.R., *Nature (London)*, 1968, **217**, 723 (*tox*)Šimánek, V. *et al*, *Collect. Czech. Chem. Commun.*, 1969, **34**, 1832 (*uv*)Pedersen, E. *et al*, *Org. Mass Spectrom.*, 1970, **4**, 249 (*ms*)Culvenor, C.C.J. *et al*, *J. Chem. Soc. C*, 1971, 3653 (*cd*)Suri, O.P. *et al*, *Indian J. Chem.*, 1975, **13**, 505 (*7-Angelylheliotrine*)Mody, N.V. *et al*, *J. Nat. Prod. (Lloydia)*, 1979, **42**, 417 (*cmr*)Hay, D.G. *et al*, *Acta Crystallogr., Sect. B*, 1982, **38**, 155 (*cryst struct*)Jones, A.J. *et al*, *Aust. J. Chem.*, 1982, **35**, 1173 (*cmr*)Constantinidis, T. *et al*, *Phytochemistry*, 1993, **32**, 1335(*Acetylasiocarpine N-oxide*)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, LBG000.**Lappaol D**

[64855-01-2]

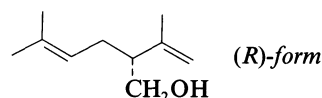
 $C_{31}H_{36}O_{10}$ M 568.619Isol. from the seeds of *Arctium lappa*. Amorph. powder.Ichihara, A. *et al*, *Agric. Biol. Chem.*, 1977, **41**, 1813 (*isol, ir, pmr*)**L-10030****Lappaol E**

[64855-02-3]

 $C_{30}H_{34}O_{10}$ M 554.593Isol. from seeds of *Arctium lappa*. $[\alpha]_D^{20}$ -26.56° (c, 1.0 in MeOH).Ichihara, A. *et al*, *Agric. Biol. Chem.*, 1977, **41**, 1813 (*isol, uv, ir, pmr*)**L-10031****Lavandulol****L-10033**

Updated Entry replacing L-00380

5-Methyl-2-(1-methylethenyl)-4-hexen-1-ol, 9CI. 2-Isopropenyl-5-methyl-4-hexen-1-ol

 $C_{10}H_{18}O$ M 154.252

Both the parent alcohol and its simple esters (esp. the acetate) are used in perfumery.

(R)-form [498-16-8]

Constit. of French lavender oil. Bp₁₃ 94-95°. $[\alpha]_D^{20}$ -10.7° (c, 1.01 in MeOH) (opt. pure).

▷ MP8623000.

O-[α-L-Arabinopyranosyl-(1→6)-β-D-glucopyranoside]:

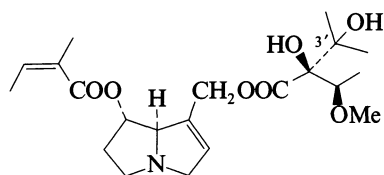
Kenposide B $C_{21}H_{36}O_{10}$ M 448.509Constit. of *Hovenia dulcis*. Oil. $[\alpha]_D$ -41.6° (c, 4.5 in MeOH).

(S)-form [50373-53-0]

 $[\alpha]_D^{20}$ $+10.11^\circ$ (pure substance) (opt. pure).**Lasiocarpine**

Updated Entry replacing L-00308

[303-34-4]

 $C_{21}H_{33}NO_7$ M 411.494

Diester of heliotridine with angelic (see 2-Methyl-2-butenic acid, M-00844) and lasiocarpic acids. Major

L-10032

(±)-form [1845-51-8] d_4^{17} 0.880. Bp₆ 100-101°. n_D^{17} 1.4710.

Ac: [25905-14-0].

 $C_{12}H_{20}O_2$ M 196.289 d_4^{20} 0.977. Bp₁₂ 143-144°. n_D^{20} 1.4560.

▷ Skin irritant.

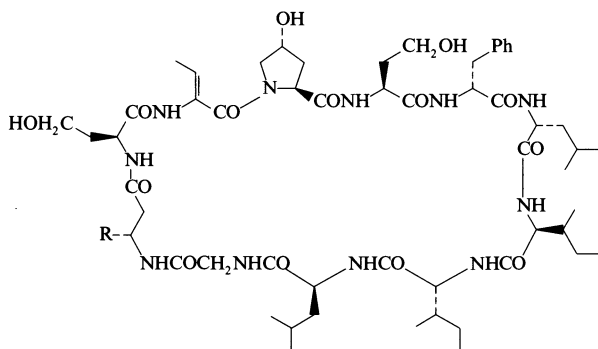
[20777-39-3]

Schinz, H. *et al*, *Helv. Chim. Acta*, 1947, **30**, 1483 (*synth*)Soucek, M. *et al*, *Collect. Czech. Chem. Commun.*, 1959, **24**, 3802(*abs config*)Baba, S.N. *et al*, *Tetrahedron*, 1966, **22**, 903 (*synth, rev*)Banthorpe, D.V. *et al*, *Phytochemistry*, 1977, **16**, 85 (*biosynth*)Bertrand, M. *et al*, *Tetrahedron Lett.*, 1977, 1785 (*synth*)Kramer, A. *et al*, *Helv. Chim. Acta*, 1982, **65**, 293 (*synth, ir, pmr, bibl*)Takano, S. *et al*, *J. Org. Chem.*, 1985, **50**, 931 (*synth*)Celebuski, J. *et al*, *Tetrahedron*, 1985, **41**, 5741 (*synth*)Ford, R.A. *et al*, *Food Chem. Toxicol.*, 1992, **30**, 55S (*rev, tox*)Yoshikawa, K. *et al*, *Phytochemistry*, 1993, **34**, 1431 (*Kenposide B*)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, LCA100.**Laxaphycin A****L-10034**

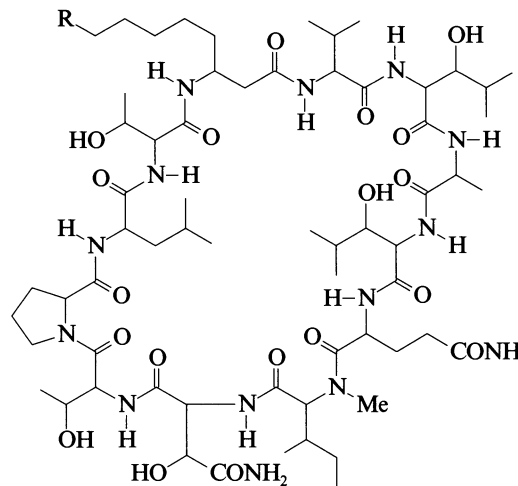
Updated Entry replacing H-01052

Hormothamnin A

[120500-21-2]

R = (CH₂)₄CH₃ $C_{60}H_{97}N_{11}O_{14}$ M 1196.492Cyclic undecapeptide antibiotic. Laxaphycin A and Hormothamnin A have same gross struct. but may be the same or stereoisomers. Stereochem. shown detd. for Hormothamnin A. Prod. by the cyanobacterium *Hormothamnion enteromorphoides* and the blue-green alga *Anabaena laxa*. Cytotoxic. Powder.Frankmoelle, W.P. *et al*, *J. Antibiot.*, 1992, **45**, 1451, 1458(*Laxaphycin A*)Gerwick, W.H. *et al*, *Tetrahedron*, 1992, **48**, 2313 (*Hormothamnin A*)**Laxaphycin B****L-10035**

[144941-08-2]

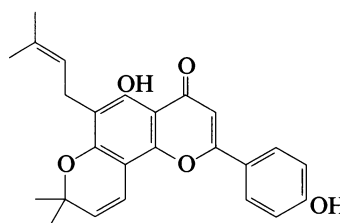
R = CH₂CH₃ $C_{65}H_{114}N_{14}O_{19}$ M 1395.698Cyclic peptide antibiotic. Isol. from the blue-green alga *Anabaena laxa*. Antifungal agent.Frankmoelle, W.P. *et al*, *J. Antibiot.*, 1992, **45**, 1451, 1458 (*isol, pmr, cmr, struct, props*)**Laxaphycin E****L-10036**

[144941-11-7]

As Laxaphycin A, L-10034 with

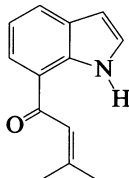
R = (CH₂)₆CH₃ $C_{62}H_{101}N_{11}O_{14}$ M 1224.545Cyclic peptide antibiotic. Isol. from the blue-green alga *Anabaena laxa*. Antifungal agent.Frankmoelle, W.P. *et al*, *J. Antibiot.*, 1992, **45**, 1451, 1458 (*isol, pmr, cmr, struct, props*)**Laxifolin****L-10037**

[144049-81-0]

 $C_{25}H_{24}O_5$ M 404.462Constit. of the roots of *Derris laxiflora*. Mp 259-260°.Lin, Y.-L. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 3132 (*isol, pmr, cmr*)**Legnodulic acid****L-10038**Struct. unknown. Constit. of the root nodules of *Vicia faba*. Hexagonal plates. Mp >250° dec.Ishida, Y. *et al*, *Yakugaku Zasshi*, 1959, **79**, 790; *CA*, **53**, 19049h (*isol*)

Leiocarpone**L-10039**

1-(1*H*-Indol-7-yl)-3-methyl-2-buten-1-one, 9*CI*. 7-(3-Methyl-2-butenoyl)-1*H*-indole. 2,2-Dimethylvinyl 7-indolyl ketone [105205-52-5]



$C_{13}H_{13}NO$ M 199.252

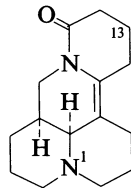
Isol. from the roots of *Esenbeckia leiocarpa*. Cryst. Sensitive to light and air.

Moyer, M.P. *et al*, *J. Org. Chem.*, 1986, **51**, 5106 (*synth*, *pmr*)
Delle Monache, F. *et al*, *Gazz. Chim. Ital.*, 1990, **120**, 387 (*isol*, *pmr*, *cmr*)

Leontalbinine**L-10040**

Updated Entry replacing L-00422

7,11-Didehydromatridin-15-one, 9*CI*. 7,11-Dehydromatrine [46862-63-9]



Relative
configuration

$C_{15}H_{22}N_2O$ M 246.352

Alkaloid from *Leontice albertii* and flowers of *Sophora flavescens* (Leonticaceae, Leguminosae). Prisms (Et₂O). Mp 107-108°. $[\alpha]_D^{24}$ -137.2° (EtOH).

N¹-Oxide: Leontalbinine N-oxide

$C_{15}H_{22}N_2O_2$ M 262.351

Minor alkaloid from seeds of *S. flavescens* var. *angustifolia* (Leguminosae). $[\alpha]_D$ -161.7° (EtOH).

13-Hydroxy: [20078-85-7]. **Albertine**. 7,11-Didehydro-13-hydroxymatridin-15-one, 9*CI*. 13-Hydroxy-7,11-dehydromatrine

$C_{15}H_{22}N_2O_2$ M 262.351

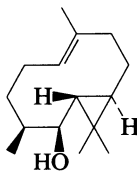
Alkaloid from *L. albertii* (Leonticaceae). Mp 161°. $[\alpha]_D$ -101°.

[16665-57-9]

Iskandarov, S. *et al*, *Khim. Prir. Soedin.*, 1967, **3**, 26; 1968, **4**, 137; 1972, **8**, 628; *Chem. Nat. Compd. (Engl. Transl.)*, 21, 118, 596 (*isol*, *struct*)

Murakoski, I. *et al*, *Phytochemistry*, 1982, **21**, 2379 (*isol*, *ms*, *uv*, *pmr*, *cmr* *struct*)

Sekine, T. *et al*, *Yakugaku Zasshi*, 1993, **113**, 53; *CA*, **118**, 251444x (*oxide*)

1(10)-Lepidozen-5-ol**L-10041**

$C_{15}H_{26}O$ M 222.370

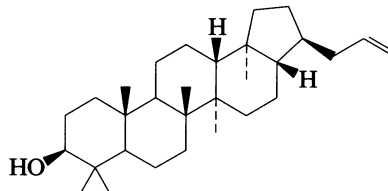
(1(10)*E*,4*S*^{*},5*S*^{*},6*R*^{*},7*R*^{*})-form [146564-20-7]

Constit. of *Trochelejeunea sandvicensis*. Oil. $[\alpha]_D$ -29.9° (c, 1.22 in CHCl₃).

Tori, M. *et al*, *Phytochemistry*, 1993, **32**, 335 (*isol*, *pmr*, *cmr*)

Leptadenol**L-10042**

[147526-84-9]



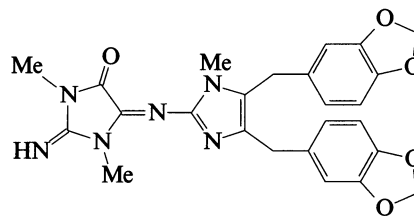
$C_{30}H_{50}O$ M 426.724

Constit. of *Lepetadenia pyrotechnica*.

Noor, F. *et al*, *Phytochemistry*, 1993, **32**, 211 (*isol*, *pmr*)

Leucettamidine**L-10043**

[147395-97-9]



$C_{25}H_{24}N_6O_5$ M 488.502

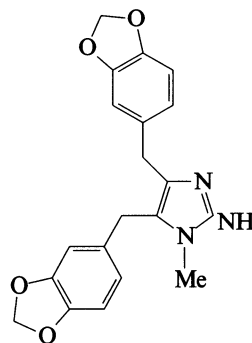
Alkaloid from the marine sponge *Leucetta microraphis*. Exhibits significant leukotriene B₄ receptor binding activity.

Chan, G.W. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 116 (*isol*, *pmr*, *struct*)

Leucettamine A**L-10044**

4,5-Bis(1,3-benzodioxol-5-ylmethyl)-1-methyl-1*H*-imidazol-2-amine, 9*CI*

[147395-95-7]



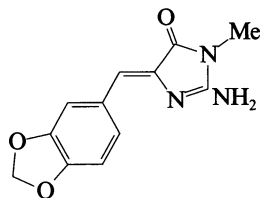
$C_{20}H_{19}N_3O_4$ M 365.388

Alkaloid from the marine sponge *Leucetta microraphis*. Exhibits potent leukotriene B₄ receptor binding activity. Yellowish amorph. solid.

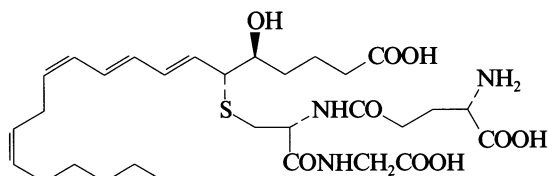
Chan, G.W. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 116 (*isol*, *uv*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

Leucettamine B

[147395-96-8]

C₁₂H₁₁N₃O₃ M 245.237Alkaloid from the marine sponge *Leucetta microraphis*.
Cream solid.Chan, G.W. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 116 (*isol, uv, ir, pmr, cmr, ms, struct*)**Leukotriene C₄**

L-10046

N-[S-[1-(4-Carboxy-1-hydroxybutyl)-2,4,6,9-pentadecatetraenyl]-N-L-γ-glutamyl-L-cysteiny]glycine, 9CI.
Leukotriene C. Leukotriene C₁
[72025-60-6]C₃₀H₄₇N₃O₉S M 625.782Constit. of the slow reacting substance of anaphylaxis.
Isol. from mouse mastocytoma cells and human polymorphonuclear leukocytes. Metab. of arachidonic acid. Important agonist in asthma and various forms of hypersensitivity.**(11E)-form** [74841-69-3]*11-trans*-Leukotriene C₄, Leukotriene C₂

Constit. of the slow reacting substance of anaphylaxis.

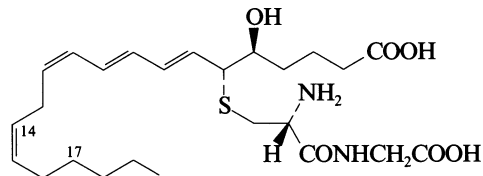
Isol. from human polymorphonuclear leukocytes. Slow reacting substance. Uv λ_{max} 278 (ε 40000) nm.**N-Methyl:** [131391-65-6]. *N-Methylleukotriene C₄*C₃₁H₄₉N₃O₉S M 639.809Metabolically stable LTC₄ mimetic. Solid.**Me-ester:** [89286-84-0].C₃₁H₄₉N₃O₉S M 639.809

No phys. props. reported.

[112924-15-9]

Murphy, R.C. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1979, **76**, 4275 (*isol*)Hammarstroem, S. *et al*, *Biochem. Biophys. Res. Commun.*, 1980, **92**, 946 (*struct*)Hansson, G. *et al*, *FEBS Lett.*, 1980, **122**, 87 (*isol*)Corey, E.J. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 1436, 4278 (*synth*)Corey, E.J. *et al*, *Tetrahedron Lett.*, 1980, **21**, 3143; 1982, **23**, 2351 (*synth*)Koenig, W. *et al*, *Monogr. Allergy*, 1983, **18**, 201 (*Me ester*)Green, R.H. *et al*, *Tetrahedron*, 1983, **39**, 1687 (*rev*)Baker, S.R. *et al*, *Prostaglandins*, 1990, **40**, 445 (*N-Me*)Gareau, Y. *et al*, *J. Org. Chem.*, 1993, **58**, 1582 (*synth, pmr*)**Leukotriene D₄**

L-10047

Leukotriene D. N-[S-[1-(4-Carboxy-1-hydroxybutyl)-2,4,6,9-pentadecatetraenyl]-L-cysteiny]glycine, 9CI
[73836-78-9]C₂₅H₄₀N₂O₆S M 496.667

Constit. of the slow reacting substance of anaphylaxis.

Isol. from cat basophilic leukaemic cells and from human lung. Metab. of arachidonic acid. Agonist in various forms of hypersensitivity of the lung including asthma and allergic rhinitis.

17,18Z-Didehydro: [79695-13-9]. Leukotriene D₅C₂₅H₃₈N₂O₆S M 494.651

Prod. by incubation of 5,8,11,14,17-Eicosapentaenoic acid, E-00083 with rat leukaemia cells. Slow reacting substance.

14,15-Dihydro: [77165-74-3]. Leukotriene D₃C₂₅H₄₂N₂O₆S M 498.683

Prod. from 5,8,11,14,17-Eicosapentaenoic acid, E-00083 by incubation with rat leukaemia or mouse mastocytoma cells. Slow reacting substance.

Me ester: [89286-83-9].C₂₆H₄₂N₂O₆S M 510.694

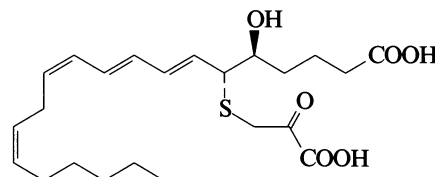
Induces blood vessel contraction.

11-trans-form [79768-40-4]*11-trans*-Leukotriene D₄Biologically less active than *11-cis*-LTD₄. No phys. props. reported.

[122331-00-4]

Oerning, L. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1980, **77**, 2014 (*isol, struct*)Lewis, R.A. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1980, **77**, 3710 (*isol*)Corey, E.J. *et al*, *Tetrahedron Lett.*, 1980, **21**, 3143; 1982, **23**, 2351 (*synth*)Baker, S.R. *et al*, *Biochem. Biophys. Res. Commun.*, 1981, **103**, 1258 (*synth, biochem*)Oerning, L. *et al*, *Eur. J. Biochem.*, 1981, **120**, 41 (*derivs*)Hammerstroem, S., *J. Biol. Chem.*, 1981, **256**, 2275.Krell, R.D. *et al*, *Prostaglandins*, 1981, **22**, 387 (*biochem*)Baker, S.R. *et al*, *Prostaglandins*, 1982, **23**, 569 (*biochem*)Spur, B. *et al*, *Arch. Pharm. (Weinheim, Ger.)*, 1983, **316**, 289; 1984, **317**, 280 (*synth, deriv*)Green, R.H. *et al*, *Tetrahedron*, 1983, **39**, 1687 (*rev*)Kimura, I. *et al*, *Jpn. J. Pharmacol.*, 1989, **50**, 253 (*Me ester, biochem*)**Leukotriene G₄**

L-10048

6-[(2-Carboxy-2-oxoethyl)thio]-5-hydroxy-7,9,11,14-eicosatetraenoic acid
[117675-20-4]C₂₃H₃₄O₆S M 438.584

Formed by transamination of Leukotriene E₄, L-00504 by cysteine conjugate aminotransferase. Leukotriene E₄, L-00504 metab. in kidney and liver.

Tomisawa, H. *et al*, *Biochem. Biophys. Res. Commun.*, 1988, **155**, 1119.

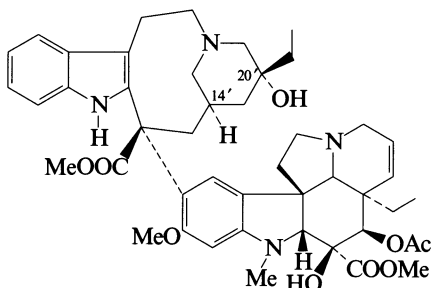
Leurosidine

L-10049

Updated Entry replacing L-00507

Vinrosidine, INN. Lilly 36781

[15228-71-4]



Absolute configuration

C₄₆H₅₈N₄O₉ M 810.986

The stereochem. given in CA appears to be incorrect.

Given in CA as (4'α)-Vincalencoblastine (i.e.(14'α)-Vinblastine) but it is also epimeric at C-20'. Alkaloid from *Vinca rosea* (*Catharanthus roseus*) (Apocynaceae). Antineoplastic agent, toxic side effects in clinical trials. Mp 210-212° dec. [α]_D²⁵ +55.8° (c, 1 in CHCl₃).

▷ LD₅₀ (mus, ipr) 50 mg/kg. OH6350000.

B, xH₂SO₄: [18556-44-0]. *Vinrosidine sulfate*, USAN

▷ OK6126000.

N^{b'}-Oxide: **Leurosidine N^{b'}-oxide**

C₄₆H₅₈N₄O₁₀ M 826.985

Isol. from *C. roseus* (Apocynaceae). Cryst. (Me₂CO).

Mp 215-218°. [α]_D²⁵ +26° (c, 0.5 in CHCl₃).

20'-Deoxy, 20'-epimer: [20072-25-7]. **Isoleurosine**. 20'-Deoxyvinblastine. Deoxyvinblastine A.

Deoxyvincalencoblastine A

C₄₆H₅₈N₄O₈ M 794.986

Isol. from *C. roseus* (Apocynaceae). Blades (MeOH).

Mp 202-206° dec. [α]_D²⁶ +61.2° (c, 1 in CHCl₃).

N,O,O-Tri-Ac: Mp 154-159° dec. [α]_D²⁵ +12.6° (CHCl₃).

20'-Deoxy: **20'-Deoxyleurosidine**

C₄₆H₅₈N₄O₈ M 794.986

Alkaloid from the aerial parts of *C. ovalis* (Apocynaceae).

20'-Deoxy, 20'-epimer, hydroxy: [87571-01-5]. **Roseamine**

C₄₆H₅₈N₄O₉ M 810.986

Alkaloid from *Catharanthus roseus* (Apocynaceae).

Shows anticancer props. Struct. not fully elucidated.

14',20'-Diepimer: see *Vinblastine*, V-00279

Svoboda, G.H. *et al*, *J. Nat. Prod. (Lloydia)*, 1961, **24**, 213 (*isol, uv, ir*)

Svoboda, G.H. *et al*, *J. Pharm. Sci.*, 1961, **50**, 409 (*Isoleurosine*)

Neuss, N. *et al*, *Tetrahedron Lett.*, 1967, 811; 1968, 783 (*struct, Isoleurosine*)

Wenkert, E. *et al*, *Helv. Chim. Acta*, 1975, **58**, 1560 (*cmr, struct*)

Taylor, W.I. *et al*, *The Catharanthus Alkaloids*, Marcel Dekker, 1975 (*rev*)

Langlois, N. *et al*, *Tetrahedron Lett.*, 1976, 1099 (*synth, ms, pmr*)

Langlois, N. *et al*, *Helv. Chim. Acta*, 1980, **63**, 793 (20'-Deoxyleurosidine)

Mukhopadhyay, S. *et al*, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 611 (*oxide*)

El-Sayed, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1983, **46**, 517 (*Roseamine*)

Kutney, J.P. *et al*, *Heterocycles*, 1988, **27**, 1845 (*synth*)

Kuehne, M.E. *et al*, *J. Org. Chem.*, 1989, **54**, 3407 (*synth, uv, ir, pmr, cmr, ms, 20'-Deoxyleurosidine, 20'-Deoxyvinblastine*)

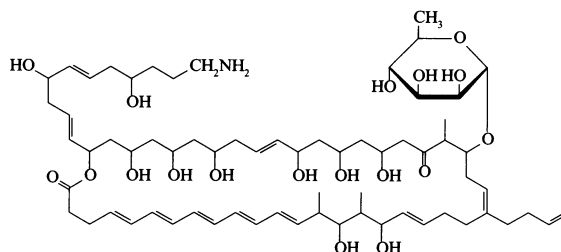
Lienomycin

L-10050

Updated Entry replacing L-00545

Antibiotic 2995

[12710-02-0]



C₆₇H₁₀₇NO₁₈ M 1214.578

Polyene-type antibiotic. From *Actinomyces diastatochromogenes* var. *lienomycini* and *A. vendargensis*. Antifungal agent with antitumour activity. Amorph. powder. [α]_D¹⁷ -27.3° (c, 1 in MeOH). Indefinite Mp.

Gauze, C.F. *et al*, *Antibiotiki (Moscow)*, 1971, **16**, 387 (*isol*)

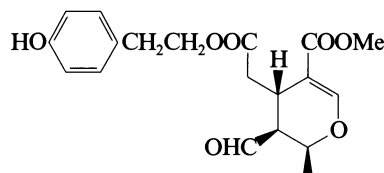
Brazhnikova, M.G. *et al*, *Antibiotiki (Moscow)*, 1971, **16**, 483.

Pawlak, J. *et al*, *J. Org. Chem.*, 1987, **70**, 2896 (*pms, ms, struct*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, LFP000.

Ligstral

L-10051



C₁₉H₂₂O₇ M 362.379

Constit. of *Fraxinus angustifolia*. Viscous liq.

Çalış, .I. *et al*, *Phytochemistry*, 1993, **33**, 1453 (*isol, pmr, cmr*)

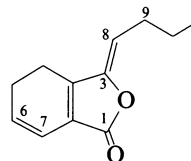
Ligustilide

L-10052

Updated Entry replacing L-00557

3-Butylidene-4,5-dihydro-1(3H)-isobenzofuranone, 9CI. 3-Butylidene-4,5-dihydrophthalide, 8CI

[4431-01-0]



C₁₂H₁₄O₂ M 190.241

Constit. of *Ligusticum* and *Angelica* spp. and other Umbelliferae (highest content found in *Cnidium officinale*). Oil. Bp₆ 168-169°.

9-Hydroxy: [94530-84-4]. **Senkyunolide F**

C₁₂H₁₄O₃ M 206.241

Constit. of *C. officinale*.

6,7-Dihydro, cis-6,7-Dihydroxy: [94596-27-7]. **Senkyunolide H**

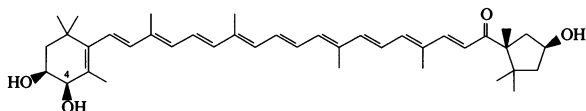
C₁₂H₁₆O₄ M 224.256

Constit. of *C. officinale* and *L. wallichii*.
 6,7-Dihydro, trans-6,7-dihydroxy:
 $C_{12}H_{16}O_4$ M 224.256
 From *L. wallichii*. Light yellow oil.
 6,7-Epoxyde: (Z)-6,7-Epoxyiligustilide
 $C_{17}H_{14}O_3$ M 206.241
 From *L. wallichii*. Oil.
 4,5-Didehydro, 7-hydroxy: 3-Butylidene-7-hydroxyphalide
 $C_{12}H_{12}O_3$ M 204.225
 Isol. from *L. wallichii*. Amorph. powder.
 3,8-Dihydro: see *Senkyunolide A*, S-00565
 9-Angeloyloxy: [112899-64-6]. *Angeloylsenkyunolide F*
 $C_{17}H_{20}O_4$ M 288.343
 Constit. of *Angelica acutiloba*. Oil. $[\alpha]_D^{25} +26^\circ$ (c, 0.7 in $CHCl_3$).
 Stahl, E. et al, *Naturwissenschaften*, 1967, **54**, 118 (isol)
 Mitsuhashi, H., *CA*, 1969, **71**, 88456 (isol)
 Nikonov, G.K. et al, *Khim. Prir. Soedin.*, 1971, **7**, 387; *Chem. Nat. Compd. (Engl. Transl.)*, 373 (isol)
 Yamagishi, T. et al, *CA*, 1975, **83**, 84751; 1976, **84**, 132662 (isol)
 Yamagishi, T. et al, *Yakugaku Zasshi*, 1977, **97**, 237 (isol)
 Pushan, W. et al, *Phytochemistry*, 1984, **23**, 2033 (deriv)
 Kobayashi, M. et al, *Chem. Pharm. Bull.*, 1985, **32**, 3770.
 Kaouadjii, M. et al, *J. Nat. Prod. (Lloydia)*, 1986, **49**, 872 (deriv)
 Tsuchida, T. et al, *Chem. Pharm. Bull.*, 1987, **35**, 4460
 (*Angeloylsenkyunolide F*)

Lilixanthin

L-10053

Updated Entry replacing L-00570
 3,3',4'-Trihydroxy- β,κ -caroten-6'-one
 [99664-47-8]

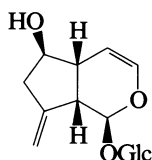


$C_{40}H_{56}O_4$ M 600.880
 Constit. of *Lilium tigrinum*. λ_{max} 283, 468 nm.
 4-Ketone: [50439-72-0]. 3,3'-Dihydroxy- β,κ -carotene-4,6'-dione. 4-Ketocapsanthin
 $C_{40}H_{54}O_4$ M 598.864
 Isol. from pollen of *Aesculus rubicunda*. λ_{max} 447 nm (C_6H_6). Stereochem. not defined.
 de la Mar, R.R. et al, *J. Food Sci.*, 1969, **34**, 287 (4-Ketocapsanthin)
 Neamtu, G. et al, *Stud. Cercet. Biochim.*, 1973, **16**, 35 (4-Ketocapsanthin)
 Maerki Fischer, E. et al, *Helv. Chim. Acta*, 1985, **68**, 1708 (occur, pmr, uv, ms)

Linarioloside

L-10054

[150395-84-9]

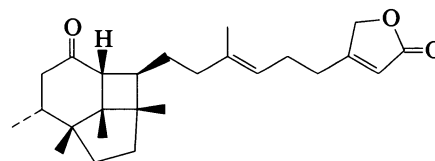


$C_{15}H_{22}O_8$ M 330.334
 Constit. of *Linaria japonica*. Amorph. powder. $[\alpha]_D^{25} -123^\circ$ (c, 0.86 in MeOH).
 Otsuka, H., *Phytochemistry*, 1993, **33**, 617 (isol, pmr, cmr)

Lintenone

L-10055

[145176-85-8]

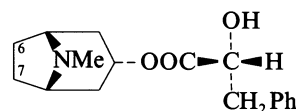


$C_{25}H_{36}O_3$ M 384.558
 Constit. of *Cacospongia* cf. *linteiformis*. Oil. $[\alpha]_D^{25} -75.5^\circ$ (c, 0.004 in $CHCl_3$).

Fattorusso, E. et al, *J. Org. Chem.*, 1992, **57**, 6921 (isol, pmr, cmr)**Littorine**

L-10056

Updated Entry replacing L-00660
 α -Hydroxybenzenepropanoic acid 8-methyl-8-azabicyclo[3.2.1]oct-3-yl ester, 9Cl. 3 α -(2-Hydroxy-3-phenylpropionyloxy)tropane. Tropan-3 α -yl phenyllactate

 $C_{17}H_{23}NO_3$ M 289.374

(R)-form [21956-47-8]

Alkaloid from *Athrocercis littorea* and *Datura sanguinea* (Solanaceae). Mp 96-97°. $[\alpha]_D^{26} -12.7^\circ$ (c, 4.42 in EtOH).

Picrate: Cryst. (EtOH). Mp 162-163°.

B,MeI: Mp 167-168°.

6,7-Epoxyde: 6,7-Epoxyllittorine

 $C_{17}H_{21}NO_4$ M 303.357Alkaloid from leaves of a *D. candida* cultivar (Solanaceae). Waxy semicryst. Tentative struct.

(±)-form

Synthetic. Powerful mydriatic agent. Cryst. (also descr. as an oil). Mp 89-90°.

B,HCl: Mp 173-175°.

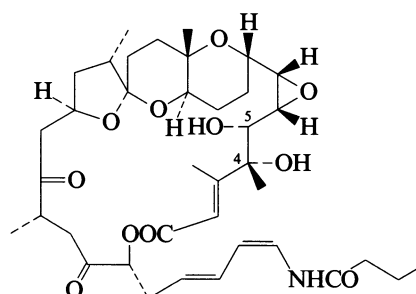
Picrate: Short yellow needles. Mp 159-160°.

[62083-53-8]

Jowett, H.A.D. et al, *J. Chem. Soc.*, 1909, **95**, 1020 (synth)Cannon, J.R. et al, *Aust. J. Chem.*, 1969, **22**, 221 (isol, struct, uv, ir)Takeuchi, Y. et al, *Chem. Pharm. Bull.*, 1971, **19**, 2603 (synth, ir, pmr)Griffin, W.J. et al, *Phytochemistry*, 1992, **31**, 367 (6,7-Epoxyllittorine)**Lituarine C**

L-10057

[143621-77-6]

 $C_{38}H_{55}NO_{11}$ M 701.853

Isol. from the sea pen *Lituaria australasiae*. Shows antifungal, cytotoxic and antineoplastic activities. Cryst. Mp 153-157°.

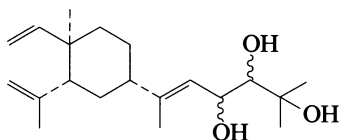
5-Ac: [143621-76-5]. **Lituarine B**
 $C_{40}H_{57}NO_{12}$ M 743.890
 From *L. australasiae*. Cryst. Mp 126-129°.

4,5-Dideoxy: [143621-75-4]. **Lituarine A**
 $C_{38}H_{55}NO_9$ M 669.854
 From *L. australasiae*. Cryst. Mp 83-85°.

Vidal, J.-P. *et al*, *J. Org. Chem.*, 1992, **57**, 5857 (*isol*, *pmr*, *cmr*, *struct*)

8,10,13(15)-Lobatriene-16,17,18-triol L-10058

[150312-95-1]



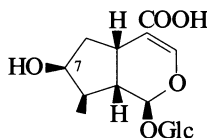
$C_{20}H_{34}O_3$ M 322.487
 Constit. of a *Lobophytum* sp. Cryst. Mp 73-75°. $[\alpha]_D^{20}$
 – 14.1° (c, 1 in $CHCl_3$).

Raju, B.L. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 961 (*isol*, *pmr*, *cmr*)

Loganic acid L-10059

Updated Entry replacing L-00690

[22255-40-9]



$C_{16}H_{24}O_{10}$ M 376.360
 Constit. of *Swertia carolinensis*.

Me ester: [18524-94-2]. **Loganin**. *Meliatin*

$C_{17}H_{26}O_{10}$ M 390.386
 Constit. of, *inter alia*, *Strychnos nux-vomica* and
Menyanthes trifoliata. Key intermed. in biosynth. of
 many alkaloids. Cryst. (EtOH). Mp 223°. $[\alpha]_D^{20}$ – 83°
 (H_2O).

Penta-Ac: Cryst. Mp 168°.

7-Ketone, *Me ester*: [152-91-0]. **Dehydrologanin**.

Ketologanin

$C_{17}H_{24}O_{10}$ M 388.371
 From *Vinca rosea* and *S. nux-vomica*. Cryst. Mp 194-
 195°. $[\alpha]_D^{21}$ – 110° (H_2O).

Me ester, *aglycone*: [29748-10-5]. **Loganetin**

$C_{11}H_{16}O_5$ M 228.244
 Constit. of *Alibertia macrophylla*. Amorph. $[\alpha]_D^{20}$ – 24°
 (EtOH).

Me ester, 7-deoxy: [26660-57-1]. **7-Deoxyloganin**

$C_{17}H_{26}O_9$ M 374.387
 Constit. of *S. nux-vomica*. *In vivo* precursor of Loganin.
 Cryst. (as tetra-Ac). Mp 115-116° (tetra-Ac).

7-O-(4-O-β-D-Glucopyranosyloxy-3-methoxycinnamoyl):

[96681-56-0]. **Periclymenosidic acid**

$C_{32}H_{42}O_{18}$ M 714.673
 Constit. of *Lonicera coerulea*. Amorph. powder. $[\alpha]_D^{20}$
 – 54.7° (c, 0.56 in MeOH).

7-O-(4-O-β-D-Glucopyranosyloxy-3-methoxycinnamoyl), *Me*

ester: [89332-48-9]. **Periclymenoside**

$C_{33}H_{44}O_{18}$ M 728.700
 Constit. of *L. periclymenum*. Amorph. powder. $[\alpha]_D^{20}$
 – 54.2° (c, 0.7 in MeOH).

7-O-[6-O-(2,3-Dihydroxybenzoyl)-β-D-glucopyranoside], 2,3-
dihydroxyphenyl ester: [96935-16-9]. **Depressoside**

$C_{35}H_{42}O_{20}$ M 782.705

Constit. of *Gentiana depressa*. Noncryst. $[\alpha]_D^{20}$ – 31° (c,
 0.175 in MeOH).

7-Epimer, 7-O-(3-hydroxybenzoyl): [96087-14-8].

Swertiaside A. *Swertiaside*

$C_{23}H_{28}O_{12}$ M 496.467
 Constit. of *Swertia japonica*. Amorph. $[\alpha]_D^{23}$ – 109.1° (c,
 3.17 in MeOH).

7-Ketone, 3-(4-hydroxyphenyl)propanoyl ester:

[29118-80-7]. **Syringopicroside**

Constit. of leaves of *Syringa vulgaris*. Amorph., plates
 (EtOH)(as penta-Ac). Mp 156-156.5° (penta-Ac). $[\alpha]_D^{20.5}$
 – 116.5° (c, 1 in $CHCl_3$) (as penta-Ac).

7-Epimer, 7-O-3-[(3-hydroxybenzoyl)oxy]benzoyl: [109770-
 92-5]. **Senburiside II**

$C_{30}H_{32}O_{14}$ M 616.574
 Constit. of *Swertia japonica*. $[\alpha]_D^{22}$ – 88.6° (c, 0.79 in
 MeOH).

7-O-(3,4-Dihydroxyphenyl-2-propenoyl)(E-), *Me ester*:

[139051-14-2]. **7-Caffeoylloganin**

$C_{26}H_{32}O_{13}$ M 552.531
 Constit. of *Cassinopsis madagascariensis*. Cryst.
 (EtOAc). Mp 123-125°. $[\alpha]_D^{20}$ – 29.3° (c, 0.1 in MeOH).

7-O-Benzoyl: 7-O-Benzoylloganic acid

$C_{23}H_{28}O_{11}$ M 480.468
 Constit. of *Alangium platanifolium* var. *trilobum*.
 Powder. $[\alpha]_D^{30}$ – 38° (c, 0.8 in MeOH).

8-Epimer, 7-(4-hydroxybenzoyl): 7-p-Hydroxybenzoyl-8-
epiloganic acid

$C_{23}H_{28}O_{12}$ M 496.467
 Constit. of *Veronica anagallis-aquatica*. Amorph.
 powder.

Birch, A.J. *et al*, *J. Chem. Soc.*, 1961, 1407 (*struct*)

Bentley, T.W. *et al*, *J. Chem. Soc. C*, 1967, 2234 (*ms*)

Asaka, Y. *et al*, *Tetrahedron*, 1970, **26**, 2365 (*Syringopicroside*)

Battersby, A.R., *Alkaloids (London)*, 1971, **1**, 31 (*biosynth*)

Bhakuni, D.S. *et al*, *Indian J. Chem.*, 1972, **10**, 454 (*isol*)

Partridge, J.J. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 532 (*synth*)

Büchi, G. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 540 (*synth*)

Bisset, N.G. *et al*, *Phytochemistry*, 1974, **13**, 265 (*isol*)

Heckendorf, A.H. *et al*, *J. Org. Chem.*, 1976, **41**, 2045 (*cmr*)

Au-Yeung, B.-W. *et al*, *J. Chem. Soc., Chem. Commun.*, 1977, 81
 (*synth*)

Kon, K. *et al*, *Helv. Chim. Acta*, 1983, **66**, 755 (*synth*)

Calis, I. *et al*, *Helv. Chim. Acta*, 1984, **67**, 160 (*Periclymenoside*)

Ikeshiro, Y. *et al*, *Planta Med.*, 1984, **50**, 485; 1987, 158
 (*Swertiaside A*, *Senburiside II*)

Hewson, A.T. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1985, 2625
 (*synth*)

Chulia, A.J. *et al*, *J. Nat. Prod. (Lloydia)*, 1985, **48**, 54
 (*Depressoside*)

Calis, I. *et al*, *J. Nat. Prod. (Lloydia)*, 1985, **48**, 108
 (*Periclymenosidic acid*)

Vandewalle, M. *et al*, *Tetrahedron*, 1986, **42**, 4035 (*synth*)

Rasoanaivo, P. *et al*, *Planta Med.*, 1991, **57**, 486 (7-
Caffeoylloganin)

Young, M.C.M. *et al*, *Phytochemistry*, 1992, **31**, 3433 (*Loganetin*)

Garlaschelli, L. *et al*, *Tetrahedron*, 1992, **48**, 9495 (*synth*)

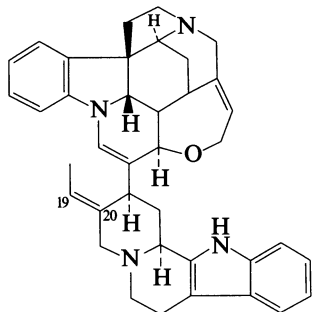
Hsu, L.-F. *et al*, *J. Org. Chem.*, 1993, **58**, 4756 (*synth*)

Itoh, A. *et al*, *Phytochemistry*, 1993, **33**, 161 (7-Benzoylloganic
acid)

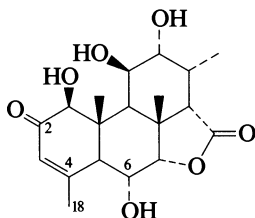
Lahloub, M.-F. *et al*, *Phytochemistry*, 1993, **33**, 401 (7-p-
Hydroxybenzoyl-8-epiloganic acid)

Longicaudatine

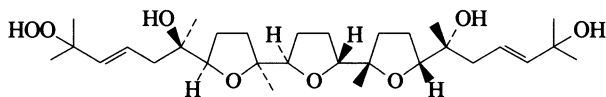
L-10060

Updated Entry replacing L-00711
[85335-06-4] $C_{38}H_{40}N_4O$ M 568.760Alkaloid from *Strychnos longicaudata* and several other *S.* spp. (Strychnaceae). Mp 350° dec. $[\alpha]_D^{25} + 141^\circ$ (c, 0.5 in $CHCl_3$).*19,20β-Dihydro: Dihydrolongicaudatine* $C_{38}H_{42}N_4O$ M 570.776Alkaloid from root bark of *S. potatorum* (Strychnaceae). $[\alpha]_D^{25} + 83^\circ$ (c, 0.25 in MeOH).Massiot, G. *et al*, *J. Org. Chem.*, 1983, **48**, 1869.Massiot, G. *et al*, *Tetrahedron*, 1983, **39**, 3645 (*isol, uv, ir, pmr, cmr, ms, struct*)Massiot, G. *et al*, *Phytochemistry*, 1992, **31**, 2873 (*Dihydrolongicaudatine*)**Longilactone**

L-10061

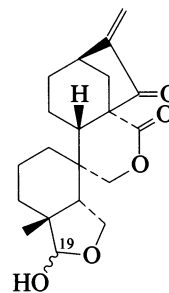
Updated Entry replacing L-00723
[129587-09-3] $C_{19}H_{26}O_7$ M 366.410Constit. of roots of *Eurycoma longifolia*. Cytotoxic. Cryst. Mp 130-132°. $[\alpha]_D^{25} + 92.6^\circ$ (c, 0.19 in MeOH).*2α-Alcohol, Δ⁴⁽¹⁸⁾-isomer:* $C_{19}H_{28}O_7$ M 368.426Constit. of *E. longifolia*. Cryst. (EtOAc). Mp 145-147°. $[\alpha]_D^{25} + 68.6^\circ$ (c, 1.8 in MeOH).*6-Deoxy: Dehydroxylongilactone* $C_{19}H_{26}O_6$ M 350.411Constit. of *E. longifolia*. Needles. Mp 218.5-220°. $[\alpha]_D^{25} + 26.5^\circ$ (c, 0.07 in MeOH).Morita, H. *et al*, *Chem. Lett.*, 1990, 749 (*isol, struct*)Itakawa, H. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 403 (*deriv*)Morita, H. *et al*, *Phytochemistry*, 1993, **33**, 691 (*Dehydroxylongilactone*)**Longilene peroxide**

L-10062

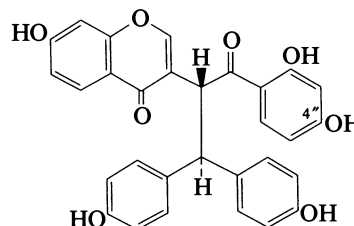
Updated Entry replacing L-00724
Longilene epoxide
[139742-08-8] $C_{30}H_{52}O_8$ M 540.736Constit. of *Eurycoma longifolia*. Needles. Mp 142-143°. $[\alpha]_D^{25} - 23.0^\circ$ (c, 0.44 in $CHCl_3$).Itokawa, H. *et al*, *Chem. Lett.*, 1991, 2221 (*isol, pmr, cmr, cryst struct*)Morita, H. *et al*, *Phytochemistry*, 1993, **34**, 765 (*isol, pmr, cmr, cryst struct*)**Longirabdacetal**

L-10063

[150527-33-6]

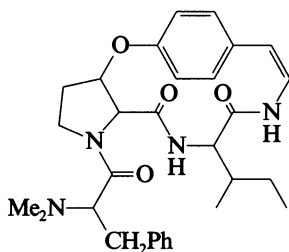
 $C_{20}H_{26}O_5$ M 346.422Constit. of *Rabdosia longituba*. Cryst. (MeOH). Mp 202-208°. $[\alpha]_D^{22.5} - 160.6^\circ$ (c, 1.23 in MeOH).*19-Ketone (lactone):* [150527-32-5]. **Longirabdolactone** $C_{20}H_{24}O_5$ M 344.407Constit. of *R. longituba*. Cryst. (EtOAc). Mp 244-246°. $[\alpha]_D^{22} - 121.6^\circ$ (c, 0.51 in MeOH).Takeda, Y. *et al*, *Phytochemistry*, 1993, **33**, 643 (*isol, pmr, cmr*)**Lophirone A**

L-10064

Updated Entry replacing L-00742
[110383-39-6] $C_{30}H_{22}O_8$ M 510.499Constit. of *Lophira lanceolata*. Noncryst. solid. $[\alpha]_D^{23} + 65^\circ$ (c, 0.56 in MeOH).*4''-Me ether:* [140670-88-8]. *4-O-Methyllophirone A.***Calodenone** $C_{31}H_{24}O_8$ M 524.526Isol. from the stem bark of *Ochna calodendron*. Brown solid.Ghogomu, R. *et al*, *Tetrahedron Lett.*, 1987, **28**, 2967.Messanga, B.B. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 245 (*Calodenone*)

Lotusine A

[149377-30-0]

 $C_{30}H_{38}N_4O_4$ M 518.655Alkaloid from root bark of *Zizyphus lotus* (Rhamnaceae).[α]_D –215° (c, 1.0 in CHCl₃).N-De-Me: [149355-66-8]. **Lotusine D** $C_{29}H_{36}N_4O_4$ M 504.628Alkaloid from root bark of *Z. lotus* (Rhamnaceae). [α]_D–187° (c, 0.5 in CHCl₃).Ghedira, K. *et al*, *Phytochemistry*, 1993, **32**, 1591 (*isol, uv, ir, pmr, cmr, ms, struct*)**L-10065**Constit. of the stem bark of *Raputia paraensis*.

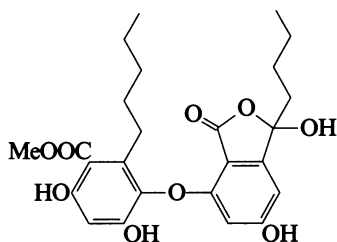
[35927-40-3]

Seikel, M.K. *et al*, *Phytochemistry*, 1966, **5**, 439 (*isol*)Bouillant, M.L. *et al*, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1972, **274**, 193 (*synth*)Wallace, J.W. *et al*, *Phytochemistry*, 1982, **21**, 482 (*isol*)Jay, M. *et al*, *Biochem. Syst. Ecol.*, 1984, **12**, 193 (*isol*)Nawwar, M.A.M. *et al*, *Phytochemistry*, 1984, **23**, 2937 (*isol*)Bakhtiar, A. *et al*, *Phytochemistry*, 1991, **30**, 3840 (*3'-Me ether*)**Lucernic acid****L-10068**

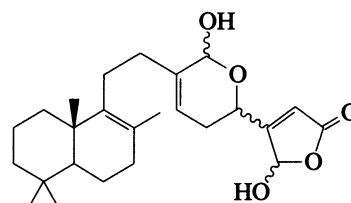
[56283-67-1]

Triterpene sapogenin of unknown struct. Constit. of *Medicago sativa*.Berrang, B. *et al*, *Phytochemistry*, 1974, **13**, 2253 (*isol*)**Loxodinol**

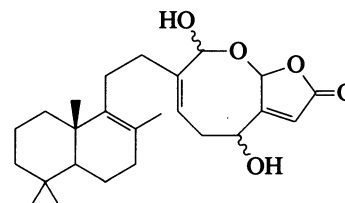
[73191-27-2]

 $C_{25}H_{30}O_9$ M 474.507Isol. from the lichen *Xanthoparmelia scabrosa*. Needles (Me₂CO aq.). Mp 235-237°.Foo, L.Y. *et al*, *Phytochemistry*, 1979, **18**, 1977.**L-10066****Luffarin A****L-10069**

[145398-59-0]

 $C_{25}H_{36}O_5$ M 416.556Constit. of *Luffariella geometrica*. Solid. [α]_D²⁰ +101° (c, 1.7 in CHCl₃).Butler, M.S. *et al*, *Aust. J. Chem.*, 1992, **45**, 1705 (*isol, pmr, cmr*)**Luffarin B****L-10070**

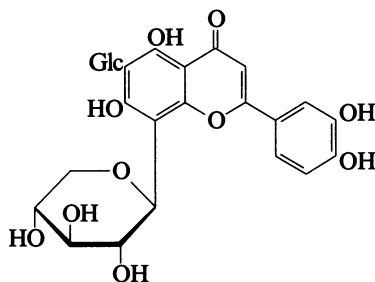
[145427-70-9]

 $C_{25}H_{36}O_5$ M 416.556Constit. of *Luffariella geometrica*. Oil. [α]_D²⁰ +85.7° (c, 0.16 in CHCl₃).Butler, M.S. *et al*, *Aust. J. Chem.*, 1992, **45**, 1705 (*isol, pmr, cmr*)**Lucenin 3****L-10067**

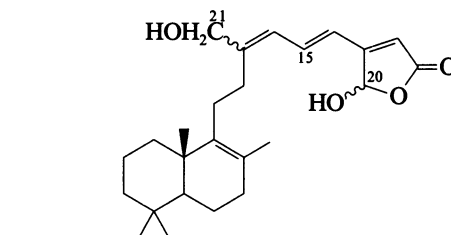
Updated Entry replacing L-00762

2-(3,4-Dihydroxyphenyl)-6- β -D-glucopyranosyl-5,7-dihydroxy-8- β -D-xylopyranosyl-4H-1-benzopyran-4-one, 9CI.6- β -D-Glucopyranosyl-3',4',5,7-tetrahydroxy-8- β -D-xylopyranosylflavone. 6-Glucopyranosyl-8-xylopyranosylluteolin. 6-Glucosyl-8-xylosylluteolin

[12656-83-6]

 $C_{26}H_{28}O_{15}$ M 580.498Isol. from *Vitex lucens*, *Dactylis glomerata* and *Ephedra* spp.

3'-Me ether: [140366-46-7]. 6-Glucopyranosyl-8-xylopyranosylchrysoeriol

 $C_{27}H_{30}O_{15}$ M 594.525**Luffarin E****L-10071** $C_{25}H_{36}O_4$ M 400.557Constit. of *Luffariella geometrica*. Pale yellow oil. [α]_D²⁰ +49.9° (c, 1.1 in CHCl₃).21-Aldehyde: **Luffarin C** $C_{25}H_{34}O_4$ M 398.541Constit. of *L. geometrica*. Yellow oil. [α]_D²⁰ +47.1° (c, 1.3 in CHCl₃).

21-Aldehyde, di-Me acetal: [145398-60-3]. **Luffarin D**
 $C_{27}H_{40}O_5$ M 444.610
 Constit. of *L. geometrica*. Yellow oil. $[\alpha]_D^{20} + 26.4^\circ$ (c, 0.3 in $CHCl_3$).

20-Deoxy: [145398-62-5]. **Luffarin G**
 $C_{25}H_{36}O_3$ M 384.558
 Constit. of *L. geometrica*. Pale yellow oil. $[\alpha]_D^{20} + 41.1^\circ$ (c, 0.8 in $CHCl_3$).

15Z-Isomer: **Luffarin F**
 $C_{25}H_{36}O_4$ M 400.557
 Constit. of *L. geometrica*. Pale yellow oil. $[\alpha]_D^{20} + 43.4^\circ$ (c, 0.7 in $CHCl_3$).

15Z-Isomer, 20-deoxy: [145512-19-2]. **Luffarin H**
 $C_{25}H_{36}O_3$ M 384.558
 Constit. of *L. geometrica*. Pale yellow oil. $[\alpha]_D^{20} + 48.2^\circ$ (c, 0.4 in $CHCl_3$).

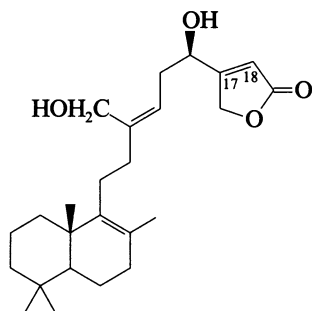
[145514-35-8]

Butler, M.S. et al, *Aust. J. Chem.*, 1992, **45**, 1705 (isol, pmr, cmr)

Luffarin I

[145398-63-6]

L-10072



$C_{25}H_{38}O_4$ M 402.573
 Constit. of *Luffariella geometrica*. Oil. $[\alpha]_D^{20} + 64.3^\circ$ (c, 1.4 in $CHCl_3$).

17,18-Dihydro: [145398-64-7]. **Luffarin J**

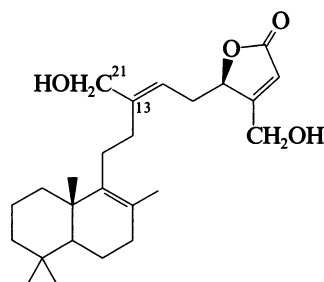
$C_{25}H_{40}O_4$ M 404.589
 Constit. of *L. geometrica*. Oil. $[\alpha]_D^{20} + 33.1^\circ$ (c, 0.29 in $CHCl_3$).

Butler, M.S. et al, *Aust. J. Chem.*, 1992, **45**, 1705 (isol, pmr, cmr)

Luffarin K

[145427-72-1]

L-10073



$C_{25}H_{38}O_4$ M 402.573
 Constit. of *Luffariella geometrica*. Oil. $[\alpha]_D + 25.2^\circ$ (c, 2.8 in $CHCl_3$).

21-Aldehyde: [145398-61-4]. **Luffarin M**

$C_{25}H_{36}O_4$ M 400.557
 Constit. of *L. geometrica*. Oil. $[\alpha]_D + 23.0^\circ$ (c, 1 in $CHCl_3$).

13Z-Isomer: [145514-36-9]. **Luffarin L**

$C_{25}H_{38}O_4$ M 402.573

Constit. of *L. geometrica*. Oil. $[\alpha]_D + 25.1^\circ$ (c, 2.1 in $CHCl_3$).

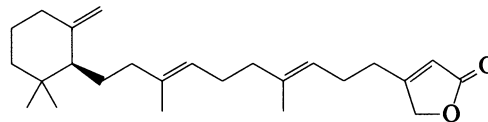
[145514-35-8]

Butler, M.S. et al, *Aust. J. Chem.*, 1992, **45**, 1705 (isol, pmr, cmr)

Luffarin P

[145398-68-1]

L-10074



$C_{25}H_{38}O_2$ M 370.574

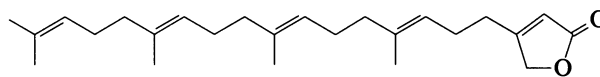
Constit. of *Luffariella geometrica*. Oil. $[\alpha]_D^{20} + 5^\circ$ (c, 0.1 in $CHCl_3$).

Butler, M.S. et al, *Aust. J. Chem.*, 1992, **45**, 1705 (isol, pmr, cmr)

Luffarin Q

[145398-69-2]

L-10075



$C_{25}H_{38}O_2$ M 370.574

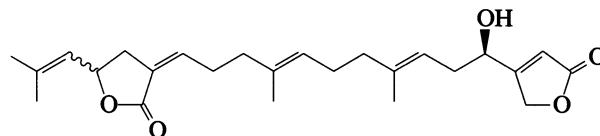
Constit. of *Luffariella geometrica*. Oil.

Butler, M.S. et al, *Aust. J. Chem.*, 1992, **45**, 1705 (isol, pmr, cmr)

Luffarin R

[145427-73-2]

L-10076



$C_{25}H_{34}O_5$ M 414.541

Constit. of *Luffariella geometrica*. Pale yellow oil. $[\alpha]_D^{20} - 13.7^\circ$ (c, 4.41 in $CHCl_3$).

Ac: [145398-70-5]. **Luffarin S**

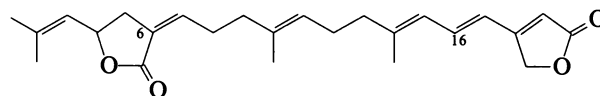
$C_{27}H_{36}O_6$ M 456.578
 Constit. of *L. geometrica*. Oil. $[\alpha]_D^{20} - 12.5^\circ$ (c, 0.9 in $CHCl_3$).

Butler, M.S. et al, *Aust. J. Chem.*, 1992, **45**, 1705 (isol, pmr, cmr)

Luffarin T

[145398-71-6]

L-10077



$C_{25}H_{32}O_4$ M 396.525

Constit. of *Luffariella geometrica*. Yellow oil. $[\alpha]_D^{20} - 30.3^\circ$ (c, 1.7 in $CHCl_3$).

16Z-Isomer: [145512-20-5]. **Luffarin U**

$C_{25}H_{32}O_4$ M 396.525
 Constit. of *L. geometrica*. Yellow oil. $[\alpha]_D^{20} - 28.0^\circ$ (c, 0.3 in $CHCl_3$).

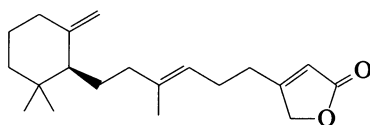
16,17-Dihydro, 6E-Isomer: [145398-72-7]. **Luffarin V**

$C_{25}H_{34}O_4$ M 398.541
 Constit. of *L. geometrica*. Oil. $[\alpha]_D^{20} - 30^\circ$ (c, 0.1 in $CHCl_3$).

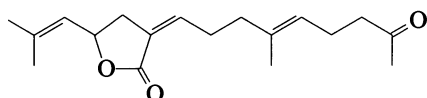
Butler, M.S. et al, *Aust. J. Chem.*, 1992, **45**, 1705 (isol, pmr, cmr)

Luffarin W

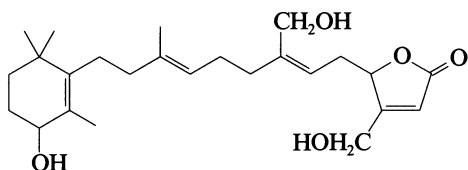
[145398-73-8]

 $C_{20}H_{30}O_2$ M 302.456Constit. of *Luffariella geometrica*. Oil. $[\alpha]_D^{20} + 13.2^\circ$ (c, 0.7 in $CHCl_3$).Butler, M.S. *et al*, *Aust. J. Chem.*, 1992, **45**, 1705 (*isol*, *pmr*, *cmr*)**Luffarin Z**

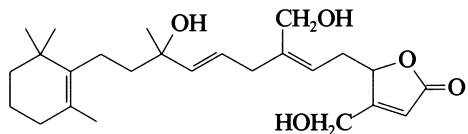
[145398-76-1]

 $C_{18}H_{26}O_3$ M 290.402Constit. of *Luffariella geometrica*. Oil. $[\alpha]_D^{20} - 30^\circ$ (c, 0.05 in $CHCl_3$).Butler, M.S. *et al*, *Aust. J. Chem.*, 1992, **45**, 1705 (*isol*, *pmr*, *cmr*)**Luffariolide F**

[147663-78-3]

 $C_{25}H_{38}O_5$ M 418.572Constit. of a *Luffariella* sp. Oil. $[\alpha]_D^{19} - 5.9^\circ$ (c, 0.67 in MeOH).Kobayashi, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 436 (*isol*, *pmr*, *cmr*)**Luffariolide G**

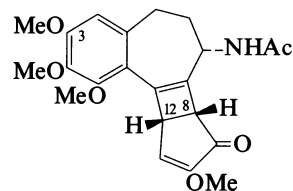
[147663-79-4]

 $C_{25}H_{38}O_5$ M 418.572Constit. of a *Luffariella* sp. Oil. $[\alpha]_D^{24} - 9.5^\circ$ (c, 0.2 in MeOH).Kobayashi, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 436 (*isol*, *pmr*, *cmr*)**L-10078** **β -Lumicolchicine****L-10082**

Updated Entry replacing L-00796

Lumicolchicine I. Substance I

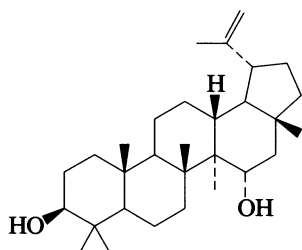
[6901-13-9]

 $C_{22}H_{25}NO_6$ M 399.443Alkaloid from many *Colchicum* spp. (Liliaceae) and other spp. as photoisom. prod. of Colchicine, C-01632. May be a genuine alkaloid. Cryst. (EtOH/Et₂O). Mp 183°, Mp 206° (dimorph.).N-De-Ac, N-formyl: [18172-23-1]. **N-Deacetyl-N-formyl- β -lumicolchicine, 8CI** $C_{21}H_{23}NO_6$ M 385.416Alkaloid from tubers of *Gloriosa superba* (Liliaceae). Mp 214-215°. $[\alpha]_D^{20} + 340^\circ$ (c, 1 in $CHCl_3$).8,12-Diepimer: [6901-14-0]. **γ -Lumicolchicine.***Lumicolchicine. Lumicolchicine II. Substance J* $C_{22}H_{25}NO_6$ M 399.443Alkaloid from *C. spp.*, *Merendera* spp. and others, as artifact of illumination of Colchicine, C-01632 and poss. as genuine alkaloid (Liliaceae). Cryst. (EtOAc/Et₂O, dioxan or anisole). Mp 268°. $[\alpha]_D^{18} - 445^\circ$ (c, 1 in $CHCl_3$).5,12-Diepimer, N-de-Ac, N-formyl: [18172-22-0]. **N-Deacetyl-N-formyl- γ -lumicolchicine** $C_{21}H_{23}NO_6$ M 385.416Alkaloid from tubers of *G. superba* (Liliaceae). Cryst. ($CHCl_3$ /MeOH). Mp 255-257°. $[\alpha]_D^{20} - 451^\circ$ (c, 1 in $CHCl_3$).3-O-De-Me, N-de-Ac, N-formyl: [18172-25-3]. **N-Deacetyl-N-formyl-3-O-demethyl- β -lumicolchicine** $C_{20}H_{21}NO_6$ M 371.389Alkaloid from *C. decaisnei* and *Gloriosa superba* (Liliaceae). Cryst. (MeOH/EtOAc). Mp 229-230°. $[\alpha]_D + 240^\circ$ (c, 0.12 in MeOH).O²-De-Me: [18172-24-2]. **2-O-Demethyl- β -lumicolchicine** $C_{21}H_{23}NO_6$ M 385.416Alkaloid from *C. autumnale*, *Gloriosa superba* and *Wurmbea* spp.O³-De-Me: [30632-52-1]. **3-O-Demethyl- β -lumicolchicine** $C_{21}H_{23}NO_6$ M 385.416Alkaloid from *C. spp.*, *G. superba* and *M. raddeana*. Mp 235°. $[\alpha]_D^{22} + 316^\circ$ ($CHCl_3$).5,9-Diepimer, O²-De-Me: [26194-64-9]. **2-O-Demethyl- γ -lumicolchicine. Alkaloid K13** $C_{21}H_{23}NO_6$ M 385.416Alkaloid from *C. autumnale*, *G. superba* and *M. raddeana*. Mp 287-288°. $[\alpha]_D - 420^\circ$ (c, 0.40 in $CHCl_3$).5,9-Diepimer, O³-de-Me: [28101-27-1]. **3-O-Demethyl- γ -lumicolchicine. Alkaloid L6** $C_{21}H_{23}NO_6$ M 385.416Alkaloid from *C. luteum* (Liliaceae). Mp 291-293°. $[\alpha]_D^{22} - 410^\circ$ ($CHCl_3$).5,9-Diepimer, N-Me, O³-de-Me, O³- β -D-glucopyranoside: [29623-34-5]. **Colchicum autumnale Alkaloid M** $C_{28}H_{38}NO_{11}$ M 561.585Alkaloid from *C. autumnale* (Liliaceae). Mp 310-314°. $[\alpha]_D^{22} - 310^\circ$ (c, 0.89 in MeOH aq.).Grewe, R. *et al*, *Chem. Ber.*, 1951, **84**, 621 (*synth*, *w*)Gardner, P.D. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 6334 (*struct*)

- Chapman, O.L. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 803, 807 (struct, pmr)
 Canonica, L. *et al*, *Chim. Ind. (Milan)*, 1967, **49**, 1304; *CA*, **68**, 87424s (*N*-Deacetyl-*N*-formyllymnicolchicines)
 Potesilova, H. *et al*, *Collect. Czech. Chem. Commun.*, 1969, **34**, 2128, 3642 (*isol*, *derivs*)
 Severini Ricca, G. *et al*, *Gazz. Chim. Ital.*, 1969, **99**, 133 (*pmr*)
 Canonica, L. *et al*, *Tetrahedron Lett.*, 1969, 607 (*struct*)
 Santavy, F., *Collect. Czech. Chem. Commun.*, 1970, **35**, 2857 (*Alkaloid M*)
 Chommadov, B. *et al*, *Khim. Prir. Soedin.*, 1970, **6**, 275; *Chem. Nat. Compd. (Engl. Transl.)*, 274 (3-*O*-Demethyl- γ -lymnicolchicine)
 Turdikulov, K. *et al*, *Khim. Prir. Soedin.*, 1972, **8**, 502; *Chem. Nat. Compd. (Engl. Transl.)*, 494 (2-*O*-Demethyl- γ -lymnicolchicine)
 Hrbek, J. *et al*, *Collect. Czech. Chem. Commun.*, 1982, **47**, 2258 (*cd*)
 Al-Tel, T.H. *et al*, *Phytochemistry*, 1991, **30**, 3081 (*deriv*)

20(29)-Lupene-3,15-diol

L-10083

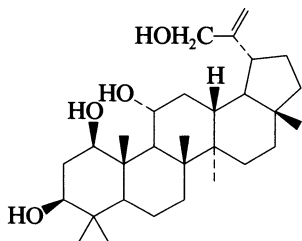


- $C_{30}H_{50}O_2$ M 442.724
(3 β ,15 α)-form [147659-01-6]
 Constit. of *Phyllanthus flexuosus*. Needles (MeOH/CHCl₃). Mp 204.5-207°. $[\alpha]_D^{23} + 30^\circ$ (c, 0.34 in CHCl₃).
 Tanaka, R. *et al*, *Phytochemistry*, 1993, **32**, 472 (*isol*, *pmr*, *cmr*)

20(30)-Lupene-1,3,11,29-tetrol

L-10084

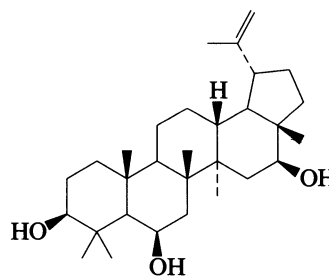
Updated Entry replacing L-00839
 20(29)-Lupene-1,3,11,30-tetrol (*incorr.*)



- $C_{30}H_{50}O_4$ M 474.723
(1 β ,3 β ,11 α)-form [104139-53-9] **Nepedinol**
 Constit. of *Nepeta hindostana*. Cryst. (MeOH). Mp 282° dec. $[\alpha]_D - 18.67^\circ$ (c, 0.75 in Py).
 29-Aldehyde: 1,3,11-Trihydroxy-20(30)-lupen-29-al.
Nepehinal
 $C_{30}H_{48}O_4$ M 472.707
 Constit. of *N. hindostana*. Needles. Mp 212° dec. $[\alpha]_D^{24} + 28^\circ$ (c, 0.5 in Py).
 Ahmad, V.U. *et al*, *J. Nat. Prod. (Lloydia)*, 1986, **49**, 524 (*isol*)
 Ahmad, V.U. *et al*, *Planta Med.*, 1993, **59**, 366 (*Nepehinal*)

20(29)-Lupene-3,6,16-triol

L-10085

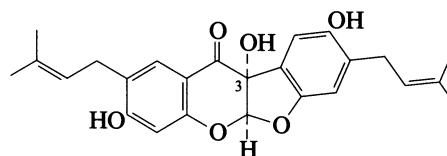


- $C_{30}H_{50}O_3$ M 458.723
(3 β ,6 β ,16 β)-form [147167-61-1]
 Constit. of *Combretum leprosum*. Cryst. (Et₂O). Mp 270-272°.
 Facundo, V.A. *et al*, *Phytochemistry*, 1993, **32**, 411 (*isol*, *pmr*, *cmr*)

Lupinol A

L-10086

[135905-50-9]

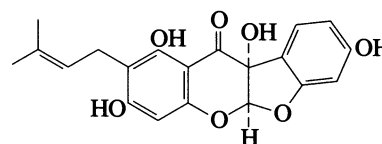


- $C_{25}H_{26}O_6$ M 422.477
 Constit. of the roots of *Lupinus albus*. Pale yellow gum.
 3-*Me ether*: [135938-72-6]. **Lupinol B**
 $C_{26}H_{28}O_6$ M 436.504
 Constit. of the roots of *L. albus*. Pale yellow gum.
 Tahara, S. *et al*, *Z. Naturforsch., C*, 1991, **46**, 331 (*isol*, *pmr*, *cmr*)

Lupinol C

L-10087

[135905-53-2]

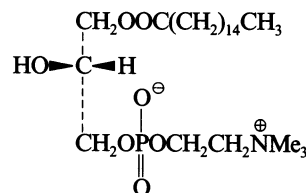


- $C_{20}H_{18}O_7$ M 370.358
 Constit. of the leaves of *Lupinus luteus*. Pale yellow gum.
 Tahara, S. *et al*, *Z. Naturforsch., C*, 1991, **46**, 331 (*isol*)

 α -Lysolecithin

L-10088

4,7-Dihydroxy-N,N,N-trimethyl-10-oxo-3,5,9-trioxa-4-phosphapentacosan-1-aminium hydroxide, inner salt, 4-oxide, 9Cl. Choline hydroxide dihydrogen phosphate inner salt 3-ester with 1-monopalmitin, 8Cl. 1-Palmitoylglycerol-3-phosphocholine. Choline phosphate 3-ester with 1-monopalmitin
 [14863-27-5]



- $C_{24}H_{50}NO_7P$ M 495.635
(R)-form [17364-16-8]
L-form

Constit. of biomembranes. $[\alpha]_{546}^{22} -4.3^\circ$ (c, 3.5 in $\text{CHCl}_3/\text{MeOH}$).

[17364-17-9, 17364-18-0]

Arnold, D. *et al*, *Justus Liebigs Ann. Chem.*, 1967, **709**, 234 (*synth*)

Eibl, H. *et al*, *Justus Liebigs Ann. Chem.*, 1970, **738**, 161 (*synth*)

Dorset, D.L., *Biochim. Biophys. Acta*, 1975, **380**, 257 (*cryst struct*)

Spiker, R.C. *et al*, *Biochim. Biophys. Acta*, 1975, **388**, 361 (*raman*)

Yabusaki, K.K. *et al*, *Chem. Phys. Lipids*, 1976, **17**, 120 (*synth*)

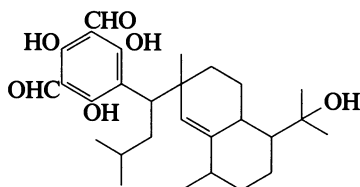
Smith, N.B. *et al*, *Can. J. Biochem.*, 1978, **56**, 1149 (*synth, pmr*)

Tokumura, A. *et al*, *Chem. Pharm. Bull.*, 1983, **31**, 4425 (*ms*)

M

Macrocarpal D

[142628-54-4]



$C_{28}H_{40}O_6$ M 472.620

Constit. of *Eucalyptus macrocarpa*. Powder. Mp 132-134°. $[\alpha]_D -20.0^\circ$ (c, 0.1 in MeOH).

Yamakoshi, Y. *et al*, *Biosci., Biotechnol., Biochem.*, 1992, **56**, 1570 (isol, pmr, cmr)

M-10001

Δ^4 -Isomer, 3'-hydroxy: [73385-58-7]. *Murrayamine C*†. *Mahanimboline*

$C_{23}H_{25}NO_2$ M 347.456

Alkaloid from root bark of *M. koenigii* (Rutaceae). Mp 170-172°. Doubtful structural assignment for Mahanimboline. The pmr data of the compd. isol. by Roy *et al* (1979) are different from those reported for Murrayamine C (see Mahanimbicine, M-00108), which has now been assigned this struct.

(±)-form [24948-14-9]

Alkaloid from the stem bark of *M. koenigii* (Rutaceae). Cryst. (hexane). Mp 72-73°, Mp 75-76°, Mp 94-95°. Also obt. by heating (+)-mahanimbicine at 150° for 1 hr in a sealed tube.

Narasimhan, N.S. *et al*, *Tetrahedron Lett.*, 1968, 5501 (w, pmr, ms, struct)

Kureel, S.P. *et al*, *Experientia*, 1970, **26**, 1055 (*Mahanimbicine*)
Joshi, B.S. *et al*, *Tetrahedron*, 1970, **26**, 1475 (isol, w, ir, pmr, struct)

Bandaranyake, W.M. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1974, 998 (synth)

Roy, S. *et al*, *Phytochemistry*, 1974, **13**, 2893 (isol, w, ir, pmr)

Narasimhan, N.S. *et al*, *Indian J. Chem.*, 1975, **13**, 993.

Narasimhan, N.S. *et al*, *Indian J. Chem., Sect. B*, 1976, **14**, 329, 430 (isol, w, ir, pmr, ms, struct, synth)

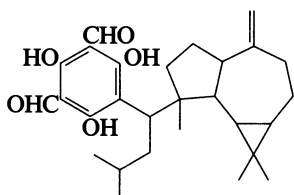
Bhattacharyya, P. *et al*, *J. Indian Chem. Soc.*, 1978, **55**, 308 (isol, w, ir)

Roy, S. *et al*, *Chem. Ind. (London)*, 1979, 669 (*Mahanimboline*)

Ito, C. *et al*, *Phytochemistry*, 1992, **31**, 1083 (*Mahanimboline*)

Macrocarpal G

[145416-92-8]



$C_{28}H_{38}O_5$ M 454.605

Constit. of *Eucalyptus macrocarpa*. Powder. Mp 84°. $[\alpha]_D -27.1^\circ$ (c, 0.59 in MeOH).

[142628-53-3]

Yamakoshi, Y. *et al*, *Biosci., Biotechnol., Biochem.*, 1992, **56**, 1570 (isol, pmr, cmr)

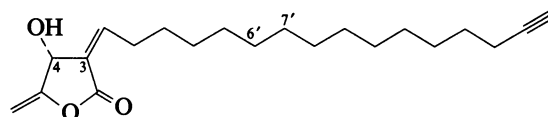
M-10002

Mahubynolide

M-10004

3-(15-Hexadecynylidene)dihydro-4-hydroxy-5-methylene-2(3H)-furanone

[71339-48-5]



$C_{21}H_{32}O_3$ M 332.482

From *Clinostemon mahuba*. Oil. $[\alpha]_D^{24} +8.0^\circ$.

15',16'-Dihydro: [71339-46-3]. *Mahubenolide*

$C_{21}H_{34}O_3$ M 334.498

From *C. mahuba*. Oil. $[\alpha]_D^{24} +6.2^\circ$.

15',15',16',16'-Tetrahydro: [71339-50-9]. *Mahubanolide*

$C_{21}H_{36}O_3$ M 336.514

From *C. mahuba*.

3E-Isomer: [71339-49-6]. *Isomahubynolide*

Isol. from the trunkwood of *C. mahuba*. Oil. $[\alpha]_D^{24} +23.1^\circ$.

3E-Isomer, 15',16'-dihydro: [71339-47-4]. *Isomahubenolide*

$C_{21}H_{34}O_3$ M 334.498

From *C. mahuba*. Oil. $[\alpha]_D^{24} +22.0^\circ$.

3E-Isomer, 15',15',16',16'-tetrahydro: [71359-03-0].

Isomahubanolide

$C_{21}H_{36}O_3$ M 336.514

From *C. mahuba*.

Rollinson, S.W. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 4114 (synth)

Martinez, J.C. *et al*, *Phytochemistry*, 1981, **20**, 459 (isol)

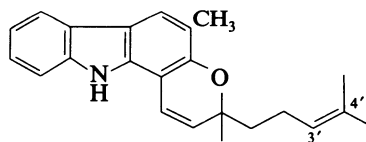
Ortuno, R.M. *et al*, *Tetrahedron*, 1988, **44**, 5139 (abs config)

Mahanimbicine

M-10003

Updated Entry replacing M-00109

3,11-Dihydro-3,5-dimethyl-3-(4-methyl-3-pentenyl)pyrano[3,2-a]carbazole, 9CI



$C_{23}H_{25}NO$ M 331.457

(+)-form [21104-28-9]

Alkaloid from the fruits and leaves of *Murraya koenigii* and the stem bark of *M. exotica* (Rutaceae). Cryst. (hexane). Mp 94-95°. $[\alpha]_D +40.6^\circ$ (c, 2.1 in $CHCl_3$), $[\alpha]_D +52^\circ$ ($CHCl_3$).

Dihydro: Mp 101°.

Tetrahydro: Cryst. (pentane). Mp 110°.

N-Me: Needles (EtOH). Mp 120°.

N-Et: Cryst. (EtOH). Mp 96°.

3',4'-Dihydro, 4'-hydroxy: [30048-24-9]. *Mahanimbicine*

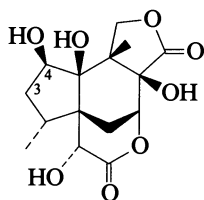
$C_{23}H_{27}NO_2$ M 349.472

Alkaloid from leaves of *M. koenigii* (Rutaceae). Mp 179°.

Majucin

M-10005

Updated Entry replacing M-00120
[114687-97-7]



$C_{15}H_{20}O_8$ M 328.318

Constit. of *Illicium majus*. Needles (MeOH). Mp 251-252°. $[\alpha]_D^{24} -74^\circ$ (c, 0.15 in dioxan).

4-Deoxy: [114687-98-8]. **Neomajucin**

$C_{15}H_{20}O_7$ M 312.319

Constit. of *I. majus*. Octahedra (EtOAc). Mp 220-222°. $[\alpha]_D^{24} -75^\circ$ (c, 0.25 in dioxan).

4-Deoxy, 3,4-didehydro: **2,3-Dehydroneomajucin**

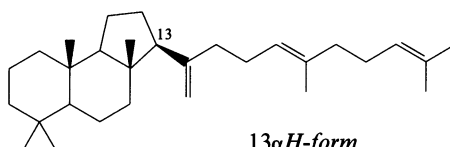
$C_{15}H_{18}O_7$ M 310.303

Constit. of *I. majus*. Amorph. solid. $[\alpha]_D -123.6^\circ$ (c, 0.11 in dioxan). Numbering systems differ.

Kouno, I. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2448 (*isol, pmr, cmr, cryst struct*)

14(27),17,21-Malabaricatriene

M-10006



$C_{30}H_{50}$ M 410.725

13αH-form [123298-93-1]

Constit. of *Lemmaphyllum microphyllum* var. *obovatum*. Oil. $[\alpha]_D -23.3^\circ$ (c, 0.1 in $CHCl_3$).

13βH-form [123357-28-8]

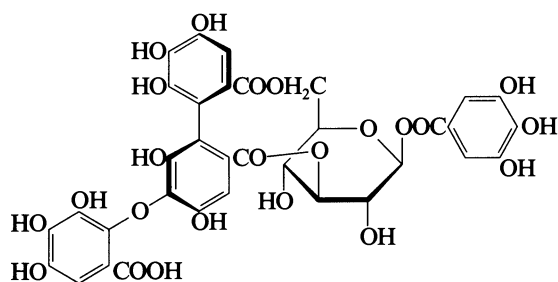
Constit. of *L. microphyllum* var. *obovatum*. Oil. $[\alpha]_D +16.3^\circ$ (c, 0.6 in $CHCl_3$).

Masuda, K. *et al*, *Chem. Pharm. Bull.*, 1989, **1140** (*isol, pmr, cmr*)

Mallorepanin

M-10007

[131402-70-5]



$C_{34}H_{26}O_{23}$ M 802.566

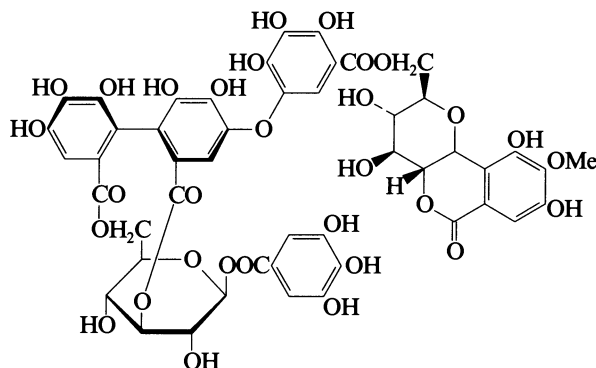
Constit. of *Macaranga sinensis*.

Lin, J.-H. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 1844 (*isol, struct*)

Mallotannin A

M-10008

Updated Entry replacing M-00145
[126132-66-9]



$C_{48}H_{40}O_{31}$ M 1112.825

A dimeric tannin from the bark of *Mallotus japonicus*. Tan amorph. powder + $2H_2O$. $[\alpha]_D^{26} -40.6^\circ$ (c, 1.0 in MeOH).

Saijo, R. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2940 (*struct, pmr, cmr*)

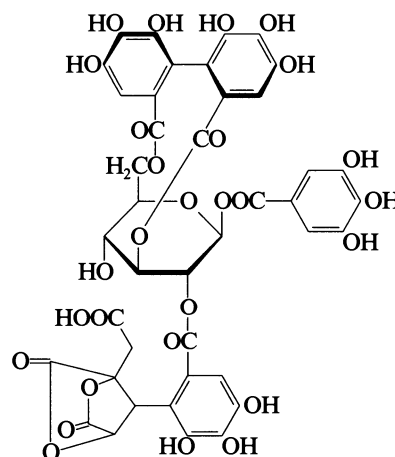
Mallotinin

M-10009

Updated Entry replacing M-00148

1-O-Galloyl-2-malloyl-3,6-(R)-hexahydroxydiphenoyl-β-D-glucopyranose

[125445-51-4]



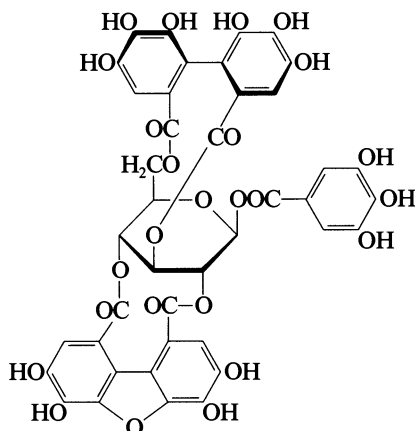
$C_{41}H_{30}O_{28}$ M 970.671

A tannin isol. from the leaf of *Mallotus repandus*. Tan amorph. powder + $5H_2O$. $[\alpha]_D^{26} -55.5^\circ$ (c, 0.9 in MeOH).

Saijo, R. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2624 (*struct, pmr, cmr*)

Mallotusin

Updated Entry replacing M-00155
[124854-04-2]



$C_{41}H_{26}O_{25}$ M 918.641

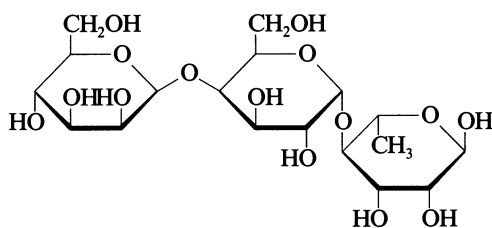
Tannin constit. from the bark of *Mallotus japonicus*. Tan amorph. powder + $3H_2O$. $[\alpha]_D^{20} -20.3^\circ$ (c, 0.6 in Me_2CO).

Saijo, R. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2063 (*struct*, *pmr*, *cmr*)

 β -D-Mannopyranosyl-(1 \rightarrow 4)- α -D-galactopyranosyl-(1 \rightarrow 4)-L-rhamnose

M-10011

[79522-98-8]

 α -Pyranose-form

$C_{18}H_{32}O_{15}$ M 488.442

Constit. of the repeating unit of the O-antigen present in the lipopolysaccharide of the bacterium *E. coli* serotype 075.

 α -Pyranose-form

Benzyl glycoside, 2',2'',3'',4''-tetrabenzyl, 3',6',6''-tri-Ac:

$C_{59}H_{68}O_{18}$ M 1065.175

$[\alpha]_D^{20} +11.8^\circ$ (c, 1.26 in CH_2Cl_2).

Benzyl glycoside, 2,3-O-isopropylidene, 2',2'',3'',4''-

tetrabenzyl, 3',6',6''-tri-Ac:

$C_{62}H_{72}O_{18}$ M 1105.240

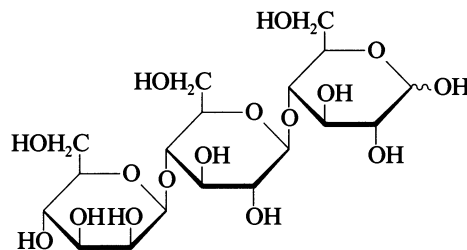
$[\alpha]_D^{20} +15.1^\circ$ (c, 2.58 in CH_2Cl_2).

Paulsen, H. *et al*, *Chem. Ber.*, 1981, **114**, 3102 (*synth*)

 β -D-Mannopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 4)-D-glucose, 9CI

M-10012

[50692-77-8]



Pyranose-form

$C_{18}H_{32}O_{16}$ M 504.441

Constit. of the mucilage from the tubers of *Bletilla striata*.

Isol. from the enzymatic hydrolysate of the glucomannans from lily, Jack pine (*Pinus banksiana*), *Narcissus tazetta* and from larch (*Larix decidua*) glucomannan. Amorph. $[\alpha]_D^{20} +5.7^\circ$ (c, 0.5 in H_2O), $[\alpha]_D +17^\circ$ (c, 1.0 in H_2O).

Perila, O. *et al*, *Can. J. Chem.*, 1961, **39**, 815.

Aspinall, G.O. *et al*, *J. Chem. Soc.*, 1962, 214.

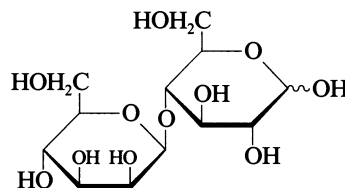
Kato, K. *et al*, *Agric. Biol. Chem.*, 1976, **40**, 2495 (*isol*)

Tomoda, M. *et al*, *Chem. Pharm. Bull.*, 1976, **24**, 1807 (*isol*, *pmr*)

4-O- β -D-Mannopyranosyl-D-glucose, 9CI

M-10013

[28072-80-2]



$C_{12}H_{22}O_{11}$ M 342.299

Structural unit in the glucomannan of plant hemicelluloses.

Isol. from partial acid hydrol. of *Amorphophalus*, spp., *Picea glauca*, *Tsuga heterophylla*, *Acer rubrum* and others. Mp 199-201°. $[\alpha]_D +30^\circ$ (H_2O).

Gyaw, M.O. *et al*, *Can. J. Chem.*, 1960, **38**, 1957 (*isol*)

Tyminski, A. *et al*, *J. Am. Chem. Soc.*, 1960, **82**, 2823 (*isol*)

Perila, O. *et al*, *Can. J. Chem.*, 1961, **39**, 815 (*isol*, *struct*)

Bailey, R.W., *Oligosaccharides*, Pergamon Press, 1965, **4**, 100 (*occur*)

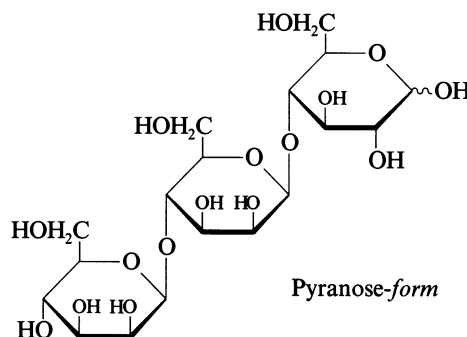
Usui, T. *et al*, *Agric. Biol. Chem.*, 1979, **43**, 863 (*cmr*)

Koleva, M. *et al*, *CA*, 1980, **92**, 143239v (*isol*)

 β -D-Mannopyranosyl-(1 \rightarrow 4)- β -D-mannopyranosyl-(1 \rightarrow 4)-D-glucose

M-10014

[50692-76-7]



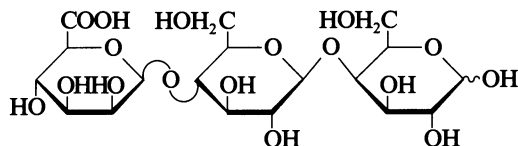
Pyranose-form

C₁₈H₃₂O₁₆ M 504.441

Constit. of mucilage, from the bulbs of *Suisen (Narcissus tazetta)*; from the tubers of *Bletilla striata* and *Arum maculatum* and from the glucomannan of lily. Amorph. $[\alpha]_D^{20} - 8^\circ$ (c, 1.0 in H₂O).

Perila, O. *et al*, *Can. J. Chem.*, 1961, **39**, 815 (*isol*)
 Kato, K. *et al*, *Carbohydr. Res.*, 1973, **29**, 469 (*isol*)
 Kato, K. *et al*, *Agric. Biol. Chem.*, 1976, **40**, 2495.
 Tomoda, M. *et al*, *Chem. Pharm. Bull.*, 1976, **24**, 1807 (*isol, pmr*)
 Holeva, M., *CA*, 1981, **95**, 165582r; 1983, **100**, 20436h (*isol*)

β -D-Mannopyranuronosyl-(1 \rightarrow 4)- β -D-galactopyranosyl-(1 \rightarrow 4)-D-galactose, 8CI M-10015
 [22412-73-3]



Pyranose-form

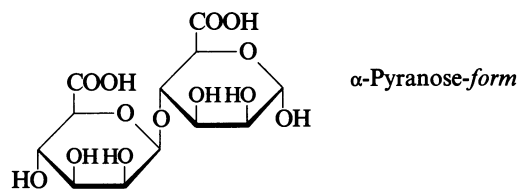
C₁₈H₃₀O₁₇ M 518.425

Constit. of the extracellular bacterial polysaccharide from *Arthrobacter viscosus* (NRRL B-1973).

K salt: $[\alpha]_D^{25} - 7.3^\circ$ (in H₂O).

Sloneker, J.H. *et al*, *Can. J. Chem.*, 1986, **46**, 3353 (*isol*)

4-O- β -D-Mannopyranuronosyl-D-mannuronic acid M-10016

 α -Pyranose-formC₁₂H₁₈O₁₃ M 370.266

Isol. from the partial acid hydrol. of alginic acid.

 α -Pyranose-form

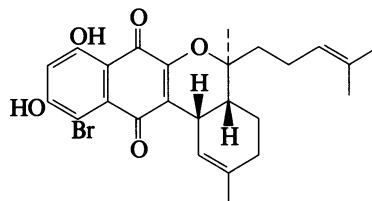
Mp 182°. $[\alpha]_D - 46.5^\circ$ (H₂O).

[34044-53-6]

Jayme, G. *et al*, *Chem. Ber.*, 1960, **93**, 2263 (*isol*)

Marinone

[146488-63-3]

C₂₅H₂₇BrO₅ M 487.389

Constit. of a marine actinomycete (CNB-632).

Debromo: [146488-64-4]. *Debromomarinone*

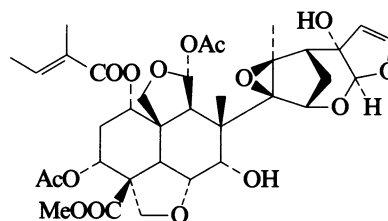
C₂₅H₂₈O₅ M 408.493

Constit. of a marine actinomycete (CNB-632).

Pathirana, C. *et al*, *Tetrahedron Lett.*, 1992, **33**, 7663 (*isol, pmr, cmr*)

Marrangin

M-10018

C₃₅H₄₄O₁₅ M 704.724

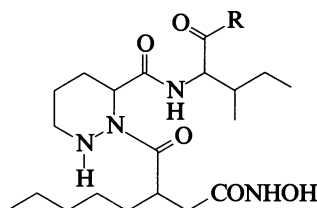
Constit. of *Azadirchta excelsa*. Cryst. Mp 143-145°.

Related to Azadirachtin, A-03176.

Kalinowski, H.-O. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 1033 (*isol, pmr, cmr*)

Matlystatin A

[140626-94-4]

R = CH₂CH₂SCH₂CH(NHAc)COOHC₂₇H₄₇N₅O₈S M 601.763

Prod. by *Actinomadura atramentaria*. Powder. Mp 113-115°. $[\alpha]_D^{20} - 38.9^\circ$ (c, 1.06 in MeOH).

Ogita, T. *et al*, *J. Antibiot.*, 1992, **45**, 1723, 1733 (*isol, struct, props*)

Matlystatin B

SF 2197. Antibiotic SF 2197

[140923-32-6]

As Matlystatin A, M-10019 with

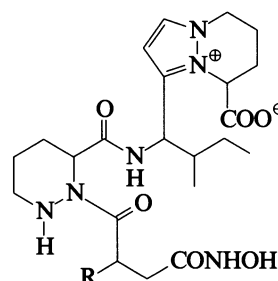
R = -COCH₂CH₃C₂₂H₄₀N₄O₅ M 440.582

Prod. by *Actinomadura atramentaria*. Powder. Mp 69-72°. $[\alpha]_D^{20} - 30.7^\circ$ (c, 1 in EtOH).

Ogita, T. *et al*, *J. Antibiot.*, 1992, **45**, 1723, 1733 (*isol, struct, props*)

Matlystatin D

[140667-42-1]

R = (CH₂)₄CH₃C₂₇H₄₄N₆O₆ M 548.681

Prod. by *Actinomadura atramentaria*. Powder. Mp 122-126°. $[\alpha]_D^{20}$ -20.3° (c, 1.14 in MeOH).

Ogita, T. *et al*, *J. Antibiot.*, 1992, **45**, 1723, 1733 (*isol, struct, props*)

Matlystatin E**M-10022**

[140638-26-2]

As Matlystatin D, M-10021 with

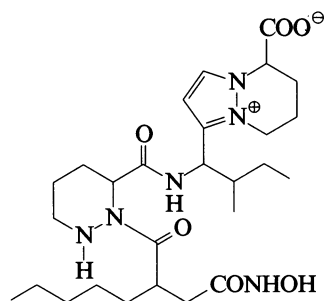

 $\text{C}_{26}\text{H}_{42}\text{N}_6\text{O}_6$ M 534.654

Prod. by *Actinomadura atramentaria*. Powder. Mp 89-94°. $[\alpha]_D^{20}$ -21.95° (c, 0.41 in MeOH).

Ogita, T. *et al*, *J. Antibiot.*, 1992, **45**, 1723, 1733 (*isol, struct, props*)

Matlystatin F**M-10023**

[140638-25-1]


 $\text{C}_{27}\text{H}_{44}\text{N}_6\text{O}_6$ M 548.681

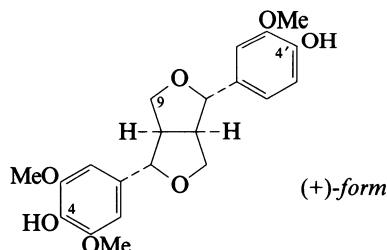
Prod. by *Actinomadura atramentaria*. Powder. Mp 69-75°. $[\alpha]_D^{20}$ +1.43° (c, 0.14 in MeOH).

Ogita, T. *et al*, *J. Antibiot.*, 1992, **45**, 1723, 1733 (*isol, struct, props*)

Medioresinol**M-10024**

Updated Entry replacing M-00375

2,6-Dimethoxy-4[*tetrahydro-4-(4-hydroxy-3-methoxyphenyl)-1H,3H-furo[3,4-c]furan-1-yl*]phenol, 9CI. 2-(4-Hydroxy-3,5-dimethoxyphenyl)-6-(4-hydroxy-3-methoxyphenyl)-3,7-dioxabicyclo[3.3.1]octane. 4,4'-Dihydroxy-3,3',5'-trimethoxy-7,9':7',9-diepoxy lignan


 $\text{C}_{21}\text{H}_{24}\text{O}_7$ M 388.416
Lignan numbering shown.
(+)-form [40957-99-1]

Constit. of *Allamanda nerifolia* and *Justicia tranquebariensis*. Prisms (MeOH). Mp 170-172°. $[\alpha]_D^{28}$ +77.7° (c, 0.69 in MeOH).

4-O- β -D-Glucopyranoside: [99633-12-2]. **Eucommin A**
 $\text{C}_{27}\text{H}_{34}\text{O}_{12}$ M 550.558

Isol. from bark of *Eucommia ulmoides*. Mp 163°. $[\alpha]_D^{18}$ +20.4° (c, 2.4 in MeOH).

4'-O- β -D-Glucopyranoside: **Isoeucommin A**
 $\text{C}_{27}\text{H}_{34}\text{O}_{12}$ M 550.558

Isol. from leaves of *Osmanthus asiaticus*. Mp 110-113°. $[\alpha]_D^{23}$ 0° (c, 0.6 in MeOH).

Di-O- β -D-glucopyranoside:
 $\text{C}_{33}\text{H}_{44}\text{O}_{17}$ M 712.700

Isol. from bark of *E. ulmoides*. Needles (EtOH). Mp 222°. $[\alpha]_D^{22}$ -9.1° (c, 0.1 in Py).

Di-Me ether: see **Magnolol**, M-000999 α -Hydroxy: **9 α -Hydroxymedioresinol**
 $\text{C}_{21}\text{H}_{24}\text{O}_8$ M 404.416

Constit. of *A. nerifolia*. Prisms (MeOH). Mp 210-213°. $[\alpha]_D^{18}$ +44.0° (c, 0.49 in MeOH).

(-)-form

Isol. from *Dirca occidentalis*. Mp 155-160°. $[\alpha]_D^{25}$ -17.0° (c, 0.14 in CHCl_3).

Deyama, T., *Chem. Pharm. Bull.*, 1983, **31**, 2993; 1985, **33**, 3651 (*isol, struct, diglucoside, Eucommin A*)

Badawi, M.M. *et al*, *J. Pharm. Sci.*, 1983, **72**, 1285 (*isol*)

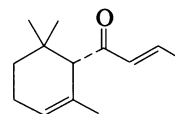
Abe, F. *et al*, *Phytochemistry*, 1988, **27**, 575.

Subba Raju, G.V. *et al*, *Indian J. Chem., Sect. B*, 1989, **28**, 558.

Sugiyama, M. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 483 (*Isoeucommin A*)

4,8-Megastigmadien-7-one**M-10025**

1-(2,6,6-Trimethyl-cyclohexen-1-yl)-2-buten-1-one, 9CI. 6-(2-Butenyl)-1,5,5-trimethylcyclohexene


 $\text{C}_{13}\text{H}_{20}\text{O}$ M 192.300
(S,E)-form [24720-09-0] **α -Damascone**

Constit. of black tea. Perfumery ingredient. Cryst.

(pentane). Mp 20-21°. Bp_{0.001} 77-80°. $[\alpha]_D^{24}$ -510° (c, 1.92 in CHCl_3).

Demole, E. *et al*, *Helv. Chim. Acta*, 1970, **53**, 541 (*synth*)

Schulte-Elte, K.H. *et al*, *Helv. Chim. Acta*, 1973, **56**, 310 (*synth*)

Ohloff, G. *et al*, *Helv. Chim. Acta*, 1973, **56**, 1503 (*synth*)

Mandai, T. *et al*, *J. Org. Chem.*, 1984, **49**, 3403 (*synth*)

König, W.A. *et al*, *Tetrahedron*, 1989, **45**, 7003 (*isol, abs config*)

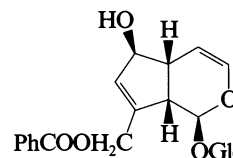
Azzari, E. *et al*, *J. Org. Chem.*, 1990, **55**, 1106 (*synth*)

Mori, K. *et al*, *Tetrahedron*, 1993, **49**, 1871 (*synth*)

Melampyroside**M-10026**

Updated Entry replacing M-00409

7-[(Benzoyloxy)methyl]-1,4a,5,7a-tetrahydro-5-hydroxycyclopenta[c]pyran-1-yl- β -D-glucopyranoside, 9CI [55785-60-9]


 $\text{C}_{22}\text{H}_{26}\text{O}_{10}$ M 450.441

Isol. from *Melampyrium silvaticum* and *Lathrea squamaria*. Mp 84-85°. $[\alpha]_D^{23}$ -50° (c, 0.3 in Me_2CO).

Penta-Ac: Mp 74-75°. $[\alpha]_D^{24}$ -94° (c, 0.33 in Me_2CO).

6'-O-Glucopyranoside:

 $\text{C}_{28}\text{H}_{36}\text{O}_{15}$ M 612.583

Constit. of *L. squamaria*. Amorph. solid. $[\alpha]_D^{20}$ -32.0° (c, 0.97 in MeOH).

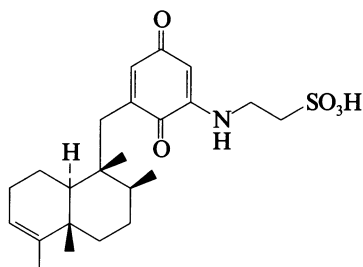
Ahn, B.Z. *et al*, *Tetrahedron*, 1974, **30**, 4049 (*isol, pmr*)

Grabias, B. *et al*, *Phytochemistry*, 1993, **32**, 1489 (*isol, pmr, cmr, ms*)

Melemeleone A

[144587-55-3]

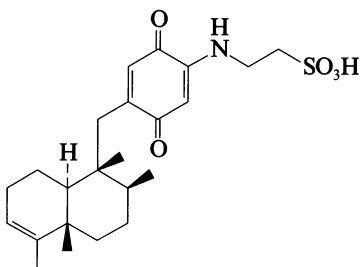
M-10027

C₁₈H₂₄O₇ M 352.383Constit. of *I. crithmoides*. [α]_D²⁵ + 3° (c, 2.4 in CHCl₃).Marco, J.A. et al, *Phytochemistry*, 1993, 33, 875 (isol, pmr, cmr)C₂₃H₃₃NO₅S M 435.583Constit. of *Dysidea avara*. Red amorph. solid. Mp 110-115°. [α]_D²⁰ - 20.1° (c, 0.006 in CH₂Cl₂).Alvi, K.A. et al, *J. Org. Chem.*, 1992, 57, 6604 (isol, pmr, cmr)

Melemeleone B

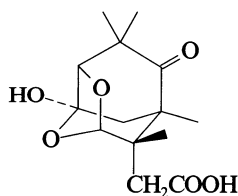
[144587-56-4]

M-10028

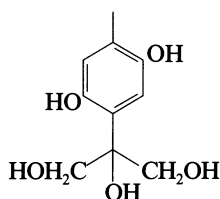
C₂₃H₃₃NO₅S M 435.583Constit. of *Dysidea avara*. Red amorph. solid. Mp 190-200°. [α]_D²⁰ - 22.0° (c, 0.01 in CH₂Cl₂).Abvi, K.A. et al, *J. Org. Chem.*, 1992, 57, 6604 (isol, pmr, cmr)

Meliracemoic acid

M-10029

C₁₄H₂₀O₆ M 284.308Constit. of *Weinmannia racemosa*. Yellow syrup.Ede, R.M. et al, *Tetrahedron Lett.*, 1993, 34, 6795 (isol, pmr, cmr)*p*-Mentha-1,3,5-triene-2,5,8,9,10-pentol

M-10030

C₁₀H₁₄O₅ M 214.218

9-Tigloyl, 2-Me ether: [150641-34-2].

C₁₆H₂₂O₆ M 310.346Constit. of *Inula crithmoides*. Oil. [α]_D²⁵ + 8° (c, 2.6 in CHCl₃).

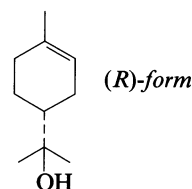
9-Tigloyl, 2-Me ether, 10-Ac: [150641-35-3].

p-Menth-1-en-8-ol

M-10031

 $\alpha,\alpha,4$ -Trimethyl-3-cyclohexene-1-methanol, 9CI. 4-(1-Hydroxy-1-methylethyl)-1-methylcyclohexene. α -Terpineol. Terpinol†

[98-55-5]

C₁₀H₁₈O M 154.252All stereoisomers occur widely in essential oils (*Artemisia*, *Cinnamomum*, *Juniperus*, *Eucalyptus* and *Mentha* spp.). Important perfumery ingredient. Acetate and other simple esters are also used in perfumery and flavourings.

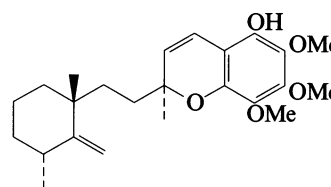
▷ Flammable, fl.p. 43°. WZ6700000.

(R)-form [7785-53-7]Cryst. Mp 37°. Bp₁₅ 104°. [α]_D²⁰ + 100.5°.*(S)*-form [10482-56-1]Cryst. Mp 37°. Bp₁₅ 104°. [α]_D²⁰ - 100.5°. (\pm) -form [2438-12-2]Cryst. Mp 40-41°. Bp₁₂ 99-100°.Freudenberg, K. et al, *Justus Liebigs Ann. Chem.*, 1955, 594, 76 (abs config)Prelog, V. et al, *Justus Liebigs Ann. Chem.*, 1957, 603, 1 (synth)Mitzner, B.M. et al, *Am. Perfum. Cosmet.*, 1966, 81, 25 (ir)Beckey, H.D. et al, *Org. Mass Spectrom.*, 1968, 1, 47 (ms)Karrer, W. et al, *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd Ed., Birkhäuser Verlag, Basel, 1972-1985, no. 299 (occur)Morris, W.W., *J. Assoc. Off. Anal. Chem.*, 1973, 56, 1037 (ir)Bohlmann, F. et al, *Org. Magn. Reson.*, 1975, 7, 426 (cmr)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, TBD750.

Metachromin D

M-10032

[143592-21-6]

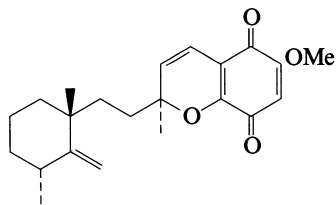
C₂₄H₃₄O₅ M 402.530Constit. of *Hippospongia metachroma*. Oil. [α]_D²² + 15° (c, 0.7 in CHCl₃).Kobayashi, J. et al, *J. Org. Chem.*, 1992, 57, 5773 (isol, pmr, cmr)

Metachromin E

[143592-22-7]

M-10033

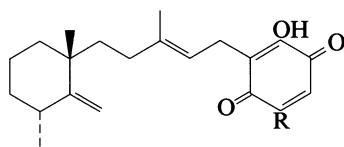
Prod. by *Metarhizium* sp. TA 2759. Immunomodulator.
Prisms (MeOH aq.). Mp 201-202°. $[\alpha]_D^{27} +5.1^\circ$ (c, 0.63 in MeOH).

Iijima, M. *et al*, *J. Antibiot.*, 1992, **45**, 1553 (*isol, struct, props*) $C_{22}H_{28}O_4$ M 356.461

Constit. of *Hippospongia metachroma*. Orange oil. $[\alpha]_D^{22} -54^\circ$ (c, 0.3 in $CHCl_3$).

Kobayashi, J. *et al*, *J. Org. Chem.*, 1992, **57**, 5773 (*isol, pmr, cmr*)**Metachromin F**

[143592-23-8]

M-10034R = $OCH_2CH_2CH_2CH_3$ $C_{25}H_{36}O_4$ M 400.557

Constit. of *Hippospongia metachroma*. Yellow oil. $[\alpha]_D^{22} -4^\circ$ (c, 0.2 in $CHCl_3$).

Kobayashi, J. *et al*, *J. Org. Chem.*, 1992, **57**, 5773 (*isol, pmr, cmr*)**Metachromin G**

[143592-24-9]

M-10035

As Metachromin F, M-10034 with

R = $NHCH_2CH_2Ph$ $C_{29}H_{37}NO_3$ M 447.616

Constit. of *Hippospongia metachroma*. Purple oil. $[\alpha]_D^{20} -18^\circ$ (c, 0.2 in C_6H_6).

Kobayashi, J. *et al*, *J. Org. Chem.*, 1992, **57**, 5773 (*isol, pmr, cmr*)**Metachromin H**

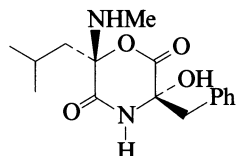
[143592-25-0]

M-10036

As Metachromin F, M-10034 with

R = $NHCH_2CH_2CH(CH_3)_2$ $C_{26}H_{39}NO_3$ M 413.599

Constit. of *Hippospongia metachroma*. Purple oil. $[\alpha]_D^{19} -9^\circ$ (c, 0.2 in C_6H_6).

Kobayashi, J. *et al*, *J. Org. Chem.*, 1992, **57**, 5773 (*isol, pmr, cmr*)**Metacyclofilin****M-10037**

Relative configuration

 $C_{16}H_{22}N_2O_4$ M 306.361**3-Methoxybenzoic acid, 9CI****M-10038***m*-Anisic acid, 8CI

[586-38-9]

 $C_8H_8O_3$ M 152.149

Constit. of stems and leaves of *Anthyllis sericea*. Needles (H_2O). Mp 110.5°. Bp₁₀ 170-172°. pK_a 4.10 (25°), pK_a 5.37 (25°, 50% EtOH aq.).

▷ BZ4375000.

Me ester: [5368-81-0]. $C_9H_{10}O_3$ M 166.176Bp_{0.1} 80-81°.*Et ester*: [10259-22-0]. $C_{10}H_{12}O_3$ M 180.203Bp₅ 110°.*Chloride*: [1711-05-3]. $C_8H_7ClO_2$ M 170.595Bp₂₄ 148°.*Amide*: [5813-86-5]. $C_8H_9NO_2$ M 151.165

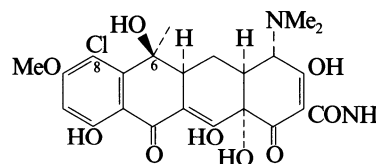
Mp 134°.

Nitrile: [1527-89-5]. 1-Cyano-3-methoxybenzene. 3-Cyanoanisole C_8H_7NO M 133.149Mp 60°. Bp₁₄ 113°.Dippy, J.F.J., *J. Chem. Soc.*, 1936, 644 (*synth*)Grammaticakis, P., *Bull. Soc. Chim. Fr.*, 1940, **7**, 527 (*synth*)Korst, J.J. *et al*, *J. Am. Chem. Soc.*, 1968, **90**, 439 (*synth*)v. Meurs, F. *et al*, *J. Organomet. Chem.*, 1977, **142**, 299.Marco, J.A. *et al*, *Phytochemistry*, 1978, **17**, 1438 (*occur*)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, AOU500.**8-Methoxychlorotetracycline****M-10039**

Updated Entry replacing M-00664

Sch 36969. Antibiotic Sch 36969

[110298-63-0]

 $C_{23}H_{25}ClN_2O_9$ M 508.911Tetracycline antibiotic. Prod. by *Actinomadura brunnea*.

Active against gram-positive and -negative bacteria. No phys. props. reported.

N-Me: [110298-65-2]. **8-Methoxy-N-****methylchlorotetracycline**. *Sch 33256. Antibiotic Sch 33256* $C_{24}H_{27}ClN_2O_9$ M 522.938

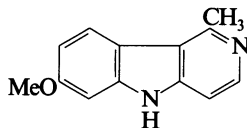
From *A. brunnea*. Primarily active against gram-positive bacteria. Yellow cryst. Mp 180-185° dec. $[\alpha]_D^{26} -105.5^\circ$ (c, 0.5 in MeOH).

4α-Hydroxy, 6-epimer: [110298-64-1]. **Dactylocyclinone**.*4α-Hydroxy-8-methoxychlorotetracycline*. *Sch 34164. Antibiotic Sch 34164* $C_{23}H_{25}ClN_2O_{10}$ M 524.911

Prod. by *Dactylosporangium* sp. Active against gram-positive and -negative bacteria.

Miller, G.H. *et al*, *J. Antibiot.*, 1987, **40**, 1408, 1414, 1419, 14 (*isol. struct., props*)
 Tymiak, A.A. *et al*, *J. Antibiot.*, 1992, **45**, 1892, 1899, 1907
 (*Dactylocyclinone*)

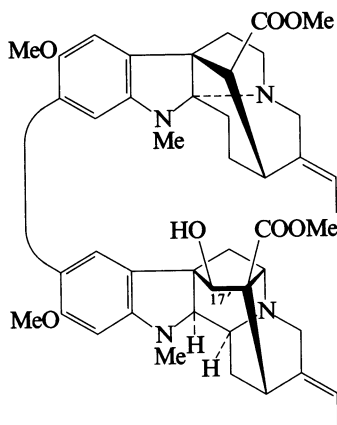
7-Methoxy-4-methyl- γ -carboline **M-10040**
 7-Methoxy-1-methyl-5H-pyrido[4,3-b]indole, 9Cl. γ -*Harmine*
 [128508-19-0]



$C_{13}H_{12}N_2O$ M 212.251
 Alkaloid from the seeds of *Peganum harmala*
 (Zygophyllaceae). First example of a naturally occurring
 γ -carboline alkaloid.

Li, G. *et al*, *Zhiwu Xuebao*, 1989, **31**, 393; *CA*, **113**, 74723m (*isol*)

11-[10-(11-Methoxyvincamajinyl)]vincorine **M-10041**
 [142795-96-8]

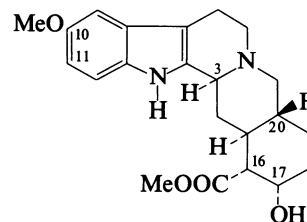


$C_{45}H_{54}N_4O_7$ M 762.944
 Alkaloid from the leaves of *Tonduzia pittieri* (*Alstonia pittieri*) (Apocynaceae).

Ac: [142750-30-9]. **11-[10-(11-Methoxyvincamedinyl)]vincorine**
 $C_{47}H_{56}N_4O_8$ M 804.981
 Alkaloid from leaves of *T. pittieri* (Apocynaceae). $[\alpha]_D$
 -58° (c, 1 in $CHCl_3$).
17'-Epimer: [142750-29-6]. **11-[10-(11-Methoxy-17-epi-
 vincamajinyl)]vincorine**
 $C_{45}H_{54}N_4O_7$ M 762.944
 Alkaloid from leaves of *T. pittieri* (Apocynaceae). $[\alpha]_D$
 -37° (c, 1 in $CHCl_3$).

Morfaux, A.-M. *et al*, *Phytochemistry*, 1992, **31**, 1079 (*isol. uv, ir, pmr, cmr, ms, struct*)

10-Methoxyyohimbine **M-10042**
 Updated Entry replacing M-00774
 16-Epiexcelsinine
 [15266-53-2]



$C_{22}H_{28}N_2O_4$ M 384.474
 Alkaloid from bark of *Aspidosperma pruinosa*
 (Apocynaceae). Amorph. solid. $[\alpha]_D^{25} +56.6^\circ$ (c, 1.2 in
 EtOH).

B, HCl: [16218-82-9].

Mp 275° dec. $[\alpha]_D +77^\circ$ (EtOH).

16-Epimer: [15218-17-4]. **Excelsinine. 10-Methoxycorynanthine**

$C_{22}H_{28}N_2O_4$ M 384.474

Alkaloid from *Aspidosperma excelsum* (Apocynaceae).
 Cryst. (MeOH). Mp $199-201^\circ$ dec. $[\alpha]_D -63.4^\circ$ (Py).

16-Epimer; B, HCl: [15218-18-5].

$[\alpha]_D -54.5^\circ$. No def. Mp.

16-Epimer, O-Ac: [16179-94-5].

Mp 225° dec. $[\alpha]_D -54.8^\circ$ (Py).

17-Epimer: [88607-64-1]. **10-Methoxy- β -yohimbine**

$C_{22}H_{28}N_2O_4$ M 384.474

Alkaloid from the seeds of *A. oblongum* (Apocynaceae).
 Amorph. $[\alpha]_D +29^\circ$ (c, 0.31 in MeOH).

16,20-Diepimer: [88668-49-9]. **10-Methoxy- α -yohimbine**

$C_{22}H_{28}N_2O_4$ M 384.474

Alkaloid from the seeds of *A. oblongum* (Apocynaceae).
 Amorph. $[\alpha]_D -13^\circ$ (c, 0.71 in MeOH).

17,20-Diepimer: [88644-43-3]. **10-Methoxy-17-epialloyohimbine**

$C_{22}H_{28}N_2O_4$ M 384.474

Alkaloid from the seeds of *A. oblongum* (Apocynaceae).
 Amorph. $[\alpha]_D +4^\circ$ (c, 0.53 in MeOH). Rare stereochem.
 not yet encountered among the yohimbine
 stereoisomers.

3,16,20-Triepimer: [121154-13-0]. **10-Methoxy-3-epi- α -yohimbine**

$C_{22}H_{28}N_2O_4$ M 384.474

Alkaloid from the stem bark of *Alstonia coriacea*
 (Apocynaceae). $[\alpha]_D -66^\circ$ (c, 1 in $CHCl_3$).

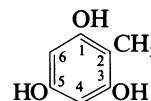
Benoin, P.R. *et al*, *Can. J. Chem.*, 1967, **45**, 725 (*isol. uv, pmr, ms, Excelsinine*)

Robert, G.M.T. *et al*, *J. Nat. Prod. (Lloydia)*, 1983, **46**, 708 (*isol. uv, ir, pmr, cmr, ms, cd, struct, epimers*)

Cherif, A. *et al*, *Phytochemistry*, 1989, **28**, 667 (*10-methoxy-3-epi- α -yohimbine*)

Nunes, D.S. *et al*, *Phytochemistry*, 1992, **31**, 2507 (*10-Methoxyyohimbine*)

2-Methyl-1,3,5-benzenetriol **M-10043**
 2,4,6-Trihydroxytoluene. 2-Methylphloroglucinol
 [88-03-9]



$C_7H_8O_3$ M 140.138
 Needles (EtOAc). Mp $214-216^\circ$. Sublimes.

Tri-Ac:

C₁₃H₁₄O₆ M 266.250

Needles (petrol). Mp 52°, Mp 76°.

1-Me ether: [55382-24-6]. 5-Methoxy-4-methyl-1,3-benzenediol. 5-Methoxy-4-methylresorcinol

C₈H₁₀O₃ M 154.165Cryst. + 1H₂O (H₂O). Mp 91°.

5-Me ether: [6307-89-7]. 5-Methoxy-2-methyl-1,3-benzenediol. 5-Methoxy-2-methylresorcinol

C₈H₁₀O₃ M 154.165Cryst. (xylene). Mp 124°. Bp₂₀ 195-198°.

1,5-Di-Me ether: [39828-36-9]. 3,5-Dimethoxy-2-methylphenol

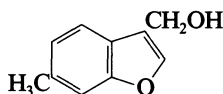
C₉H₁₂O₃ M 168.192Cryst. (xylene/petrol). Mp 60-61°. Bp₂₀ 178-180°.

Tri-Me ether: [14107-97-2]. 1,3,5-Trimethoxy-2-methylbenzene. 2,4,6-Trimethoxytoluene

C₁₀H₁₄O₃ M 182.219Isol. from leaves of *Stockwellia* spp. Mp 10-13°. Bp₁₈ 140-142°.McGookin, A. et al, *J. Chem. Soc.*, 1951, 2021 (synth)Robertson, A. et al, *J. Chem. Soc.*, 1951, 3355 (synth)Brophy, J.J. et al, *Phytochemistry*, 1992, 31, 324 (isol)**6-Methyl-3-benzofuranmethanol****M-10044**

3-(Hydroxymethyl)-6-methylbenzofuran

[125132-27-6]

C₁₀H₁₀O₂ M 162.188Isol. from *Ageratina glechonophylla*. Oil.

Ac: [125132-28-7]. 3-(Acetoxymethyl)-6-methylbenzofuran

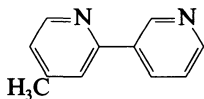
C₁₂H₁₂O₃ M 204.225Isol. from *A. glechonophylla*. Oil.

O-(2-Methylpropanoyl): [125132-29-8]. 3-

(Isobutyryloxymethyl)-6-methylbenzofuran

C₁₄H₁₆O₃ M 232.279Isol. from *A. glechonophylla*. Oil.Gonzalez, A.G. et al, *Phytochemistry*, 1989, 28, 2520 (isol)Gonzalez, A.G. et al, *Heterocycles*, 1992, 34, 1311 (synth)**4-Methyl-2,3'-bipyridine, 9CI****M-10045**

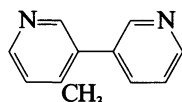
[38840-05-0]

C₁₁H₁₀N₂ M 170.213Present in burley tobacco (*Nicotiana tabacum*). Liq. Bp₁ 166°.

Picrate: Cryst. (EtOH). Mp 202-203°.

Frank, R.L. et al, *Bull. Soc. Chim. Fr.*, 1958, 419 (synth)Warfield, A.H. et al, *Phytochemistry*, 1972, 11, 3371 (isol, synth, ir, ms)Ishikura, M. et al, *Synthesis*, 1984, 936 (synth)**4-Methyl-3,3'-bipyridine, 9CI****M-10046**

[38840-06-1]

C₁₁H₁₀N₂ M 170.213Isol. from burley tobacco (*Nicotiana tabacum*).Warfield, A.H. et al, *Phytochemistry*, 1972, 11, 3371 (isol, synth, ir, pmr)**2-Methyl-1,3-butadiene, 9CI****M-10047**

Isoprene

[78-79-5]

C₅H₈ M 68.118Constit. of volatiles prod. by many trees. Formed by pyrolysis of natural rubber. Used in manuf. of synthetic and butyl rubbers, copolymer for synthetic rubbers. d₄²⁰ 0.681. Fp -147°. Bp 34.5-35.0°. n_D²⁰ 1.4216. Readily polymerises.

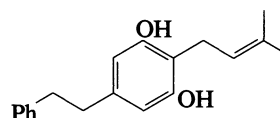
► Extremely flammable, fl.p. -53° autoignition temp. 270/395°. Forms explosive peroxide in air. Eye, skin and respiratory tract irritant. NT4037000.

Gallant, R.W., *Hydrocarbon Process.*, 1967, 46, 155 (props)Fowler, R. et al, *Chem. Eng. (Rugby, Engl.)*, 1971, 253, 322 (rev)Tai, J.C. et al, *J. Am. Chem. Soc.*, 1976, 98, 7928 (conformn, struct)Kirk-Othmer *Encycl. Chem. Technol.*, 3rd Ed., Wiley, N.Y., 1978-1984, 13, 819 (rev)Arnts, R.R. et al, *Atmos. Environ.*, 1981, 15, 1643 (occur)Kvariani, L.D. et al, *CA*, 1987, 106, 116522h (isol)Patty's *Ind. Hyg. Toxicol. (3rd Rev. edn.)*, Vol. 2, Wiley, 1980, 3208.Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, IMS000.Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworth, London and Boston, 1990, 1775.Luxon, S.G., *Hazards in the Chemical Laboratory*, 5th edn., Royal Society of Chemistry, Cambridge, 1992, 757.**2-(3-Methyl-2-butenyl)-5-(2-phenylethyl)-1,3-benzenediol, 9CI****M-10048**

Updated Entry replacing M-00867

3,5-Dihydroxy-4-(3-methyl-2-butenyl)bibenzyl. 5-Phenethyl-2-prenylresorcinol

[70610-11-6]

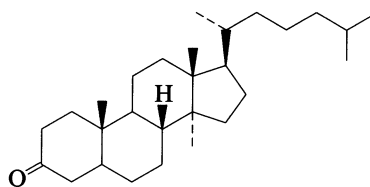
C₁₉H₂₂O₂ M 282.382Isol. from *Glycyrrhiza lepidota* and *Radula* spp. Needles (cyclohexane). Mp 80-81° (79-80°).

3-Me ether: [70610-10-5]. 3-Methoxy-5-(2-phenylethyl)-2-prenylphenol. 3-Hydroxy-5-methoxy-4-prenylbibenzyl

C₂₀H₂₄O₂ M 296.408Isol. from *Glycyrrhiza acanthocarpa* and *Radula* spp. Oil.Asakawa, Y. et al, *Phytochemistry*, 1978, 17, 2115 (isol, struct)Ghisalberti, E.L. et al, *Phytochemistry*, 1981, 20, 1959 (isol, deriv)Asakawa, Y. et al, *Phytochemistry*, 1991, 30, 235 (isol, pmr, cmr)Eicher, T. et al, *Synthesis*, 1991, 98 (synth)

14-Methylcholestan-3-one

M-10049

C₂₈H₄₈O M 400.687(5 α ,14 α)-formConstit. of mature straw (*Triticum aestivum*).Gaspar, E.M.M. *et al*, *Phytochemistry*, 1993, **34**, 523 (*isol*)

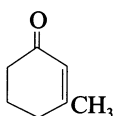
3-Methyl-2-cyclohexen-1-one, 9CI

M-10050

Updated Entry replacing M-00914

Seudenone

[1193-18-6]

C₇H₁₀O M 110.155

Pheromone of mountain pine beetle *Dendroctonus ponderosae*, Douglas fir beetle *D. pseudotsugae* and several other bark beetles. Douglas fir beetle repellent. Light-sensitive liq. Mp -21°. Bp 200-202°, Bp₁₂ 78-79°. Steam-volatile.

Oxime: [2607-95-6].C₇H₁₁NO M 125.170Bp₃ 93-95°.

2,4-Dinitrophenylhydrazone: [3234-76-2].

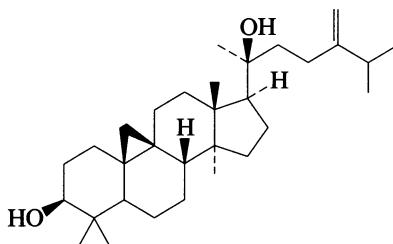
Mp 177-178°.

[88693-90-7]

Rabe, P. *et al*, *Ber.*, 1912, **45**, 2926 (*isol*)Natelson, S. *et al*, *J. Am. Chem. Soc.*, 1939, **61**, 1001 (*synth*)Torri, J. *et al*, *Tetrahedron Lett.*, 1973, 3251 (*uv*)Torri, J. *et al*, *Bull. Soc. Chim. Fr.*, 1974, 1633 (*cmr*)Pitman, G.B. *et al*, *Environ. Entomol.*, 1974, **3**, 886 (*biosynth*)Ager, D.J. *et al*, *J. Chem. Soc., Chem. Commun.*, 1978, 177 (*synth*)Helferty, P.H. *et al*, *Org. Magn. Reson.*, 1983, **21**, 352 (*cmr*)Bestmann, H.J. *et al*, *Chem. Ber.*, 1985, **118**, 2640 (*synth*)Robinson, P.L. *et al*, *J. Org. Chem.*, 1985, **50**, 3860 (*synth*, *pmr*)Ponaras, A.A. *et al*, *J. Org. Chem.*, 1988, **53**, 1110 (*synth*)Cahiez, G. *et al*, *Tetrahedron Lett.*, 1989, **30**, 3541 (*synth*)Boykin, D.W. *et al*, *Magn. Reson. Chem.*, 1990, **28**, 305 (*O-17 nmr*)Bestmann, H.J. *et al*, *Chem. Ber.*, 1993, **126**, 725 (*synth*)

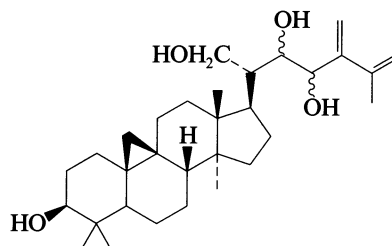
24-Methylenecycloartane-3,20-diol

M-10051

C₃₁H₅₂O₂ M 456.751(3 β ,20S)-form [150527-27-8]Constit. of *Neolitsea sericea*. Plates.Sharma, M.C. *et al*, *Phytochemistry*, 1993, **33**, 721 (*isol*, *pmr*, *cmr*)

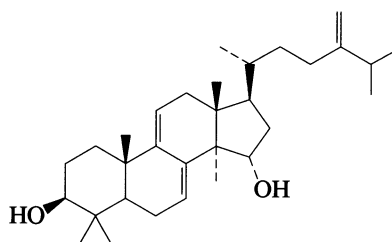
24-Methylenecycloart-25-ene-3,21,22,23-tetrol

M-10052

C₃₁H₅₀O₄ M 486.734(3 β ,22 ξ ,23 ξ)-form [148044-49-9]Constit. of *Guarea trichilioides*. Cryst. Mp 143-145°. [α]_D²⁵ +18.2° (c, 1.2 in MeOH).Furlan, N. *et al*, *Phytochemistry*, 1993, **32**, 1519 (*isol*, *pmr*, *cmr*)

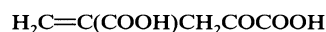
24-Methylenelanosta-7,9(11)-diene-3,15-diol

M-10053

C₃₁H₅₀O₂ M 454.735(3 β ,15 α)-form [151368-42-2] *Suberosol*Constit. of *Polyalthia suberosa*. Needles (C₆H₆). Mp 179-182°. [α]_D²⁰ +107° (c, 0.19 in CHCl₃).Li, H.-Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1130 (*isol*, *pmr*, *cmr*)

2-Methylene-4-oxopentanedioic acid

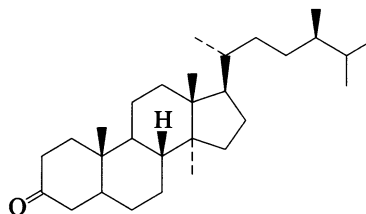
M-10054

 γ -Methylene- α -ketoglutaric acid. 2-Methylene-4-oxoglutaric acidC₆H₆O₅ M 158.110Isol. from leaves of *Tulipa gesneriana* and from *Arachis hypogaea*. Found as a trace in *Sophora japonica*.Towers, G.H.N. *et al*, *J. Am. Chem. Soc.*, 1954, **76**, 1959.Fowden, L. *et al*, *Biochem. J.*, 1955, **59**, 228.Winter, H.C. *et al*, *Phytochemistry*, 1987, **26**, 2477 (*occur*)

14-Methylergostan-3-one

M-10055

14,24-Dimethylcholestan-3-one

C₂₉H₅₀O M 414.713

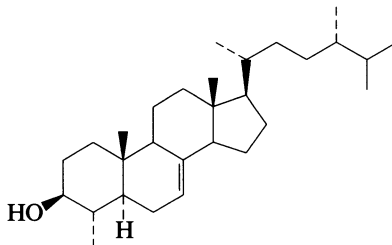
(5 α ,14 α ,24R)-form

Constit. of mature straw (*Triticum aestivum*). Cryst. (EtOH). Mp 152-155°.

Gaspar, E.M.M. *et al*, *Phytochemistry*, 1993, **34**, 523 (*isol*, *pmr*)

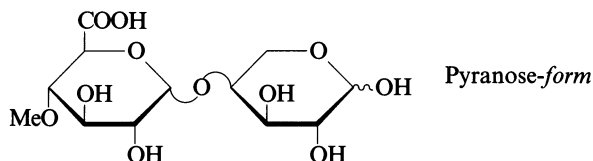
4-Methylergost-7-en-3-ol**M-10056**

4,24-Dimethylcholest-7-en-3-ol

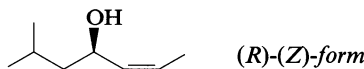
C₂₉H₅₀O M 414.713**(3 β ,4 α ,5 α ,24R)-form** [33903-17-2] **24 α -Methylphenol**

Isol. from Douglas fir sapwood, seeds of *Phaseolus vulgaris* and other plants. Mp 140-141° (as acetate).

[1106-35-0, 81275-83-4, 81445-17-2]

Conner, A.H. *et al*, *Phytochemistry*, 1981, **20**, 2543 (*isol*, *pmr*)Akihisa, T. *et al*, *Phytochemistry*, 1989, **28**, 1219 (*isol*, *pmr*, *ms*)**4-O-(4-O-Methyl- α -D-****M-10057****glucopyranuronosyl)-L-arabinose**C₁₂H₂₀O₁₁ M 340.283

Isol. from the partial hydrolysates of lemon gum. Based on paper chromatographic evidence only, reported present in the hydrolysates of gums from several *Prunus* and *Citrus* spp. [α]_D +134° (H₂O).

Andrews, P. *et al*, *J. Chem. Soc.*, 1954, 1724 (*isol*)Guzman, E. *et al*, *Rev. Espan. Fisiol.*, 1960, **16**, 331.**6-Methyl-2-hepten-4-ol, 9CI****M-10058**Isobutylpropenylcarbinol. **Rhynchophorol**C₈H₁₆O M 128.214**(R)-(Z)-form** [59983-76-5]

Oil. Bp₁ 48-49°. [α]_D²⁵ +21.02° (c, 5.05 in CHCl₃).

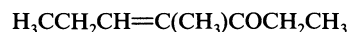
(S)-(E)-form [59983-79-8]

Aggregation pheromone of the male *Rhynchophorus palmarum*. Oil. Bp_{0.6} 43-44°. [α]_D²⁵ -9.88° (c, 5.1 in CHCl₃).

(±)-form

Bp₂₁ 75-75.5°. Probably a mixt. of (E)- and (Z)-forms.

[64727-70-4, 66900-47-8, 66900-48-9, 83212-30-0, 109214-86-0]

v. Auwers, K. *et al*, *Ber.*, 1921, **54**, 2996 (*synth*)Bartlett, P.D. *et al*, *J. Biol. Chem.*, 1937, **118**, 513 (*synth*)Karasev, K.I. *et al*, *CA*, 1941, **35**, 3225 (*synth*)Chan, K.-K. *et al*, *J. Org. Chem.*, 1976, **41**, 3497; 1978, **43**, 3435 (*synth*)Rochat, D. *et al*, *J. Chem. Ecol.*, 1991, **17**, 2127 (*isol*)Oppolzer, W. *et al*, *Tetrahedron Lett.*, 1991, **32**, 5777 (*synth*)Oehlschlager, A.C. *et al*, *Naturwissenschaften*, 1992, **79**, 134 (*isol*, *synth*)**4-Methyl-4-hepten-3-one, 8CI****M-10059**C₈H₁₄O M 126.198

Constit. of the defence secretions of *Leiobunum* spp. Bp 170-172°, Bp₁₀ 66°.

2,4-Dinitrophenylhydrazone: Mp 147° (139°).

Semicarbazone: Mp 167°.

[27771-19-3]

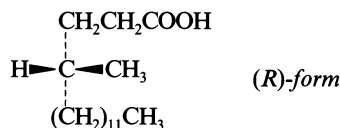
Dubois, J.E. *et al*, *Bull. Soc. Chim. Fr.*, 1954, 1153 (*synth*)Conia, J.M., *Bull. Soc. Chim. Fr.*, 1956, 1392 (*synth*)Faulk, D.D. *et al*, *J. Org. Chem.*, 1970, **35**, 364 (*synth*, *conformn*)Jones, T.H. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1977, **74**, 419 (*isol*)**6-Methyl-5-hepten-3-yn-2-one****M-10060****Taxifolione**

[149183-86-8]

C₈H₁₀O M 122.166Constit. of *Caulerpa taxifolia*. Oil.Guerrero, A. *et al*, *Helv. Chim. Acta*, 1993, **76**, 855 (*isol*, *pmr*, *cmr*)**4-Methylhexadecanoic acid, 9CI****M-10061**

4-Methylpalmitic acid

[53696-23-4]

C₁₇H₃₄O₂ M 270.454

Constit. of animal lipids.

(R)-form [89051-73-0]

No phys. props. reported.

(±)-formCryst. (pet. ether). Mp 44.5-45° (41°). Bp_{0.2} 159-162°.**Et ester:**C₁₉H₃₈O₂ M 298.508Liq. Bp₁₅ 200-202°.**Amide:**C₁₇H₃₅NO M 269.470

Cryst. (MeOH). Mp 74-74.5°.

Anilide:C₂₃H₃₉NO M 345.567

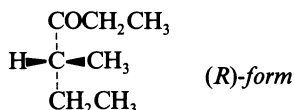
Cryst. or needles. Mp 60°.

[2490-14-4]

Asano, M. *et al*, *Yakugaku Zasshi*, 1950, **70**, 202 (*synth*)Weitzel, G. *et al*, *Hoppe Seyler's Z. Physiol. Chem.*, 1951, **287**, 65 (*ester*, *amide*)Ackman, R.G. *et al*, *Lipids*, 1972, **7**, 683 (*isol*)Kuwahara, S. *et al*, *Agric. Biol. Chem.*, 1983, **47**, 2599 (*synth*)

4-Methyl-3-hexanone, 9CI*sec-Butyl ethyl ketone*

[17042-16-9]

 $C_7H_{14}O$ M 114.187**(R)-form** [77858-08-3]Liq. Bp₁₀₀ 74-77°. [α]_D²⁵ -30.8° (c, 4 in Et₂O)(96% e.e.).**(S)-form** [20086-34-4][α]_D²⁵ +8.5°.**(±)-form**Constit. of the defence secretions of *Leiobunum* spp. d¹⁹
0.825. Bp 134-135°.*Semicarbazone*: Mp 137°.Bartlett, P.D. *et al*, *J. Am. Chem. Soc.*, 1935, **57**, 2580 (*synth, abs config*)Hudson, B.E. *et al*, *J. Am. Chem. Soc.*, 1941, **63**, 3163 (*synth*)Lardicci, L. *et al*, *J. Chem. Soc., Chem. Commun.*, 1968, 381 (*ord, cd*)Jones, T.H. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1977, **74**, 419 (*isol*)Brown, H.C. *et al*, *J. Am. Chem. Soc.*, 1988, **110**, 1529 (*synth, pmr, cmr, ir*)**4-Methyl-4-hexen-3-one, 9CI**

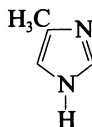
[52883-78-0]

 $C_7H_{12}O$ M 112.171Bp₄₅ 75.7-76°, Bp₁₃ 50.5°.*Semicarbazone*: Mp 161-162°.*4-Nitrophenylhydrazones*: Yellowish-red needles (AcOH).

Mp 134°.

(E)-form [62332-64-3]Constit. of the defence secretions of *Leiobunum nigripalpi*. Oil. Bp₄₃ 73°.Blaise, E.E. *et al*, *C. R. Hebd. Seances Acad. Sci.*, 1908, **146**, 1326 (*synth*)Heilmann, R. *et al*, *Bull. Soc. Chim. Fr.*, 1961, 1337 (*synth*)Elguero, J. *et al*, *Bull. Soc. Chim. Fr.*, 1973, 3401 (*synth*)Jones, T.H. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1977, **74**, 419 (*isol*)Hong, P. *et al*, *J. Organomet. Chem.*, 1987, **334**, 129 (*synth*)**4(5)-Methylimidazole, 9CI**

[822-36-6]

 $C_4H_6N_2$ M 82.105Isol. from flowers of *Sophora flavescens*. Cryst. Sol. H₂O, EtOH. Mp 56°. Bp 263°, Bp_{0.2} 120-125°. Prob. an artifact.

▷ NI7350000.

Picrate: Yellow cryst. (H₂O). Mp 159-160°.*N-Benzoyl*: $C_{11}H_{10}N_2O$ M 186.213Needles. V. sol. EtOH, Me₂CO, C₆H₆, sol. pet. ether. Mp 54-55°.*1-Me*: [6338-45-0]. *1,4-Dimethyl-1H-imidazole***M-10062** $C_5H_8N_2$ M 96.132

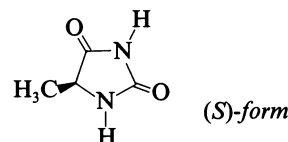
Bp 198-200°.

1-Me; *B,HCl*: Mp 168-169°.*3-Me*: [10447-93-5]. *1,5-Dimethyl-1H-imidazole* $C_5H_8N_2$ M 96.132

Bp 220-222°.

3-Me; *B,HCl*: Mp 194-195°.Gabriel, S. *et al*, *Ber.*, 1893, **26**, 2205.Pyman, F.L., *J. Chem. Soc.*, 1922, **121**, 2621 (*synth, deriv*)Turner, R.A. *et al*, *J. Am. Chem. Soc.*, 1949, **71**, 2801.Bowie, J.H. *et al*, *Aust. J. Chem.*, 1967, **20**, 1613 (*ms*)Martin, P.K. *et al*, *J. Org. Chem.*, 1968, **33**, 3758 (*synth, pmr, ms, derivs*)Matthews, H.R. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 2297 (*nmr, derivs*)Sattler, H.J. *et al*, *Arch. Pharm. (Weinheim, Ger.)*, 1975, **308**, 795 (*cmr, tautom*)Murakoshi, I. *et al*, *Phytochemistry*, 1982, **21**, 2379 (*isol*)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, MKU000.**5-Methyl-2,4-imidazolidinedione, 9CI****M-10065***5-Methylhydantoin*

[616-03-5]

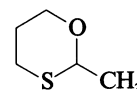
 $C_4H_6N_2O_2$ M 114.104Constit. of *Pueraria lobata* roots.**(S)-form** [40856-73-3]Cryst. (H₂O). [α]_D²⁸ -48° (EtOH), [α]_D -58° (H₂O).*3-N-Hydroxy*: [30293-99-3]. $C_4H_6N_2O_3$ M 130.103Chiral activating reagent used in peptide synth. Mp 163-164°. [α]_D -36.0°.**(±)-form** [67337-69-3]Prisms + H₂O. Sol. H₂O, EtOH, spar. sol. Et₂O. Mp 150-152° (anhyd.).*1-N-Me*: [17374-27-5]. *1,5-Dimethylhydantoin* $C_5H_8N_2O_2$ M 128.130

Needles (EtOH). Mp 120-121°.

[55747-68-7]

Gabriel, S., *Justus Liebigs Ann. Chem.*, 1906, **348**, 75 (*deriv*)Bucherer, H.T. *et al*, *J. Prakt. Chem.*, 1934, **140**, 316 (*synth*)Finkbeiner, H., *J. Org. Chem.*, 1965, **30**, 3414 (*synth*)Suzuki, T. *et al*, *Agric. Biol. Chem.*, 1973, **37**, 411 (*synth, ord, cd*)Poupaert, J.H. *et al*, *Bull. Soc. Chim. Belg.*, 1977, **86**, 465 (*uw, cd, pmr, cmr*)Teramoto, T. *et al*, *Tetrahedron Lett.*, 1977, 1523 (*synth, use, ir, deriv*)*Ger. Pat.*, 2 744 428, (1979); *CA*, **91**, 20509 (*manuf*)Chen, M. *et al*, *Zhongyao Tongbao*, 1985, **10**, 274; *CA*, **103**, 165997p (*occur*)**2-Methyl-1,3-oxathiane, 9CI****M-10066**

[19134-37-3]

 $C_5H_{10}OS$ M 118.199**(ξ)-form**Constit. of the buds of *Allium tuberosum*.

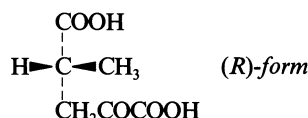
(±)-formBp₂₄ 66-70°, Bp₁₆ 55-56°.

[59324-11-7, 107697-90-5, 107697-95-0, 109577-10-8]

Pagani, G. *et al*, *Gazz. Chim. Ital.*, 1967, **97**, 1770 (*synth*)
 Pihlaja, K., *Acta Chem. Scand.*, 1970, **24**, 2257 (*synth*)
 Pihlaja, K. *et al*, *Org. Mass Spectrom.*, 1971, **5**, 763 (*ms*)
 Pihlaja, K. *et al*, *Org. Magn. Reson.*, 1979, **12**, 331 (*pmr, conformn*)
 Fuji, K. *et al*, *J. Org. Chem.*, 1985, **50**, 657 (*synth, pmr*)
 Yi, Y. *et al*, *CA*, 1992, **117**, 86672 (*isol*)
 Turyanskaya, A.M. *et al*, *Zh. Org. Khim.*, 1992, **28**, 79; *J. Org. Chem. USSR (Engl. Transl.)*, 65 (*pmr, cmr, conformn*)

2-Methyl-4-oxopentanedioic acid**M-10067***2-Methyl-4-oxoglutaric acid*

[55601-64-4]

C₆H₈O₅ M 160.126Constit. of *Lilium regale*, *Phyllitis scolopendrium* and *Tamarindus indica*. Config. not determined.*Di-Et ester*: [107987-03-1].

Oil.

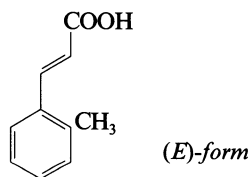
Di-Et ester, 2,4-dinitrophenylhydrazone: [14200-24-9].
Mp 75.5°.**(R)-form** [111768-22-0]Constit. of the seedlings of *Sophora japonica*.

[42998-61-8, 97474-86-7]

Virtanen, A.I. *et al*, *Acta Chem. Scand.*, 1955, **9**, 553 (*isol*)
 Mukherjee, D. *et al*, *Biochem. Physiol. Pflanz.*, 1974, **166**, 429 (*isol*)
 Righini-Tapie, A. *et al*, *J. Appl. Chem.*, 1984, **6**, 361 (*synth*)
 Winter, H.C. *et al*, *Phytochemistry*, 1987, **26**, 2477 (*isol*)
 Dowd, P. *et al*, *Tetrahedron*, 1988, **44**, 2137 (*synth, ester*)
 Shono, T. *et al*, *J. Org. Chem.*, 1990, **55**, 5037 (*synth, ester*)

3-(2-Methylphenyl)-2-propenoic acid, 9CI **M-10068***o-Methylcinnamic acid, 8CI. 3-o-Tolylacrylic acid*

[2373-76-4]

C₁₀H₁₀O₂ M 162.188
pK_a 4.50.**(E)-form** [939-57-1]Cryst. (EtOH or C₆H₆). Mp 175-176°.*Et ester*: [24393-48-4].C₁₂H₁₄O₂ M 190.241Oil. Bp_{2.2} 114-117°, Bp_{1.2} 148°.*Amide: 3-(2-Methylphenyl)-2-propenamamide. U 77863.**Antibiotic U 77863*C₁₀H₁₁NO M 161.203Prod. by *Streptomyces griseoluteus*. Exhibits antitumour props. Cryst. (MeOH). Mp 151-153°.**(Z)-form** [41397-71-1]

Mp 91-92° (89-90°).

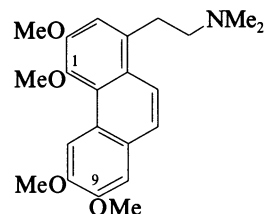
[16366-23-7, 83716-65-8]

Cope, A.C. *et al*, *J. Am. Chem. Soc.*, 1957, **79**, 240 (*synth*)
 Craig, J. *et al*, *Aust. J. Chem.*, 1959, **12**, 447 (*synth*)
 Norcross, B.E. *et al*, *J. Org. Chem.*, 1977, **42**, 369 (*synth*)
 Schaldach, B. *et al*, *Org. Mass Spectrom.*, 1980, **15**, 182 (*ms*)

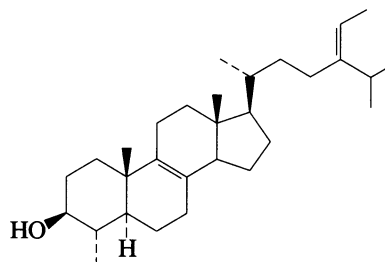
Galamb, V. *et al*, *Tetrahedron Lett.*, 1983, **24**, 2965 (*synth*)Suzuki, H. *et al*, *Chem. Lett.*, 1986, 403 (*ester*)Liu, J.-M. *et al*, *J. Org. Chem.*, 1986, **51**, 1120 (*synth, pmr*)Robinson, C.N. *et al*, *J. Org. Chem.*, 1986, **51**, 3535 (*cmr, ester*)Harper, D.E. *et al*, *J. Antibiot.*, 1992, **45**, 1827 (U 77863)**N-Methylsecoglaucine****M-10069**

Updated Entry replacing M-01343

3,4,6,7-Tetramethoxy-N,N-dimethyl-1-phenanthreneethanamine, 9CI. 1-(2-Dimethylaminoethyl)-3,4,6,7-tetramethoxyphenanthrene. Glaucine methyl methine [66396-10-9]

C₂₂H₂₇NO₄ M 369.460Alkaloid from *Platycapnos spicata* and *Sarcocapnos enneaphylla* (Fumariaceae). Amorph.*B,HCl*: Cryst. (MeOH/Et₂O). Mp 249-251°.*B,MeI*: [10313-69-6].

Mp 278° (273-274°).

N-De-Me: [66190-61-2]. *Coryphenanthrine. 3,4,6,7-**Tetramethoxy-N-methyl-1-phenanthreneethanamine, 9CI. 1-(2-Methylaminoethyl)-3,4,6,7-tetramethoxyphenanthrene*C₂₁H₂₅NO₄ M 355.433Alkaloid from the aerial parts of *Corydalis yanhusuo* (Fumariaceae).**O¹-De-Me: Thaliporphinemethine**C₂₁H₂₅NO₄ M 355.433Alkaloid from *Illigera pentaphylla* (Hernandiaceae). Amorph.**O⁹,N-Di-de-Me, N-Ac: 1-(N-Acetyl-N-methylamino)ethyl-7-hydroxy-3,4,6-trimethoxyphenanthrene**C₂₂H₂₅NO₅ M 383.443Alkaloid from heartwood of *Aromadendron elegans* (Magnoliaceae). Needles (EtOAc/hexane). Mp 210-211°.Bremner, J.B. *et al*, *Aust. J. Chem.*, 1978, **31**, 313 (*synth*)Ross, S.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1985, **48**, 835*(Thaliporphinemethine)*Hu, T. *et al*, *Nanjing Yaoxueyuan Xuebao*, 1985, **16**, 7; *CA*, **103**, 175443u.Blanco, O. *et al*, *Heterocycles*, 1990, **31**, 1077 (*isol, struct, synth*)Tojo, E. *et al*, *Phytochemistry*, 1991, **30**, 1005 (*isol*)Goh, S.H. *et al*, *Phytochemistry*, 1992, **31**, 2495 (*deriv*)Blanco, O.M. *et al*, *Phytochemistry*, 1993, **32**, 1055 (*isol, pmr, cmr, ms*)**4-Methylstigmasta-8,24(28)-dien-3-ol****M-10070**C₃₀H₅₀O M 426.724

(3β,4α,5α,24Z)-form [71418-13-8]

Constit. of *Phaseolus vulgaris* and *Rubus fruticosus*. Mp 130-132° (as acetate).

[71418-14-9]

Schmitt, P. *et al*, *Phytochemistry*, 1987, **26**, 2709 (*isol*)

Akihisa, T. *et al*, *Phytochemistry*, 1989, **28**, 1219 (*isol*)

S-[[[(Methylsulfinyl)methyl]thio]methoxy]methyl] thiomethanesulfonate, 8CI M-10071

SE-3

[17135-23-8]



C₅H₁₂O₄S₄ M 264.411

Tentative struct. *Isol.* from the mushroom *Lentinus edodes*.

Precursor to 1,2,3,5,6-Pentathiepane, P-00766. Needles (Me₂CO). Mp 80-82°.

Morita, K. *et al*, *Chem. Pharm. Bull.*, 1967, **15**, 988.

23-Methyl-5,9-tetracosadienoic acid M-10072

(H₃C)₂CH(CH₂)₁₂CH=CHCH₂CH₂CH=CH(CH₂)₃COOH

C₂₅H₄₆O₂ M 378.637

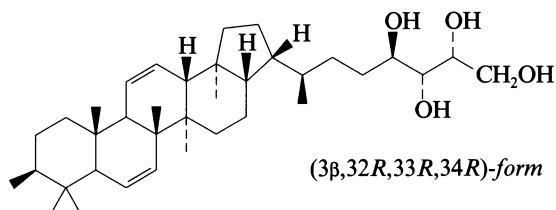
(Z,Z)-form [140245-76-7]

Constit. of the sponge *Ircinia* spp.

Carballeira, N.M. *et al*, *Comp. Biochem. Physiol., B: Comp. Biochem.*, 1991, **100**, 489 (*isol*)

3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)-6,11-hopadiene M-10073

3-Methyl-6,11-bacteriohopadiene



C₃₆H₆₀O₄ M 556.868

(3β,32R,33R,34R)-form [144179-10-2]

Constit. of *Acetobacter aceti*.

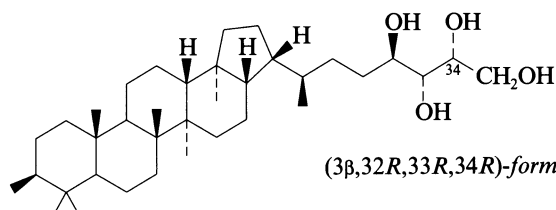
(3β,32R,33R,34S)-form [144154-71-2]

Constit. of *A. aceti* and *A. pasteurianus*.

Peiseler, B. *et al*, *J. Chem. Res., Synop.*, 1992, 298; *J. Chem. Res., Miniprint*, 1992, 2353 (*isol, pmr, cmr*)

3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)hopane M-10074

3-Methyl-32,33,34,35-bacteriohopanetetrol



C₃₆H₆₄O₄ M 560.899

(3β,32R,33R,34R)-form [144179-05-5]

Constit. of *Acetobacter aceti* and *A. pasteurianus*.

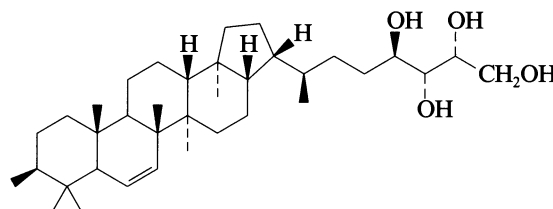
(3β,32R,33R,34S)-form [144179-04-4]

Constit. of *A. aceti* and *A. pasteurianus*.

Peiseler, B. *et al*, *J. Chem. Res., Synop.*, 1992, 298; *J. Chem. Res., Miniprint*, 1992, 2353 (*isol, pmr, cmr*)

3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)-6-hopene M-10075

3-Methyl-6-bacteriohopene-32,33,34,35-tetrol



C₃₆H₆₂O₄ M 558.883

(3β,32R,33R,34S)-form [144179-07-7]

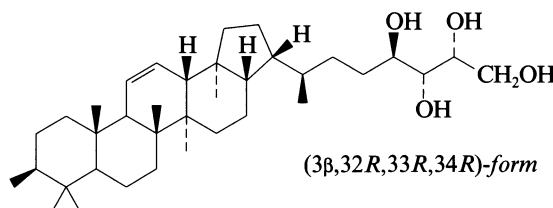
Constit. of *Acetobacter aceti* and *A. pasteurianus*. Cryst.

(CH₂Cl₂/MeOH) (as tetra-Ac). Mp 143-144° (tetra-Ac).

Peiseler, B. *et al*, *J. Chem. Res., Synop.*, 1992, 298; *J. Chem. Res., Miniprint*, 1992, 2353 (*isol, pmr, cmr*)

3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)-11-hopene M-10076

3-Methyl-11-bacteriohopene-32,33,34,35-tetrol



C₃₆H₆₂O₄ M 558.883

(3β,32R,33R,34R)-form [144179-08-8]

Constit. of *Acetobacter aceti* and *A. pasteurianus*.

(3β,32R,33R,34S)-form [144154-70-1]

Constit. of *A. aceti*.

Peiseler, B. *et al*, *J. Chem. Res., Synop.*, 1992, 298; *J. Chem. Res., Miniprint*, 1992, 2353 (*isol, pmr, cmr*)

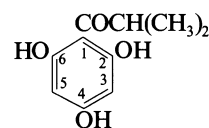
2-Methyl-1-(2,4,6-trihydroxyphenyl)-1-propanone, 9CI M-10077

Updated Entry replacing M-01444

2',4',6'-Trihydroxy-2-methylpropiophenone, 8CI. 2,4,6-

Trihydroxyisobutyrophenone. Phlorisobutyrophenone

[35458-21-0]



C₁₀H₁₂O₄ M 196.202

Constit. of *Helichrysum* spp. Pale yellow cryst. Mp 197°

(177-178°). Lower Mp's including hydrate formation have been reported.

2-O-β-Glucopyranoside: [17004-75-0].

C₁₆H₂₂O₉ M 358.344

Constit. of hops (*Humulus lupulus*) and from

Helichrysum sp. Mp 118°. [α]_D -59.8°.

2-Me ether: [102092-19-3]. 1-(2,4-Dihydroxy-6-methoxyphenyl)-2-methyl-1-propanone, 9CI. 2',4'-Dihydroxy-6'-methoxy-2-methylpropiophenone. **Robustaol B**

$C_{11}H_{14}O_4$ M 210.229

Isol. from *Eucalyptus robusta* and *Kunzea* spp. Oil.

4-Me ether: [42541-62-8]. 2',6'-Dihydroxy-4'-methoxy-2-methylpropiophenone

$C_{11}H_{14}O_4$ M 210.229

Isol. from *K.* spp. Oil.

Tri-Me ether: [480-25-1]. 2-Methyl-1-(2,4,6-trimethoxyphenyl)-1-propanone. 2,4,6-Trimethoxyisobutyrophenone. **Conglomerone**

$C_{13}H_{18}O_4$ M 238.283

Constit. of oil of *E. conglomerata* and from *Acreugenia pungens*. Mp 62-62.5°.

Riedl, W., *Justus Liebigs Ann. Chem.*, 1954, **585**, 38 (synth)

Lounasmaa, M. et al, *Acta Chem. Scand., Ser. B*, 1974, **28**, 1209.

Amer, M.I. et al, *J. Chem. Soc., Perkin Trans. 1*, 1983, 1075

(synth)

Bohlmann, F. et al, *Planta Med.*, 1984, **50**, 174 (isol)

Mizobuchi, S. et al, *Agric. Biol. Chem.*, 1985, **49**, 719 (synth)

Qin, G. et al, *Huaxue Xuebao*, 1986, **44**, 151; *CA*, **104**, 203867 (Robustaol B)

Jakupovic, J. et al, *Phytochemistry*, 1986, **25**, 1133 (isol)

Crombie, L. et al, *J. Chem. Soc., Perkin Trans. 1*, 1987, 317

(synth)

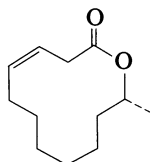
Bloor, S.J., *J. Nat. Prod. (Lloydia)*, 1992, **55**, 43 (derivs)

11-Methyl-3-undecenolide

M-10078

Updated Entry replacing M-01462

12-Methylxacyclododec-4-en-2-one, 9CI



(*R,Z*)-form

$C_{12}H_{20}O_2$ M 196.289

(*R,Z*)-form [87583-38-8] **Cucujolide II**

Aggregation pheromone of the grain beetle. Attractant for *Oryzaephilus mercator*.

(*S,Z*)-form [86578-99-6] **Ferrulactone II**

Pheromone of the rusty grain beetle *Cryptolestes ferrugineus*. Aggregating pheromone for *O. mercator*. $[\alpha]_D^{22.5} + 70.5^\circ$ (c, 0.96 in $CHCl_3$).

(±)-(*Z*)-form [87583-37-7]

Liq. Bp_{0.1} 60-70°. Contains ca. 5% of the *E*-isomer.

[86631-33-6, 87583-37-7, 97372-89-9, 126415-33-6, 126415-34-7, 126841-00-7, 126841-01-8, 127888-78-2]

Oehlschlager, A.C. et al, *J. Org. Chem.*, 1983, **48**, 5009 (synth)

U.S. Pat., 4 560 551, (1985); *CA*, **104**, 125076b (synth)

Pierce, A.M. et al, *Environ. Entomol.*, 1989, **18**, 747; *CA*, **112**, 195479z (struct)

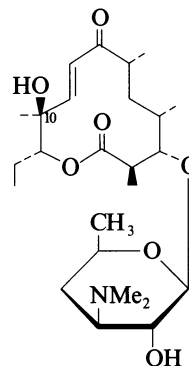
Keinan, E. et al, *Tetrahedron*, 1991, **47**, 4631 (synth)

Methymycin, 8CI

M-10079

Updated Entry replacing M-01469

[497-72-3]



$C_{25}H_{43}NO_7$ M 469.617

Macrolide antibiotic. Prod. by a *Streptomyces* sp. Active against gram-positive organisms. Prisms or needles (EtOH). Mp 195-197°. $[\alpha]_D^{25} + 74^\circ$ (c, 1.1 in $CHCl_3$), $[\alpha]_D + 61^\circ$ (c, 0.7 in MeOH).

Aglycone: [534-32-7]. 12-Ethyl-4,11-dihydroxy-3,5,7,11-tetramethylxacyclododec-9-ene-2,8-dione, 9CI. **Methynolide**

$C_{17}H_{28}O_5$ M 312.405

Isol. from *S. venezuelae*. Mp 168-169°. $[\alpha]_D + 67^\circ$ (MeOH).

10-Deoxy: [36826-66-1]. **10-Deoxymethymycin**. YC 17. Antibiotic YC 17

$C_{25}H_{43}NO_6$ M 453.618

From *S. venezuelae*. Active against gram-positive and some gram-negative bacteria. Cryst. Mp 68-70°. $[\alpha]_D^{27} + 84^\circ$ (c, 1 in $CHCl_3$).

Aglycone, 10-deoxy: **10-Deoxymethynolide**

$C_{17}H_{28}O_4$ M 296.406

Prod. by *S. venezuelae*. $[\alpha]_D + 67.75^\circ$ ($CHCl_3$).

Djerassi, C. et al, *J. Am. Chem. Soc.*, 1956, **78**, 2907 (isol)

Celmer, W.D. et al, *J. Am. Chem. Soc.*, 1965, **87**, 1799, 1801

(struct, nmr, stereochem)

Manwaring, D.G. et al, *Tetrahedron Lett.*, 1970, 1029 (pmr, abs config)

Kinumaki, A. et al, *J. Chem. Soc., Chem. Commun.*, 1972, 744 (deriv)

Masamune, S. et al, *J. Am. Chem. Soc.*, 1975, **97**, 3512, 3513 (synth)

Grieco, P.A. et al, *J. Am. Chem. Soc.*, 1979, **101**, 4749 (synth)

Vedejs, E. et al, *J. Org. Chem.*, 1979, **44**, 2947 (synth)

Ireland, R.E. et al, *J. Org. Chem.*, 1983, **48**, 1312 (synth)

Paterson, I. et al, *Tetrahedron*, 1985, **41**, 3569 (synth, rev)

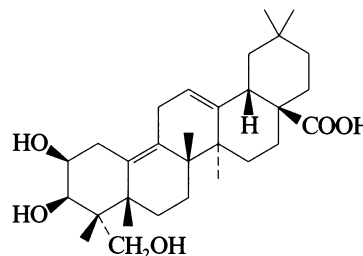
Vedejs, E. et al, *J. Am. Chem. Soc.*, 1989, **111**, 8421, 8430 (synth)

Ditrich, K. et al, *Justus Liebigs Ann. Chem.*, 1990, 789 (synth, aglycone)

Lambalot, R.H. et al, *J. Antibiot.*, 1992, **45**, 1981 (10-Deoxymethynolide)

Mimusopic acid

M-10080



$C_{30}H_{46}O_5$ M 486.690

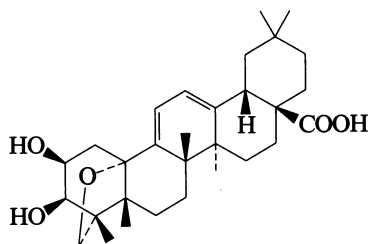
Constit. of *Mimusops elengi*. Cryst. (MeOH). Mp 292-294°.

$[\alpha]_D^{25} + 48.57^\circ$ (c, 0.21 in Py).

Sen, S. *et al*, *Tetrahedron*, 1993, **49**, 9031 (*isol*, *pmr*, *cmr*)

Mimusopsic acid

M-10081



$C_{30}H_{44}O_5$ M 484.675

Constit. of *Mimusops elengi*. Cryst. (MeOH). Mp 234-236°.

$[\alpha]_D^{25} + 20^\circ$ (c, 0.12 in MeOH).

Sen, S. *et al*, *Tetrahedron*, 1993, **49**, 9031 (*isol*, *pmr*, *cmr*)

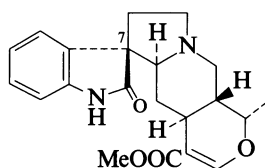
Mitraphylline

M-10082

Updated Entry replacing M-01594

Ajmalicine oxindole B. Rubradinine

[509-80-8]



Absolute configuration

$C_{21}H_{24}N_2O_4$ M 368.432

For other stereoisomers see Uncarine, U-10005. Alkaloid from *Mitragyna hirsuta*, some other *M. spp.* and some *Uncaria spp.* (Naucleaceae). Hypotensive agent, general depressant. Mp 265-266°. $[\alpha]_D^{25} - 7^\circ$ (CHCl₃), $[\alpha]_D^{25} - 10^\circ$ (EtOH), $[\alpha]_D^{25} + 11^\circ$ (Py).

B, HClO₄: Mp 240°.

Picrate: Mp 207-209°.

N-Oxide: Mitraphylline N-oxide

$C_{21}H_{24}N_2O_5$ M 384.431

Alkaloid from *U. orientalis* and *U. longiflora* (Naucleaceae).

7-Epimer: [4963-01-3]. *Isomitraphylline. Ajmalicine oxindole A*

$C_{21}H_{24}N_2O_4$ M 368.432

Alkaloid from *M.* and *U. spp.* (Naucleaceae). Amorph. $[\alpha]_D^{25} + 18^\circ$ (CHCl₃). *pK_a* 4.6.

7-Epimer, picrate: Yellow prisms (MeOH). Mp 223° dec.

7-Epimer, N-oxide: Isomitraphylline N-oxide

$C_{21}H_{24}N_2O_5$ M 384.431

Alkaloid from *U. longiflora* and *U. orientalis* (Naucleaceae). Identified by TLC only.

7-Epimer, 10,11-Dimethoxy: [53796-85-3]. *10,11-Dimethoxyisomitraphylline*

$C_{23}H_{28}N_2O_6$ M 428.484

Alkaloid from the aerial parts of *Cabucala madagascariensis* var. *amygdalifolia* and the leaves of *C. fasciculata* (Apocynaceae). Mp 142°. $[\alpha]_D^{25} + 15^\circ$.

Stereoisomer (1): [19775-85-0]. *Gambirdine*

$C_{21}H_{24}N_2O_4$ M 368.432

Alkaloid from *U. gambir* (Naucleaceae). Mp 199-201°. $[\alpha]_D^{25} + 84.8^\circ$ (c, 0.02 in CHCl₃). Stereochem. unknown.

Stereoisomer (2): [19775-86-1]. *Isogambirdine*

$C_{21}H_{24}N_2O_4$ M 368.432

Alkaloid from *U. gambir* (Naucleaceae). Oil. Mp 179-181° dec. (as hydrochloride). $[\alpha]_D^{25} + 115.5^\circ$ (c, 0.02 in CHCl₃). Stereochem. unknown.

Parent acid: Mitraphyllinic acid

$C_{20}H_{22}N_2O_4$ M 354.405

Alkaloid from stems of *U. sinensis* (Naucleaceae). Mp 234-236° dec. $[\alpha]_D^{25} - 32.8^\circ$ (c, 0.07 in MeOH).

Seaton, J.C. *et al*, *Can. J. Chem.*, 1958, **36**, 1031 (*isol*, *uv*, *ir*)

Finch, N. *et al*, *J. Am. Chem. Soc.*, 1962, **84**, 3871 (*struct*,

Isomitraphylline)

Gilbert, B. *et al*, *J. Am. Chem. Soc.*, 1963, **85**, 1523 (*ms*)

Pousset, J.-L. *et al*, *Bull. Soc. Chim. Fr.*, 1966, 2766 (*pmr*, *config*)

Johns, S.R. *et al*, *Tetrahedron Lett.*, 1966, 4883 (*pmr*, *config*)

Chan, K.C., *Tetrahedron Lett.*, 1968, 3403 (*Gambirdine*,

Isogambirdine)

Kan-Fan, C. *et al*, *Phytochemistry*, 1972, **11**, 435

(*Dimethoxyisomitraphylline*)

Phillipson, J.D. *et al*, *Phytochemistry*, 1973, **12**, 2791; 1975, **14**,

1855 (*oxides*)

Phillipson, J.D. *et al*, *J. Chromatogr.*, 1975, **105**, 163 (*tlc*, *glc*, *ms*)

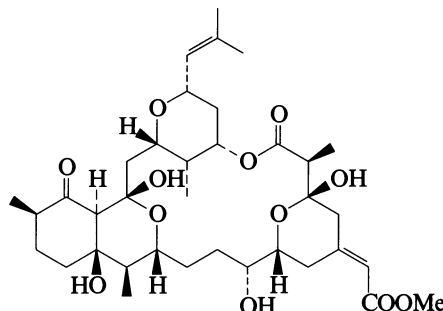
Ban, Y. *et al*, *Chem. Pharm. Bull.*, 1976, **24**, 736 (*synth*)

Liu, H.-M. *et al*, *Phytochemistry*, 1993, **33**, 707 (*Mitraphyllinic acid*)

Miyakolide

M-10083

[143346-97-8]



$C_{36}H_{54}O_{12}$ M 678.815

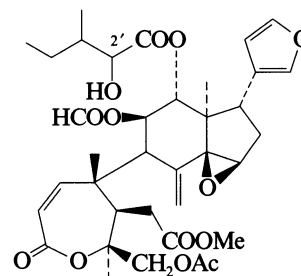
Constit. of a *Polyfibrospongia* sponge. Cryst.

(CH₂Cl₂/MeOH). Mp 197-199°. $[\alpha]_D^{25} - 24^\circ$ (c, 1.05 in CHCl₃).

Higa, T. *et al*, *J. Am. Chem. Soc.*, 1992, **114**, 7587 (*isol*, *pmr*, *cmr*, *cryst struct*)

Mombasol

M-10084



$C_{36}H_{46}O_{13}$ M 686.752

Constit. of *Turraea mombasana*. Cryst. Mp 116-118°.

2'-Ketone: Mombasone

$C_{36}H_{44}O_{13}$ M 684.736

Constit. of *T. mombasana*. Cryst. Mp 112-114°.

Adul, G.O. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1414 (*isol*, *pmr*, *cmr*)

Monellin

M-10085

[9062-83-3]

Protein consisting of two non-covalently associated polypeptide chains. The A-chain contains 44 amino acid residues and the B-chain of 50 residues. Their structures have been determined. Isol. from the fruit of *Dioscoreophyllum cumminsii*. Intensely sweet compd.

[130453-08-6, 131571-28-3]

Wlodawer, A. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1975, **72**, 398 (*cryst struct*)

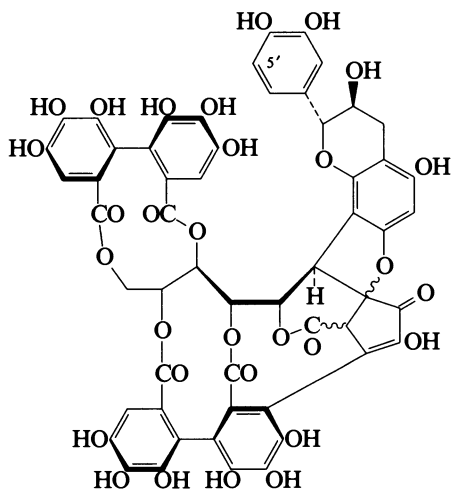
Kohmura, M. *et al*, *Agric. Biol. Chem.*, 1990, **54**, 1521, 2219 (*synth, struct, bibl*)

Mongolicain A

M-10086

Updated Entry replacing M-01650

[115518-27-9]



$C_{55}H_{36}O_{30}$ M 1176.871

A major tannin of *Quercus* sp. and *Castanopsis* sp. Pale brown amorph. powder + 3H₂O. $[\alpha]_D^{18} - 148.4^\circ$ (c, 0.86 in MeOH).

5'-Hydroxy: [145826-26-2]. **Psidin A**

$C_{55}H_{36}O_{31}$ M 1192.871

Constit. of the bark of *Psidium guajava*. Pale brown powder + 5H₂O. $[\alpha]_D^{26} - 146.6^\circ$ (c, 1 in MeOH).

Nonaka, G.-I. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 857; 1990, **38**, 2151 (*struct, cd, pmr, cmr, abs config*)

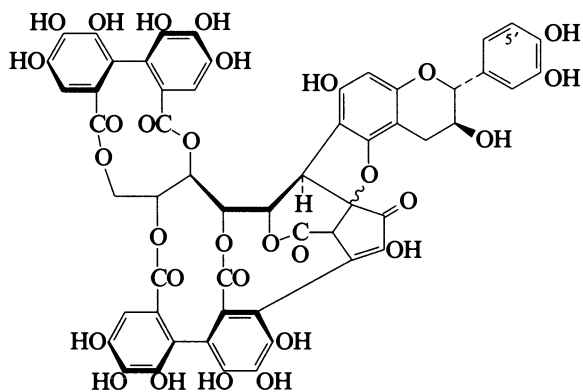
Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2092 (*Psidin A*)

Mongolicain B

M-10087

Updated Entry replacing M-01651

[115518-28-0]



$C_{55}H_{36}O_{30}$ M 1176.871

A major tannin of *Quercus* sp. and *Castanopsis* sp. Pale brown amorph. powder + 5H₂O. $[\alpha]_D^{18} - 64.7^\circ$ (c, 0.9 in MeOH).

5'-Hydroxy: [145826-27-3]. **Psidin B**

$C_{55}H_{36}O_{31}$ M 1192.871

Constit. of the bark of *Psidium guajava*. Pale brown powder + 6H₂O. $[\alpha]_D^{21} - 27.2^\circ$ (c, 1 in MeOH).

Nonaka, G.-I. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 857; 1990, **38**, 2151 (*struct, cd, pmr, cmr, abs config*)

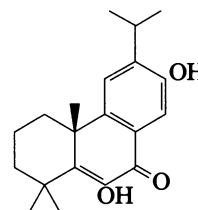
Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2092 (*Psidin B*)

Montbretol

M-10088

Updated Entry replacing D-01472

[140923-35-9]



$C_{20}H_{26}O_3$ M 314.424

Formerly thought to be 6,12-Dihydroxy-5,8,11,13-abietatetraen-7-one. Constit. of *Salvia montbretii* and *Juniperus rigida*. Yellow amorph. powder.

12-Me ether: [140670-85-5]. **Montbretyl 12-methyl ether**

$C_{21}H_{28}O_3$ M 328.450

Constit. of *S. montbretii*. Yellow amorph. powder.

Formerly thought to be 6-Hydroxy-12-methoxy-5,8,11,13-abietatetraen-7-one.

[34327-29-2]

Yanagawa, T. *et al*, *CA*, 1971, **75**, 148545a.

Ulubelen, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 441 (*isol, pmr, cmr*)

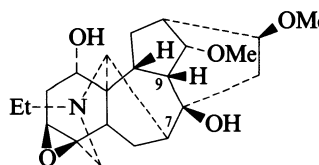
Burnell, R.H., *J. Nat. Prod. (Lloydia)*, 1993, **56**, 627 (*struct*)

Monticamine

M-10089

Updated Entry replacing M-01679

[81047-05-4]



$C_{22}H_{33}NO_5$ M 391.506

Alkaloid from *Aconitum monticola* (Ranunculaceae). Cryst. (Et₂O/Me₂CO). Mp 163-164°.

7-Hydroxy: [81037-22-1]. **Monticoline**

$C_{22}H_{33}NO_6$ M 407.506

Alkaloid from *A. monticola* and from the aerial parts of budding *A. karakolicum* (Ranunculaceae). Cryst. (Me₂CO). Mp 166-167°.

9β-Hydroxy: [41645-62-9]. **Excelsine†**

$C_{22}H_{33}NO_6$ M 407.506

Alkaloid from the roots of *A. excelsum* (Ranunculaceae). Mp 103-105°.

9β-Hydroxy, O⁸-Ac: **8-Acetylexcelsine**

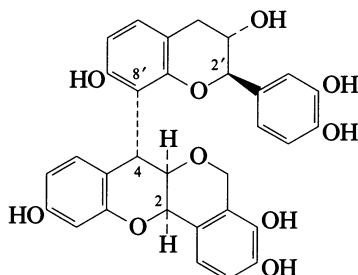
$C_{24}H_{35}NO_7$ M 449.543

Alkaloid from epigeal parts of *A. kirinense* (Ranunculaceae). Amorph.

- Nasirov, S.M. *et al*, *Khim. Prir. Soedin.*, 1976, **12**, 206; *Chem. Nat. Compd. (Engl. Transl.)*, 184 (*cryst struct, Excelsine*)
 Ametova, E.F. *et al*, *Khim. Prir. Soedin.*, 1981, 446; *Chem. Nat. Compd. (Engl. Transl.)*, 345 (*Monticamine, Monticoline*)
 Nishanov, A.A. *et al*, *Khim. Prir. Soedin.*, 1991, 258; *Chem. Nat. Compd. (Engl. Transl.)*, 222 (*8-Acetylexcelsine*)

Mopanane(4→8)-3,3',4,7-tetrahydroxyflavan

M-10090



$C_{31}H_{26}O_{10}$ M 558.540
(2R,2'R,3R,3'S,4S)-form

Constit. of the heartwood of *Colophospermum mopane*.
 Incorrect stereochem. for natural isomer shown on diag.
 in paper.

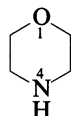
[127612-76-4]

Malan, J.C.S. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1990, 219 (*isol*)
Morpholine, 9CI

M-10091

Tetrahydro-1,4-oxazine. 1-Oxa-4-azacyclohexane

[110-91-8]



C_4H_9NO M 87.121

Solvent for resins, waxes and dyes. Synthetic reagent.

Anal. reagent for α , β -unsatd. compds. and for anhydrides. Hygroscopic oil with ammoniacal odour and caustic props. Misc. H_2O . d_4^{20} 0.999. Mp -4.9° . Bp 128.9° , Bp₆ 20° . pK_a 8.49 (25°). n_D^{20} 1.4545. Steam-volatile.

- Flammable, fl.p. $37^\circ(oc)/38^\circ(oc)$, autoignition temp. 310° . Corrosive and irritating to skin, eyes and mucous membranes. LD₅₀ (rbt, orl) 1050 mg/kg. LD₅₀ (rbt, skn) 500 mg/kg. Exp. nephrotoxic. QD6475000.

B,HCl: [10024-89-2].

Cryst. (HCl aq.). Mp $175-176^\circ$.

► QE5075000.

Picrate: Mp 225° .

N-Formyl: [4394-85-8]. *4-Morpholinecarboxaldehyde*

$C_5H_9NO_2$ M 115.132

Formylating reagent. Liq. Mp 17.5° . Bp 234° .

► QD9694000.

N-Ac: [1696-20-4].

$C_6H_{11}NO_2$ M 129.158

Sol. H_2O . d_{20}^{20} 1.12. Mp 14.5° . Bp₅₀ 152° , Bp₁₂ 118° . n_D^{20} 1.4827.

► Eye irritant. QD7000000.

N-Benzoyl: [1468-28-6].

$C_{11}H_{13}NO_2$ M 191.229

Cryst. (Et₂O). Mp $74-75^\circ$.

► QD8050000.

N-Me: [109-02-4]. *N-Methylmorpholine*

$C_5H_{11}NO$ M 101.148

Isol. from seeds of *Cassia occidentalis*. Base used in mixed anhydride peptide synth. which minimises racemisation. Bp $116-117^\circ$.

► Corrosive and irritating to skin, eyes and mucous membranes. LD₅₀ (rat, orl) 1970 mg/kg. QE5775000.

N-Me, N-Oxide: [7529-22-8].

$C_5H_{11}NO_2$ M 117.147

Catalyst for oxidn. of alcohols. Dipolar aprotic solvent used in the manuf. of Tencel from cellulose (Courtaulds). Monohydrate. Mp $73-76^\circ$.

N-Et: [100-74-3].

$C_6H_{13}NO$ M 115.175

Solvent. Dissolves $LiAlH_4$. Bp $138-139^\circ$.

► Skin and severe eye irritant. LD₅₀ (rat, orl) 1780 mg/kg. QE4025000.

N-Ph: [92-53-5].

$C_{10}H_{13}NO$ M 163.219

Dehydrohalogenating reagent. Mp 57° . Bp 270° .

► Toxic by skin absorption. Eye irritant. LD₅₀ (rat, orl) 930 mg/kg. LD₅₀ (rbt, skn) 360 mg/kg. QE8575000.

4-Methylbenzenesulfonyl: Mp 147° .

N-Nitroso: [59-89-2].

$C_4H_8N_2O_2$ M 116.119

► Possible human carcinogen. LD₅₀ (rat, orl) 282 mg/kg. Exp. carcinogen. QE7525000.

Jones, L.W. *et al*, *J. Am. Chem. Soc.*, 1925, **47**, 2966 (*synth*)

Medard, M.L., *Bull. Soc. Chim. Fr.*, 1936, 1343 (*deriv, synth*)

Hampton, B.L. *et al*, *J. Am. Chem. Soc.*, 1936, **58**, 2338 (*synth*)

Johnson, J.B. *et al*, *Anal. Chem.*, 1955, **27**, 1464 (*use*)

Critchfield, F.E. *et al*, *Anal. Chem.*, 1956, **28**, 76 (*use*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1967, **1**, 383, 705; **2**, 278; **7**, 244.

Potnis, S.P. *et al*, *Chem. Process. Eng. (Bombay)*, 1969, **3**, 27 (*rev*)

Kim, H.L. *et al*, *J. Agric. Food Chem.*, 1971, **19**, 198 (*isol*)

Bark, L.S. *et al*, *Analyst (London)*, 1972, **97**, 783 (*use*)

Takeuchi, Y., *J. Chem. Soc., Perkin Trans. 2*, 1974, 1927 (*cmr*)

Org. Synth., 1978, **58**, 43 (*deriv*)

Kirk-Othmer Encycl. Chem. Technol., 3rd Ed., Wiley, N.Y., 1978-1984, **2**, 295 (*rev*)

Olah, G.A. *et al*, *J. Org. Chem.*, 1984, **49**, 3856 (*deriv, use*)

Patty's Ind. Hyg. Toxicol. (3rd Rev. edn.), Vol. 2, Wiley, 1980, 2693.

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, NKZ000, PFS750, ENL000, MMA250, MRP750, ACR750, MRQ600.

Ethel Browning's Toxicity and Metabolism of Industrial Solvents, 2nd edn., (Snyder, R., ed.), Elsevier, Volume 2, 1990, 244.

Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworth, London and Boston, 1990, 1555.

Luxon, S.G., *Hazards in the Chemical Laboratory*, 5th edn., Royal Society of Chemistry, Cambridge, 1992, 879.

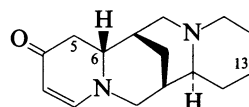
Multiflorine

M-10092

Updated Entry replacing M-01759

4-Oxo-2,3-didehydrosparteine. Base LV1

[529-80-6]



Absolute configuration

$C_{15}H_{22}N_2O$ M 246.352

Alkaloid from *Lupinus multiflorus*, *L. varius*, *L. albus*, *L. mutabilis* and *Cadia ellisiana* (Leguminosae). Mp $108-109^\circ$. $[\alpha]_D^{22} -317^\circ$ (c, 0.4 in MeOH).

B,HClO₄: Mp $160-162^\circ$ dec.

Picrolonate: Mp 204° .

16-N-Oxide: [137453-21-5]. **Multiflorine N-oxide**

$C_{15}H_{22}N_2O_2$ M 262.351

Constit. of *L. hirsutus*. Oil. $[\alpha]_D^{23}$ – 145.8° (c, 0.07 in EtOH).

5,6-Didehydro: [66216-62-4]. **5-Dehydromultiflorine**

$C_{15}H_{20}N_2O$ M 244.336

Constit. of *L. hirsutus* and *L. termis*. Oil. $[\alpha]_D^{25}$ – 94.4° (c, 0.015 in CH_2Cl_2).

13 α -Hydroxy: **13-Hydroxymultiflorine**. Alkaloid X_1

$C_{15}H_{22}N_2O_2$ M 262.351

Minor alkaloid from *L. albus* and *L. cosentinii* seeds (as esters) (Leguminosae). Highly hygroscopic gum. $[\alpha]_D^{25}$ – 335° (c, 1 in MeOH). Obt. from *L. cosentinii* as an ester mixt. (Alkaloid LC3) of which the benzoate was the only positively identified component.

5,6-Didehydro, 13 α -hydroxy: **Δ^5 -Dehydro-13-hydroxymultiflorine**. Alkaloid X_2

$C_{15}H_{20}N_2O_2$ M 260.335

Alkaloid from *L. albus* (Leguminosae). Highly hygroscopic, obt. only in small amt.

13 α -Tigloyloxy: [136396-56-0]. **13 α -Tigloyloxymultiflorine**

$C_{20}H_{28}N_2O_3$ M 344.453

Alkaloid from *L. hirsutus* (Leguminosae). Oil. $[\alpha]_D^{23}$ – 292° (c, 0.1 in EtOH).

13-Methoxy: **13-Methoxymultiflorine**

$C_{16}H_{24}N_2O_2$ M 276.378

Trace alkaloid in seeds and leaves of *L. albescens* (Leguminosae). Provisional identification.

Didehydro: **Dehydromultiflorine**

$C_{15}H_{20}N_2O$ M 244.336

Alkaloid present in seeds and leaves of *L. albescens* (Leguminosae). Provisional identification. Posn. of double bond unknown (ms spectrum differs significantly from that of 5-dehydromultiflorine above).

[74867-85-9, 74902-86-6]

Crow, W.D., *Aust. J. Chem.*, 1955, **8**, 136; 1959, **12**, 474 (*isol, uv, ir, struct, pmr*)

Comin, J. *et al*, *Aust. J. Chem.*, 1959, **12**, 468 (*isol, uv, ir, struct*)

Wiewiorowski, M. *et al*, *Bull. Acad. Pol. Sci., Ser. Sci. Chim.*, 1961, **9**, 715 (*isol, ir, struct, derivs*)

Goldberg, S.I. *et al*, *J. Org. Chem.*, 1976, **32**, 1832 (*cd, abs config*)

Beck, A.B. *et al*, *J. Nat. Prod. (Lloydia)*, 1979, **42**, 385 (*13-Hydroxymultiflorine*)

Pyzalska, D. *et al*, *Acta Crystallogr., Sect. B*, 1980, **36**, 1602, 1685 (*cryst struct, Dehydromultiflorine*)

Wink, M. *et al*, *Planta Med.*, 1981, **43**, 342 (*isol, ms*)

Hatzold, T. *et al*, *J. Agric. Food Chem.*, 1983, **31**, 934 (*isol*)

Wysocka, W. *et al*, *Croat. Chem. Acta*, 1989, **62**, 109 (*cd*)

Wyrzykiewicz, E. *et al*, *Org. Mass Spectrom.*, 1990, **25**, 453 (*ms*)

Takamatsu, S. *et al*, *Heterocycles*, 1991, **32**, 1167 (*N-oxide*)

Takamatsu, S. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 477 (*13-Tigloyloxymultiflorine*)

Planchuelo-Ravelo, A.M. *et al*, *Z. Naturforsch., C*, 1993, **48**, 414 (*13-Methoxymultiflorine, Dehydromultiflorine*)

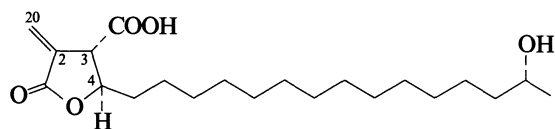
Murolic acid

M-10093

Updated Entry replacing M-01783

Tetrahydro-2-(14-hydroxypentadecyl)-4-methylene-5-oxo-3-furancarboxylic acid, 9CI

[70579-58-7]



Absolute configuration

$C_{21}H_{36}O_5$ M 368.512

Isol. from the lichen *Lecanora muralis*, also in *L. melanophthalma* and *L. rubina*. Platelets (MeOH). Mp 110-111°. $[\alpha]_D^{24}$ + 5.13° (c, 1.11 in MeOH).

2S,20-Dihydro: [70579-57-6]. **Neodihydromurolic acid**

$C_{21}H_{38}O_5$ M 370.528

Isol. from *L. muralis*, also in *L. melanophthalma* and *L. rubina*. Platelets (MeOH). Mp 122-123°. $[\alpha]_D^{24}$ + 17.14° (c, 1.59 in MeOH).

14'-Ketone: [70579-63-4]. **Muronic acid**

$C_{21}H_{34}O_5$ M 366.497

Isol. from *Neuropogon trachycarpus*. Cryst. (Me₂CO aq.). Mp 93-94°. $[\alpha]_D^{20}$ + 8.7° (c, 0.085 in $CHCl_3$).

14'-Ketone, 4-epimer: [101899-62-1]. **Alloptertusaric acid**

$C_{21}H_{34}O_5$ M 366.497

Isol. from *Pertusaria albescens*. Seedling growth inhibitor. Plates. Mp 76-78°. $[\alpha]_D^{24}$ – 95.5° (c, 1.525 in MeOH). Pertusaric acid appears to be unknown.

► Pertussive agent, nasal irritant.

2S,20-Dihydro, 14'-ketone, 3,4-diepimer: [101899-68-7].

Dihydropertusaric acid

$C_{21}H_{36}O_5$ M 368.512

Isol. from *P. albescens*. Small needles. Mp 105-107°. $[\alpha]_D^{24}$ – 74.9° (c, 2.15 in MeOH).

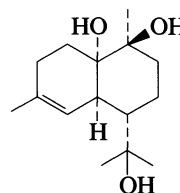
Huneck, S. *et al*, *J. Hattori Bot. Lab.*, 1979, **45**, 1 (*isol, pmr, cd, struct, abs config*)

Ghogomu, R.T. *et al*, *Phytochemistry*, 1982, **21**, 2355 (*Muronic acid*)

Huneck, S. *et al*, *Phytochemistry*, 1986, **25**, 453 (*Alloptertusaric acid, Dihydropertusaric acid*)

4-Murolene-1,10,11-triol

M-10094



$C_{15}H_{26}O_3$ M 254.369

(1 α ,10 β)-form [149203-85-0] **Eleganthol**

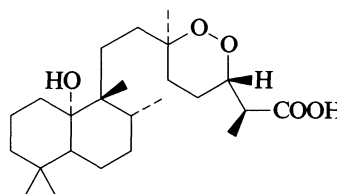
Constit. of *Clitocybe elegans*. Cryst. (MeOH). Mp 182-184°. $[\alpha]_D$ – 8.6° (c, 0.2 in $CHCl_3$).

Arnone, A. *et al*, *Phytochemistry*, 1993, **32**, 1493 (*isol, pmr, cmr, cryst struct*)

Mycaperoxide A

M-10095

[149260-79-7]



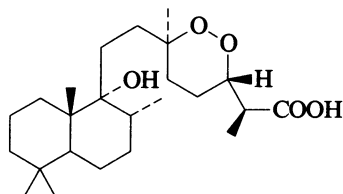
$C_{24}H_{42}O_5$ M 410.593

Constit. of a *Mycale* sp. Cryst. (Me₂CO). Mp 158-159.5°. $[\alpha]_D^{30}$ – 41.0° (c, 1.28 in Me₂CO).

Tanaka, J. *et al*, *J. Org. Chem.*, 1993, **58**, 2999 (*isol, pmr, cmr, cryst struct*)

Mycaperoxide B

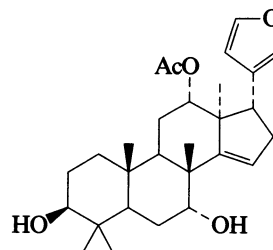
[149260-80-0]

 $C_{24}H_{42}O_5$ M 410.593Constit. of a *Mycale* sp. Gum. $[\alpha]_D^{30} -41.3^\circ$ (c, 1.27 in Me_2CO).Tanaka, J. *et al*, *J. Org. Chem.*, 1993, **58**, 2999 (*isol, pmr, cmr*)

M-10096

Mzikonol

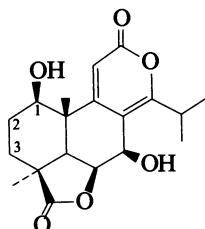
[139026-32-7]

 $C_{28}H_{40}O_5$ M 456.621Constit. of *Turraea robusta*. Cryst. Mp 195-197°.3-Ketone: [117278-48-5]. **Mzikonone** $C_{28}H_{38}O_5$ M 454.605Constit. of *T. robusta*. Cryst. Mp 99-101°.Bentley, M.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **31**, 84.

N

Nagilactone A

Updated Entry replacing N-00007
[19891-50-0]



$C_{19}H_{24}O_6$ M 348.395

Constit. of *Podocarpus nagi*. Plant growth regulator, larvicide. Cryst. Mp 305° subl. $[\alpha]_D + 88.8^\circ$.

β -Hydroxy: [65648-12-6]. **3 β -Hydroxynagilactone A**

$C_{19}H_{24}O_7$ M 364.394

From *P. nagi*. Mp 247-249°.

2 β -Hydroxy: [19891-51-1]. **Nagilactone B**

$C_{19}H_{24}O_7$ M 364.394

Constit. of *P. nagi*. Plant growth regulator. Cryst. Mp 258-261° dec. $[\alpha]_D + 92.3^\circ$.

1-Deoxy, 2 α -hydroxy: **1-Deoxy-2 α -hydroxynagilactone A**

$C_{19}H_{24}O_6$ M 348.395

Constit. of *P. nagi*. Mp 243-245° dec.

1-Deoxy, 3 β -hydroxy: [34294-04-7]. **Sellowin C**

$C_{19}H_{24}O_6$ M 348.395

Isol. from *P. sellowii*. Cryst. Mp 310° dec.

1-Deoxy, 2 β ,3 β -dihydroxy: [78095-11-1]. **Urbalactone**

$C_{19}H_{24}O_7$ M 364.394

Isol. from *P. urbanii*. Cryst. (MeOH). Mp 270-272° dec. $[\alpha]_D^{25} + 90^\circ$ (Py).

1-Deoxy: **1-Deoxynagilactone A**

$C_{19}H_{24}O_5$ M 332.396

Constit. of *P. nagi*. Cryst. Mp 274-276°.

1-Deoxy, 2,3-didehydro: **1-Deoxy-2,3-dehydronagilactone A**

$C_{19}H_{22}O_5$ M 330.380

Constit. of *P. nagi*. Cryst. Mp 290-293° dec.

2,3-Didehydro: **2,3-Didehydronagilactone A**

$C_{19}H_{22}O_6$ M 346.379

Constit. of *P. nagi*. Cryst. Mp 295-300° dec.

Hayashi, Y. *et al*, *Tetrahedron Lett.*, 1968, 2071; 1977, 2953 (*isol, struct, derivs*)

Hayashi, Y. *et al*, *Chem. Lett.*, 1972, 349 (*stereochem*)

Brown, K.S. *et al*, *Tetrahedron Lett.*, 1974, 675 (*Sellowin C*)

Hirotsu, K. *et al*, *Bull. Chem. Soc. Jpn.*, 1975, **48**, 1157 (*cryst struct*)

Dasgupta, B. *et al*, *Phytochemistry*, 1981, **20**, 153 (*Urbalactone*)

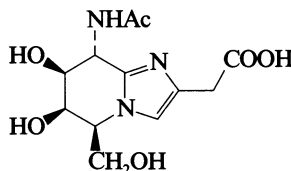
Ying, B.-P. *et al*, *Phytochemistry*, 1993, **34**, 1107 (*derivs*)

N-10001

Nagstatin

Updated Entry replacing N-00013

8-(Acetylamino)-5,6,7,8-tetrahydro-6,7-dihydroxy-5-(hydroxymethyl)imidazo[1,2-a]pyridine-2-acetic acid
[126844-81-3]



Relative configuration

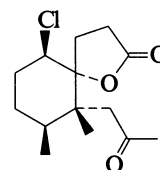
$C_{12}H_{17}N_3O_6$ M 299.283

Prod. by *Streptomyces amakusaensis*. Inhibitor of *N*-acetyl- β -D-glucosaminidase. Powder. Mp 190-195°. $[\alpha]_D^{25} + 46.2^\circ$ (c, 0.5 in H_2O).

Aoyagi, T. *et al*, *J. Antibiot.*, 1992, **45**, 1404, 1557 (*isol, pmr, cmr, struct, props*)

Napalilactone

[145458-38-4]



$C_{14}H_{21}ClO_3$ M 272.771

Constit. of *Lemnalia africana*. Oil. $[\alpha]_D + 7.2^\circ$ (c, 0.63 in MeOH).

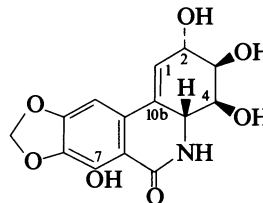
Carney, J.R. *et al*, *Tetrahedron Lett.*, 1992, **33**, 7115 (*isol, pmr, cmr*)

N-10003

Narciclasine

Updated Entry replacing N-00070

Lycoricidinol
[29477-83-6]



Absolute configuration

$C_{14}H_{13}NO_7$ M 307.259

Alkaloid from *Narcissus incomparabilis* and all *N. spp.* examined, also present in many other Amaryllidaceae spp. Antimitotic agent. Strong tumour inhibitor. Inhibitor of protein synthesis. Most active antitumour agent of the Amaryllidaceae alkaloids. Light-yellowish needles with yellow-green fluor. Mp 232-234° dec. $[\alpha]_D + 145^\circ$ (c, 1.5 in EtOH). Easily dehydrates in acid.

► LD₅₀ (mus, scu) 5 mg/kg. JI5000000.

2-O- β -D-Glucopyranoside: [98900-01-7]. **Kalbreclasine**

$C_{20}H_{23}NO_{12}$ M 469.401

Alkaloid from roots of *Haemanthus kalbreyeri* (Amaryllidaceae). Hygroscopic solvated straw-coloured solid. $[\alpha]_D^{22} + 78.14^\circ$ (c, 0.7 in MeOH).

2-O- β -D-Glucopyranoside, hexa-O-Ac: Microcryst. (Me₂CO). Mp 198-201°.

4-O- β -D-Glucopyranoside: [141544-37-8]. **Narciclasine 4-O-glucoside**

C₂₀H₂₃NO₁₂ M 469.401

Alkaloid from the bulbs of *Pancreatium maritimum* (Amaryllidaceae). Needles (MeOH). Mp 210-211°.

1,10b α -Dihydro: [40042-05-5]. **trans-Dihydronarciclasine**

C₁₄H₁₅NO₇ M 309.275

Alkaloid from *Zephyranthes candida* (Amaryllidaceae). Cytotoxic. Cryst. (MeOH). Mp 290-291°. $[\alpha]_D^{20} + 4.7^\circ$ (c, 0.27 in THF). Data given is for synthetic compd.

1,10b β -Dihydro: [40042-04-4]. **cis-Dihydronarciclasine**

C₁₄H₁₅NO₇ M 309.275

Synthetic. Cryst. (MeOH). Mp 293-294°. $[\alpha]_D^{20} + 56^\circ$ (c, 0.18 in THF).

1,10b α -Dihydro, 7-deoxy: **7-Deoxy-trans-dihydronarciclasine**

C₁₄H₁₅NO₆ M 293.276

Alkaloid from bulbs of *Hymenocallis littoralis*, *H. caribaea*, *H. latifolia* and an unidentified *H. sp.* (Amaryllidaceae). Exhibits cytotoxicity. Also shows activity against a series of RNA viruses. Sharp needles. Mp 303-304° (320-322°, synthetic). $[\alpha]_D^{25} + 138^\circ$ (c, 0.96 in DMSO).

1,10b β -Dihydro, 7-deoxy: **7-Deoxy-cis-dihydronarciclasine**

C₁₄H₁₅NO₆ M 293.276

Synthetic. Shows activity against a series of RNA viruses. Amorph. powder (MeOH/Me₂CO). Mp > 300°.

Piozzi, F. *et al*, *Tetrahedron*, 1968, **24**, 1119 (*uv, ir, pmr, ms, struct*)

Piozzi, F. *et al*, *Phytochemistry*, 1969, **8**, 1745 (*isol*)

Fuganti, C. *et al*, *J. Chem. Soc., Chem. Commun.*, 1972, 239 (*biosynth*)

Immirzi, A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1972, 240 (*cryst struct*)

Mondon, A. *et al*, *Tetrahedron Lett.*, 1972, 2085 (*pmr, config*)

Mondon, A. *et al*, *Chem. Ber.*, 1975, **108**, 445.

Suffness, M. *et al*, *Alkaloids (N.Y.)*, 1985, **25**, 205 (*antitumour props*)

Ghosal, S. *et al*, *Phytochemistry*, 1985, **24**, 1825 (*Kalbreclasine*)

Pettit, G.R. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 176; 1993, **56**, 1682 (*Dihydronarciclasine, 7-Deoxydihydronarciclasine*)

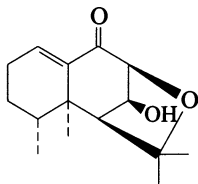
Abou-Donia, A.H. *et al*, *Phytochemistry*, 1991, **30**, 3445 (*4-Glucoside*)

Gabrielson, B. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1569 (*props, 7-Deoxydihydronarciclasine*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, LJC000.

Nardofuran

[42438-76-6]



C₁₅H₂₂O₃ M 250.337

Constit. of *Nardostachys chinensis*. Oil.

Friemann, J. *et al*, *Justus Liebigs Ann. Chem.*, 1981, 2057 (*synth*)

Hikino, H. *et al*, *Phytochemistry*, 1988, **27**, 3667 (*isol, cmr*)

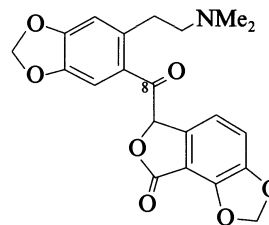
N-10005

Narlumidine

N-10006

Updated Entry replacing N-00089

6-[[[6-[2-(Dimethylamino)ethyl]-1,3-benzodioxol-5-yl]carbonyl]furo[3,4-e]-1,3-benzodioxol-8(6H)-one, 9CI
[73710-86-8]



C₂₁H₁₉NO₇ M 397.384

Alkaloid from *Fumaria indica* (Fumariaceae). Mp 248-250°.

8-Alcohol: **Narlumicine**

C₂₁H₂₁NO₇ M 399.399

Alkaloid from stems of *F. indica* (Fumariaceae). Also obt. by NaBH₄ redn. of Narlumidine. Granules (MeOH). Mp 163-165°.

Seth, K.K. *et al*, *Chem. Ind. (London)*, 1979, 744 (*uv, ir, ms, pmr, struct*)

Tripathi, V.K. *et al*, *Phytochemistry*, 1992, **31**, 2188 (*Narlumicine*)

Natriuretic factor 26

N-10007

Natriuretic peptide 26

[114400-89-4]

H¹Asp-Ser-Gly-Cys-Phe-Gly-Arg-Arg-Leu-Asp-Arg-Ile-Gly-Ser-Leu-Ser-Gly-Leu-Gly-Cys-Asn-Val-Leu-Arg-Arg-²⁶Tyr-OH

Reduced form shown. Isol. from pig brain. Natriuretic agent.

N¹-(Serylprolyllylsylthreonylmethionylarginyl):

[119320-26-2]. *Natriuretic factor 32 (pig brain reduced)*.

Natriuretic peptide 32 (pig brain reduced)

Isol. from pig brain. Natriuretic agent.

Maekawa, K. *et al*, *Biochem. Biophys. Res. Commun.*, 1988, **157**, 410 (*factor 32*)

Minamino, N. *et al*, *Pept. Chem.*, 1988, **26**, 183 (*isol, struct*)

Kiso, Y. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 1192 (*synth*)

Inooka, H. *et al*, *Eur. J. Biochem.*, 1990, **193**, 127 (*synth, conformn*)

Craik, D. *et al*, *Eur. J. Biochem.*, 1991, **201**, 183 (*pmr, conformn*)

Natriuretic factor 45

N-10008

[123337-90-6]

H-Ser-Gln-Asp-Ser-Ala-Phe-Arg-Ile-Gln-Glu-Arg-Leu-Arg-Asn-Ser-Lys-Met-Ala-His-Ser-Ser-Ser-Cys-Phe-Gly-Gln-Lys-Ile-Asp-Arg-Ile-Gly-Ala-Val-Ser-Arg-Leu-Gly-Cys-Asp-Gly-Leu-Arg-Leu-Phe-OH

Isol. from rat brain and heart. Natriuretic agent.

Aburaya, M. *et al*, *Biochem. Biophys. Res. Commun.*, 1989, **163**, 226, 233 (*isol, struct*)

Kambayashi, Y. *et al*, *Pept. Chem.*, 1989, **27**, 245 (*isol, struct*)

Anguilla japonica Natriuretic factor

N-10009

[135493-52-6]

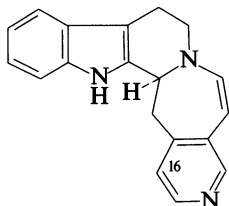
H-Lys-Ser-Phe-Asn-Ser-Cys-Phe-Gly-Thr-Arg-Met-Asp-Arg-Ile-Gly-Ser-Trp-Ser-Gly-Leu-Gly-Cys-Asn-Ser-Leu-Lys-Asn-Gly-Thr-Lys-Lys-Lys-Ile-Phe-Gly-Asn-OH

Isol. from the cardiac ventricles of *Anguilla japonica*.
Natriuretic agent.

Takei, Y. *et al*, *FEBS Lett.*, 1991, **282**, 317.

Naufoline**N-10010**

Updated Entry replacing N-00117
[59785-75-0]



$C_{19}H_{17}N_3$ M 287.363

Alkaloid from the root bark of *Nauclea latifolia*
(Naucleaceae). Cryst. (MeOH). Mp 252°.

16-Methoxycarbonyl: **16-Carbomethoxyaufoline**

$C_{21}H_{19}N_3O_2$ M 345.400

Alkaloid from leaves of *N. diderrichii* (Naucleaceae).

16-Methoxycarbonyl, 18,19-dihydro: **16-Carbomethoxy
18,19-dihydroaufoline**

$C_{21}H_{21}N_3O_2$ M 347.416

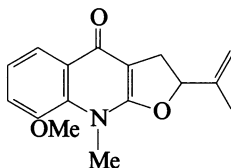
Alkaloid from leaves of *N. diderrichii* (Naucleaceae).

Hotellier, F. *et al*, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1976,
282, 595 (*ir*, *pmr*, *ms*, *struct*)

Richard, B. *et al*, *Bull. Soc. R. Sci. Liege*, 1992, **61**, 423; *CA*, **119**,
91770v (*derivs*)

Neocutifolin**N-10011**

[145237-09-8]



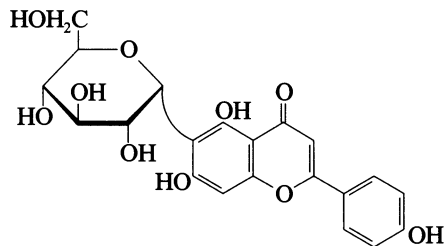
$C_{16}H_{17}NO_3$ M 271.315

Alkaloid from leaves of *Zanthoxylum acutifolium*
(Rutaceae). Viscous oil. $[\alpha]_D +124^\circ$ (c, 0.0004 in
 $CHCl_3$).

Arruda, M.S.P. *et al*, *Phytochemistry*, 1992, **31**, 3617 (*isol*, *uw*, *ir*,
pmr, *cmr*, *ms*, *struct*)

Neoavroside**N-10012**

6- α -D-Glucopyranosyl-5,7-dihydroxy-2-(4-hydroxyphenyl)-
4H-1-benzopyran-4-one, 9CI. 6- α -D-Glucopyranosylapigenin.
6- α -D-Glucopyranosyl-4',5',7-trihydroxyflavone
[29774-68-3]



$C_{21}H_{20}O_{10}$ M 432.383

Constit. of *Dianthus* spp. and *Gratiola officinalis*.

Isomer: [53152-14-0]. **Isoneoavroside**

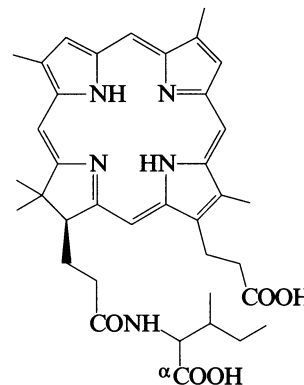
$C_{21}H_{20}O_{10}$ M 432.383

Constit. of *D. spp.* and *G. officinalis*. Mp 244-246°. $[\alpha]_D^{20}$
+40.3° (c, 0.14 in DMF). Claimed to be possibly a
tautomer of Neoavroside. Struct. doubtful.

Litvinenko, V.I. *et al*, *Farm. Zh. (Kiev)*, 1970, **25**, 84 (*config*)
Borodin, L.I. *et al*, *Khim. Prir. Soedin.*, 1970, **6**, 19; *Chem. Nat.*
Compd. (Engl. Transl.), 16 (*isol*, *uw*, *ir*)
Boguslavskaya, L.I. *et al*, *Khim. Prir. Soedin.*, 1983, **19**, 386;
Chem. Nat. Compd. (Engl. Transl.), 366 (*isol*)

Neobonellin**N-10013**

[69257-05-2]



$C_{37}H_{45}N_5O_5$ M 639.793

Pigment of the skin of *Bonellia viridis*. Embryotoxic.

α -Me ester: [75074-84-9].

$C_{38}H_{47}N_5O_5$ M 653.820

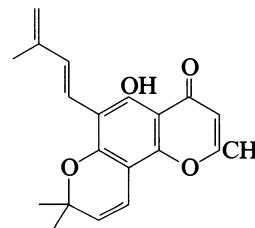
Constit. of *B. viridis*.

Cariello, L. *et al*, *Experientia*, 1978, **34**, 1427 (*isol*)

Ballantine, J.A. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1980, 1080
(*deriv*)

Neochamelin**N-10014**

[70897-79-9]



$C_{20}H_{20}O_4$ M 324.376

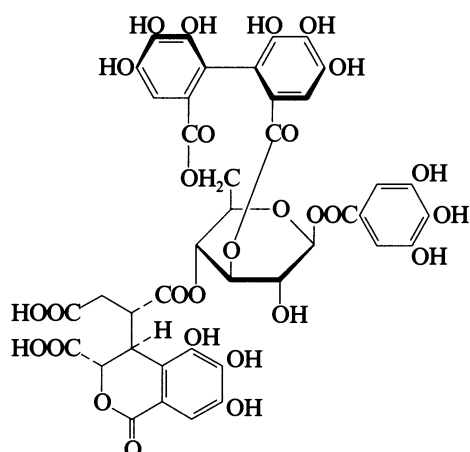
Struct. revised in 1977. Constit. of *Neochamelae
pulverulenta*. Cryst. Mp 168-174°.

González, A.G. *et al*, *An. Quim.*, 1972, **68**, 447; 1977, **73**, 557 (*isol*,
struct)

Epe, B. *et al*, *Chem. Ber.*, 1981, **114**, 757 (*synth*)

Neochebulagic acid

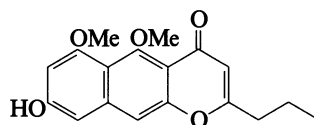
[28196-46-5]

 $C_{41}H_{32}O_{28}$ M 972.687

Constit. of *Excoecaria kawakamii*. Also obt. by hydrolysis of Chebulagic acid, C-00861. Tan powder + $5H_2O$. $[\alpha]_D^{13} - 72.6^\circ$ (c, 0.5 in MeOH).

Saijo, R. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2624.Lin, J.-H. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 2162 (*isol*)**Neocomantherin**

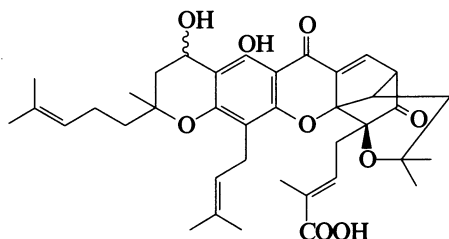
[31665-32-4]

 $C_{18}H_{18}O_5$ M 314.337

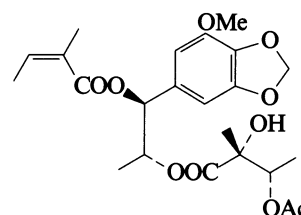
Constit. of *Comantheria perplexa* and *C. briareus*. Yellow cryst. (EtOAc). Mp 237° dec.

Kent, R.A. *et al*, *Aust. J. Chem.*, 1970, **23**, 2325 (*isol*, *pmr*)Francesconi, K.A. *et al*, *Aust. J. Chem.*, 1980, **33**, 2781 (*isol*, *pmr*, *ms*)**Neogambogic acid**

[93772-31-7]

 $C_{38}H_{46}O_9$ M 646.776Constit. of Gamboge (*Garcinia hanburryi*). Yellow.Lu, G. *et al*, *Yaoxue Xuebao*, 1984, **19**, 636; *CA*, **102**, 21181 (*isol*, *pmr*, *struct*)**N-10015****Neohelmantcin**

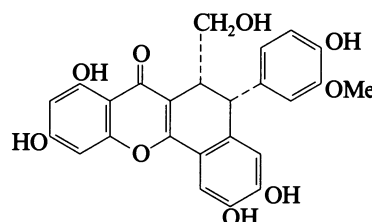
[99257-54-2]

 $C_{23}H_{30}O_{10}$ M 466.484

Constit. of the roots of *Thapsia villosa*. Gum. $[\alpha]_D^{25} + 20.8^\circ$ (c, 3.6 in $CHCl_3$).

De Pascual Teresa, J. *et al*, *Phytochemistry*, 1985, **24**, 2071 (*isol*, *struct*)**Neohydnocarpin**

[71417-57-7]



Relative configuration

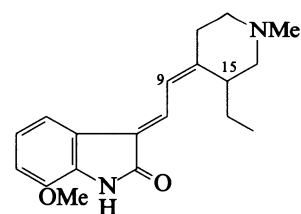
 $C_{25}H_{20}O_9$ M 464.428

Flavolignan. Isol. from the seeds of *Hydnocarpus wightiana*. Shows hypolipidemic and cytotoxic props.

Yellow cryst. (C_6H_6/Me_2CO). Mp $235-237^\circ$. $[\alpha]_D - 20.3^\circ$ (c, 0.59 in MeOH).

Hexa-Ac: Needles (C_6H_6 /petrol). Mp $236-238^\circ$.Parthasarathy, M.R. *et al*, *Phytochemistry*, 1979, **18**, 506 (*cmr*)Sharma, D.K. *et al*, *Planta Med.*, 1979, **37**, 79 (*isol*)Sharma, D.K. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 1298 (*props*)**N-10016****Neolaugerine**

[149405-98-1]

 $C_{19}H_{24}N_2O_2$ M 312.411Alkaloid from root bark of *Neolaugeria resinosa*

(Rubiaceae). Amorph. orange-red powder. $[\alpha]_D^{25} + 89^\circ$ (c, 0.60 in MeOH).

9E-Isomer: [149355-67-9]. **Isoneolaugerine** $C_{19}H_{24}N_2O_2$ M 312.411Alkaloid from root bark of *N. resinosa* (Rubiaceae).

Amorph. orange-red powder. $[\alpha]_D^{25} + 34^\circ$ (c, 0.80 in MeOH).

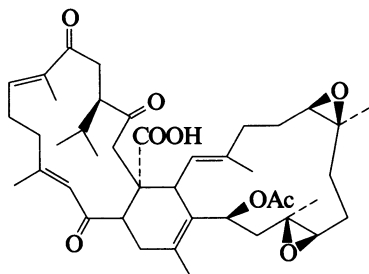
9E-Isomer, 15-hydroxy: [149355-68-0]. **15-****Hydroxyisonoelaugerine** $C_{19}H_{24}N_2O_3$ M 328.410Alkaloid from root bark of *N. resinosa* (Rubiaceae).

Amorph. orange-red powder. $[\alpha]_D^{25} + 3^\circ$ (c, 0.20 in MeOH).

Weniger, B. *et al*, *Phytochemistry*, 1993, **32**, 1587 (*isol*, *uv*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

Neosartortuic acid

N-10021

C₄₂H₅₈O₉ M 706.915

Me ester: [149182-64-9]. Methyl neosartortuate

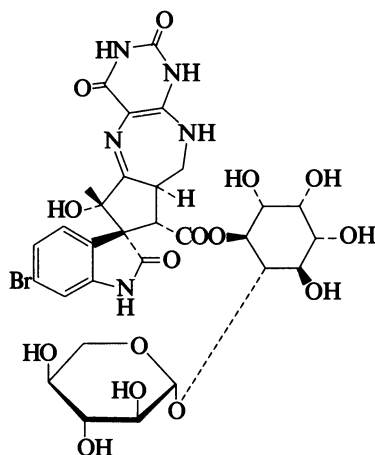
C₄₃H₆₀O₉ M 720.942Constit. of *Sarcophyton tortuosum*. Oil. [α]_D +142° (c, 1 in CCl₄).Leone, P.A. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 521 (isol, pmr, cmr)

Neosurugatoxin

N-10022

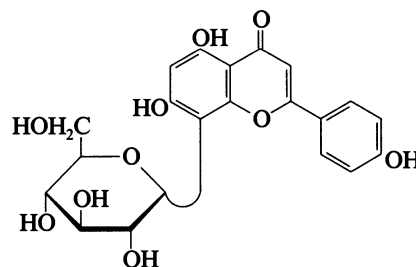
Updated Entry replacing N-00273

[80680-43-9]

C₃₀H₃₄BrN₅O₁₅ M 784.527Toxin from the mid-gut gland of *Babylonia japonica* (Japanese ivory shell) of dietary origin. Shows powerful antidiarrhetic activity. Prisms + 1H₂O (H₂O). Mp 331-335° dec. Extremely unstable in alkaline medium and fairly heat-labile.5'-O-Dexylosyl: [99102-40-6]. **Prosurgatoxin**C₂₅H₂₆BrN₅O₁₁ M 652.411Isol. from *B. japonica*. Ganglion blocking agent.Kosuge, T. et al, *Tetrahedron Lett.*, 1981, 3417 (cryst struct)Kosuge, T. et al, *Chem. Pharm. Bull.*, 1982, **30**, 3255; 1985, **33**, 2890, 3059 (isol, Prosurgatoxin)Inoue, S. et al, *CA*, 1983, **100**, 191639 (synth)Hayashi, E. et al, *J. Neurochem.*, 1984, **42**, 1491 (props)Inoue, S. et al, *Tetrahedron Lett.*, 1986, **27**, 5225 (synth)Inoue, S., *Yakugaku Zasshi*, 1987, **107**, 645 (rev, synth)Wada, A. et al, *Methods Neurosci.*, 1992, **8**, 311 (rev, props)

Neovitexin

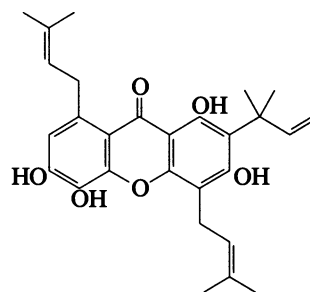
N-10023

8-α-D-Glucopyranosyl-4',5,7-trihydroxyflavone
[29774-67-2]C₂₁H₂₀O₁₀ M 432.383Constit. of *Malachium aquatum*, *Ranunculus repens*, *Otites* sp. and *Silene* sp.Isomer: [53152-15-1]. **Isonovitexin**C₂₁H₂₀O₁₀ M 432.383Constit. of *M. aquatum*, *O.* sp. and *S.* sp. Claimed to be 'possibly a tautomer'. Struct clearly not well founded.Litvinenko, V.I. et al, *Farm. Zh. (Kiev)*, 1969, **24**, 77; 1970, **25**, 84 (isol, struct)Darmograi, V.N., *Khim. Prir. Soedin.*, 1977, **13**, 114; 1980, **16**,838; *Chem. Nat. Compd. (Engl. Transl.)*, 102 (isol)Kudryavtsev, G.P. et al, *CA*, 1986, **105**, 133572 (*Isonovitexin*)

Nervosaxanthone

N-10024

[105742-86-7]

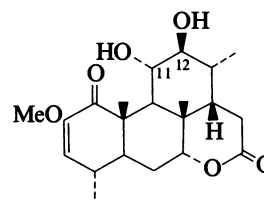
C₂₈H₃₂O₆ M 464.557Constit. of *Garcinia pyrifera*. Amorph.Ampofo, S.A. et al, *Phytochemistry*, 1986, **25**, 2351 (isol, pmr)

Nigakilactone A

N-10025

Updated Entry replacing N-00400

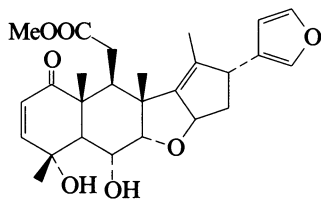
[24148-76-3]

C₂₁H₃₀O₆ M 378.464Constit. of *Picrasma ailanthoides*. Cryst. (MeOH aq.). Mp 237.5-238°. [α]_D +35° (c, 0.26 in EtOH).12-Me ether: [24148-77-4]. **Nigakilactone B.***Similikalactone A*C₂₂H₃₂O₆ M 392.491Constit. of *P. ailanthoides*, *P. quassioides* and *Quassia africana*. Cryst. (C₆H₆/pet. ether). Mp 278.5°. [α]_D +17° (c, 0.19 in EtOH).

- 12-Me ether, 11-Ac:** [24148-78-5]. *Nigakilactone C*
 $C_{24}H_{34}O_7$ M 434.528
 Constit. of *P. ailanthoides*. Cryst. (C_6H_6 /pet. ether). Mp 252.5-253°. $[\alpha]_D^{20} +9^\circ$ (c, 0.28 in EtOH).
- 11,12-Methylene ether:** [33204-37-4]. *Picrasin D*
 $C_{22}H_{30}O_6$ M 390.475
 Isol. from *P. ailanthoides* and *P. quassioides*. Cryst. (MeOH). Mp 283.5-285°.
- 11-Ketone:** [24148-81-0]. *Isoparaine*
 $C_{21}H_{28}O_6$ M 376.449
 Isol. from bark of *Aeschron crenata*. Cryst. (MeOH). Mp 258-261°. $[\alpha]_D^{20} -35.1^\circ$ (c, 1.2 in $CHCl_3$).
- 12-Ketone:** [35321-79-0]. *Paraine. Simalikalactone*
 Isol. from *A. crenata* and *Q. africana*. Cryst. (MeOH). Mp 245-246°. $[\alpha]_D^{21} +28.6^\circ$ (c, 0.69 in $CHCl_3$).
- 12-Epimer, 13,18-didehydro: 12 α -Hydroxy-13,18-dehydroparain**
 $C_{21}H_{28}O_6$ M 376.449
 Constit. of *Q. amara*. Powder (MeOH). Mp 238-241°.
- Tresca, J.P. et al, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1971, **273**, 601 (*Paraine*)
 Murae, T. et al, *Tetrahedron*, 1971, **27**, 1545 (*isol*)
 Murae, T. et al, *Tetrahedron Lett.*, 1971, 3897 (*struct*)
 Vitagliano, J.C. et al, *Phytochemistry*, 1972, **11**, 807 (*Paraine, Isoparaine*)
 Hikino, H. et al, *Phytochemistry*, 1975, **14**, 2473 (*Picrasin D*)
 Barbeti, P. et al, *Phytochemistry*, 1993, **32**, 1007 (*12 α -Hydroxy-13,18-dehydroparain*)

Nimbandiol

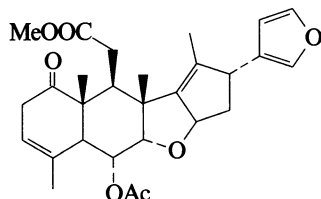
[78916-53-7]

N-10026

- $C_{26}H_{32}O_7$ M 456.535
 Constit. of *Azadirachta indica*. Cryst. (EtOAc). Mp 121°. $[\alpha]_D^{20} +187.9^\circ$ (c, 1 in $CHCl_3$).
- 6-Ac:** [78916-57-1]. **6-Acetylnimbandiol**
 $C_{28}H_{34}O_8$ M 498.572
 Constit. of *A. indica*. Cryst. (MeOH). Mp 178°. $[\alpha]_D^{20} +245^\circ$ (c, 1 in $CHCl_3$).
- Kraus, W. et al, *Chem. Ber.*, 1981, **114**, 2375 (*isol, pmr, cmr*)

Nimbinene

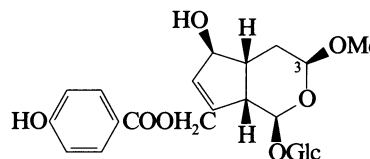
[78916-54-8]

N-10027

- $C_{28}H_{34}O_7$ M 482.572
 Constit. of *Azadirachta indica*. Cryst. (MeOH). Mp 134°. $[\alpha]_D^{20} +168^\circ$ (c, 1 in $CHCl_3$).
- O-De-Ac:** [78916-55-9]. **Deacetylnimbinene**
 $C_{26}H_{32}O_6$ M 440.535
 Constit. of *A. indica*. Cryst. (MeOH). Mp 141°. $[\alpha]_D^{20} +132^\circ$ (c, 1 in $CHCl_3$).
- Kraus, W. et al, *Chem. Ber.*, 1981, **114**, 2375 (*isol, pmr, cmr*)

Nishindaside**N-10028**

Updated Entry replacing N-00474
 [88204-92-6]



- $C_{23}H_{30}O_{12}$ M 498.483
 Revised stereochem. (1993). Constit. of *Vitex negundo* and *V. cannabifolia*. Amorph. powder. $[\alpha]_D -49.0^\circ$ (c, 0.16 in MeOH), $[\alpha]_D^{25} -83.5^\circ$ (c, 1 in MeOH).
- 3-Epimer: Isonishindaside**
 $C_{23}H_{30}O_{12}$ M 498.483
 Constit. of *V. cannabifolia*. Amorph. powder. $[\alpha]_D -120^\circ$ (c, 0.083 in MeOH).
- Dutta, P.K. et al, *Tetrahedron*, 1983, **39**, 3067 (*isol, pmr, cmr*)
 Iwagawa, T. et al, *Phytochemistry*, 1993, **32**, 453 (*isol, pmr, struct, deriv*)

Nitrogen oxide (NO), 11CI**N-10029**

Updated Entry replacing N-00492

Nitric oxide. Mononitrogen monoxide. Nitrogen monoxide. Endothelium derived relaxing factor. EDRF
 [10102-43-9]



NO M 30.006

15e⁻ molecule with 1e⁻ in antibonding orbital.

Interatomic distance: N—O 115 pm. Synth. from $NaNO_2 + FeSO_4 + H_2SO_4$. Found in exhaust gas, emission from power plants. Vasodilator, neurotransmitter substance functioning by release of cyclic GMP in tissues. Chemical defence substance biosynthesised from arginine by macrophages. Forms numerous complexes with transition metals. Commercially available. Used in manuf. of nitric acid. Colourless non-flammable gas or deep blue liq. With O_2 gives brown NO_2 . ($t_1/2$ 3-5 sec, in normal atmosphere). Partially dimerises to *cis,trans*- N_2O_2 as liq. Sl. sol. H_2O . d (liq. at bp) 1.269. Mp -163.6° . Bp -151.7° . $T_{crit} -94^\circ$; P_{crit} 65 atm. Paramagnetic.

► Highly toxic. Explosion-sensitive as liq. Implicated as a cause of acid rain. QX0525000.

Dimer: [16824-89-8]. *Nitrogen oxide (N₂O₂). Dinitrogen dioxide*

 N_2O_2 M 60.012

Formed by dimerisation of NO in an N_2 matrix at 15K or $h\nu + N_2O$ at 77K. Colourless liq. and solid. In gaseous form, dissociates to NO. Weak N---N interaction. Interatomic distances: O—N 112, N—N 218 pm. Exists as mixt. of *cis, trans*, isomers at low temps., *cis* being the more stable.

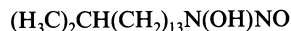
Mellor Compr. Treat. Inorg. Theor. Chem., Longman, London, 1928, **8**; 1967, **8**, 417; **8/II**, Part 2, 216 (*bibl*)

- Fateley, W. et al, *J. Chem. Phys.*, 1959, **31**, 204 (*ir, dimer*)
Inorg. Synth., 1964, **2**, 126; 1976, **16**, 1 (*synth, metal complexes*)
 Guillory, W.A. et al, *J. Chem. Phys.*, 1969, **50**, 3516 (*synth, ir, struct, dimer*)
 Brauer, G., *Handbuch Präp. Anorg. Chem.*, 3rd Ed., Ferdinand Enke Verlag, 1975-1981, **1**, 470 (*synth*)
 McCleverty, J.A., *Chem. Rev.*, 1979, **79**, 53 (*metal complexes*)
 Palmer, R.M.J. et al, *Nature (London)*, 1987, **327**, 524 (*pharmacol*)
 Marletta, M.A. et al, *Biochemistry*, 1988, **27**, 8706 (*pharmacol*)
 Garthuraite, J. et al, *Nature (London)*, 1988, **336**, 385 (*pharmacol*)

Kikuchi, K. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2233 (*bibl, detn*)
 Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, NEG100.

Nitrosoxacin A **N-10030**

N-(14-Methylpentadecyl)-N-nitrosohydroxylamine. N-Hydroxy-14-methyl-N-nitrosopentadecanamine, 9CI
 [147317-96-2]



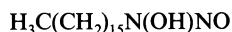
$C_{16}H_{34}N_2O_2$ M 286.457

Prod. by *Streptomyces* sp. 5-Lipoxygenase inhibitor.
 Powder. Mp 44-44.5°.

Nishio, M. *et al*, *J. Antibiot.*, 1993, **46**, 193 (*isol, struct*)

Nitrosoxacin B **N-10031**

N-Hexadecyl-N-nitrosohydroxylamine. N-Hydroxy-N-nitrosohexadecanamine, 9CI
 [147317-97-3]



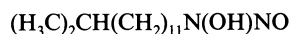
$C_{16}H_{34}N_2O_2$ M 286.457

Prod. by *Streptomyces* sp. 5-Lipoxygenase inhibitor.
 Powder. Mp 38.5-39.5°.

Nishio, M. *et al*, *J. Antibiot.*, 1993, **46**, 193 (*isol, struct*)

Nitrosoxacin C **N-10032**

N-(12-Methyltridecyl)-N-nitrosohydroxylamine. N-Hydroxy-12-methyl-N-nitrosotridecanamine, 9CI
 [147317-95-1]



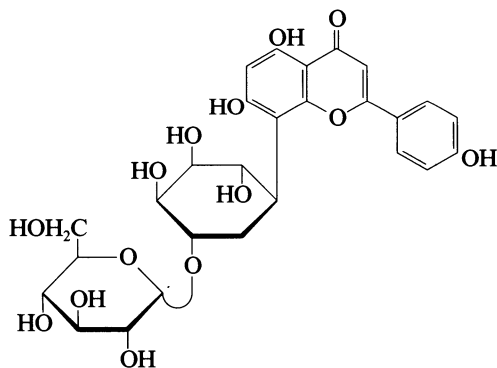
$C_{14}H_{30}N_2O_2$ M 258.403

Prod. by *Streptomyces* sp. 5-Lipoxygenase inhibitor.
 Powder. Mp 35.5-36°.

Nishio, M. *et al*, *J. Antibiot.*, 1993, **46**, 193 (*isol, struct*)

Nivyaside **N-10033**

8-(1-O- α -D-Glucopyranosyl-L-chiro-inosit-3-yl)-4',5,7-trihydroxyflavone
 [84563-91-7]



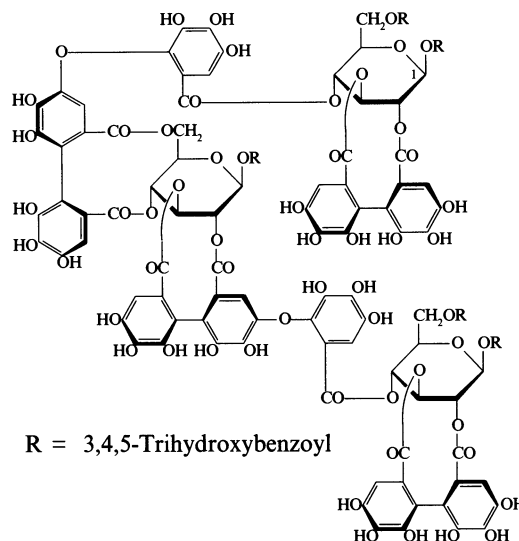
$C_{27}H_{30}O_{14}$ M 578.526

Constit. of *Leucanthemum vulgare*. Mp 238-240° dec. $[\alpha]_D^{20}$ -59.0° (c, 1.0 in EtOH aq.).

Sagareishvili, T.G. *et al*, *Khim. Prir. Soedin.*, 1982, **18**, 442; *Chem. Nat. Compd. (Engl. Transl.)*, 408 (*isol, struct*)

Nobotanin E

[113866-94-7]

N-10034

R = 3,4,5-Trihydroxybenzoyl

$C_{123}H_{84}O_{78}$ M 2809.970

A trimeric tannin isol. from the leaf of *Tibouchina semidecandra*. Off-white amorph. powder + 20H₂O. $[\alpha]_D^{20}$ +49° (c, 1.0 in MeOH).

1-O-Degalloyl: [111692-75-2]. **Nobotanin C**

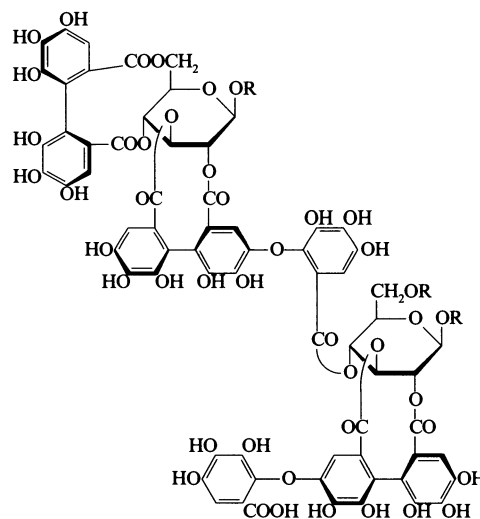
$C_{116}H_{80}O_{74}$ M 2657.864

Isol. from leaves of *T. semidecandra*. Off-white amorph. powder + 22H₂O. $[\alpha]_D^{20}$ +38° (c, 1.0 in MeOH). Exists as mixt. of α - and β -anomers.

Yoshida, T. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 2264 (*struct, uv, pmr, cmr*)

Nobotanin H

[113900-93-9]

N-10035

R = 3,4,5-Trihydroxybenzoyl

$C_{89}H_{60}O_{57}$ M 2041.419

A dimeric tannin isol. from the leaf of *Heterocentron roseum* and *Melastoma malabathricum*. Off-white amorph. powder + 12H₂O. $[\alpha]_D^{20}$ +80° (c, 0.5 in MeOH).

Me ester: [145274-77-7]. **Malabathrin D**

$C_{90}H_{62}O_{57}$ M 2055.446

Isol. from leaves of *M. malabathricum*. Off-white amorph. powder + 5H₂O. $[\alpha]_D^{20} + 54^\circ$ (c, 1.0 in MeOH).

Yoshida, T. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 3174; 1992, **40**, 66.

Yoshida, T. *et al*, *Phytochemistry*, 1992, **31**, 2829.

Nobotanin J N-10036

[113900-95-1]

C₁₂₃H₈₂O₇₈ M 2807.954

Complex tannin contg. hexahydroxydiphenoyl and galloyl residues. Ellagitannin from *Heterocentron roseum* and *Melastoma malabathricum*.

Okuda, T. *et al*, *Heterocycles*, 1990, **30**, 1195 (*struct*)

Yoshida, T. *et al*, *Phytochemistry*, 1992, **31**, 2829 (*isol*)

Nobotanin K N-10037

[119683-39-5]

C₁₆₄H₁₀₈O₁₀₄ M 3742.595

Large ellagitannin contg. valoneoyl, hexahydroxydiphenoyl and galloyl residues. Ellagitannin constit. of *Heterocentron roseum*.

Yoshida, T. *et al*, *J. Chromatogr.*, 1989, **467**, 139 (*isol, struct*)

3,6,9,12,15-Nonadecapentaene, 9CI N-10038

H₃CCH₂(CH=CHCH₂)₅CH₂CH₃

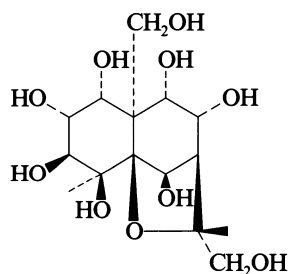
C₁₉H₃₀ M 258.446

All-(Z)-form [33426-21-0]

Found in marine benthic algae.

Youngblood, W.W. *et al*, *Mar. Biol. (Berlin)*, 1971, **8**, 190 (*isol, struct, ir, ms*)

1,2,3,4,6,8,9,13,14-Nonahydroxydihydro-β-agarofuran N-10039



C₁₅H₂₆O₁₀ M 366.364

(1α,2α,3β,4β,6β,8α,9α)-form [33376-82-8]

Euonyminol

Formed by hydrol. of alkaloids from *Trypterygium wilfordii*. Cryst. (MeOH/Me₂CO). Mp 250°.

Yamada, K. *et al*, *Tetrahedron*, 1973, **29**, 1773 (*synth*)

Spiteller, G. *et al*, *Tetrahedron*, 1974, **30**, 2577 (*synth*)

Taylor, I.F. *et al*, *Acta Crystallogr., Sect. B*, 1977, **33**, 3176 (*cryst struct*)

Nonanedioic acid, 9CI N-10040

1,7-Heptanedicarboxylic acid. *Azelaic acid*, INN. *Anchoic acid*. *Lepargylic acid*. *Emerox 1144*. *Skinoren*. ZK 62498

[123-99-9]

HOOC(CH₂)₇COOH

C₉H₁₆O₄ M 188.223

Occurs in rancid fats. Isol. from *Lycopodium* spp. and a few higher plants. Used to treat acne. Antineoplastic agent. Needles or leaflets. Spar. sol. H₂O. Mp 106.5°. Bp >360° part. dec., Bp₁₀ 226°. pK_{a1} 4.56; pK_{a2} 5.53 (25°, 0.1M KNO₃). Not steam-volatile.

▷ CM1980000.

Di-Me ester: [1732-10-1].

C₁₁H₂₀O₄ M 216.277

Bp₈ 140°.

Dichloride:

C₉H₁₄Cl₂O₂ M 225.114

Bp₁₈ 166°.

Anhydride: [4196-95-6]. 2,10-Oxecanedione, 9CI. *Azelaic anhydride*

C₁₈H₃₀O₇ M 358.431

Mp 53-55°.

Diamide:

C₉H₁₈N₂O₂ M 186.253

Prisms. Mp 175°.

Dinitrile: [1675-69-0]. 1,7-Dicyanoheptane

C₉H₁₄N₂ M 150.223

Liq. Bp₂₀ 195°. n_D²⁵ 1.4426.

Ger. Pat., 565 158, (1933); *CA*, **27**, 1008 (*synth*)

Org. Synth., 1933, **13**, 4 (*synth*)

Mowry, D.T. *et al*, *J. Am. Chem. Soc.*, 1950, **72**, 4439 (*synth*)

Org. Synth., Coll. Vol., 4, 1963, 62 (*nitrile*)

Housty, J. *et al*, *Acta Crystallogr.*, 1967, **22**, 288 (*cryst struct*)

Martindale, The Extra Pharmacopoeia, 28th/29th Ed.,

Pharmaceutical Press, London, 1982/1989, 14036.

Mingrone, G. *et al*, *Drugs Exp. Clin. Res.*, 1983, **9**, 447 (*tox*)

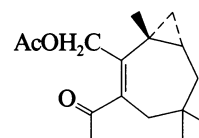
Breathnach, A.S. *et al*, *Br. J. Dermatol.*, 1984, **111**, 115 (*rev, pharmacol*)

Thesen, R., *Pharm. Ztg.*, 1992, **137**, 30, 34 (*rev*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, ASB750.

Norafricanone N-10041

[148225-34-7]

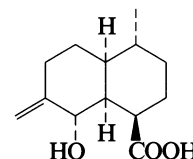


C₁₆H₂₄O₃ M 264.364

Constit. of *Porella caespitans*. Oil. $[\alpha]_D -204^\circ$ (c, 1.05 in CHCl₃).

Toyota, M. *et al*, *Phytochemistry*, 1993, **32**, 137 (*isol, pmr, cmr*)

Norannuic acid N-10042



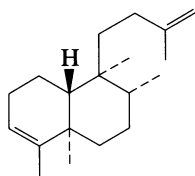
C₁₃H₂₀O₃ M 224.299

Constit. of *Artemisia annua*. Cryst. Mp 180-182°. $[\alpha]_D -104^\circ$ (c, 1 in MeOH).

Misra, L.N. *et al*, *Phytochemistry*, 1993, **33**, 1461 (*isol, pmr, cmr*)

15-Nor-3,13-clerodadiene

N-10043

C₁₉H₃₂ M 260.462**ent-form** [72184-00-0]

Isol. from the oleoresin of *Hardwickia pinnata*. Bp_{0.5} 120-125° (bath). [α]_D²⁹ –51.4° (c, 3.2 in CHCl₃). Poss. artifact.

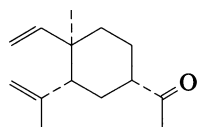
Misra, R. *et al*, *Tetrahedron*, 1979, **35**, 985 (*isol*)

13-Nor-1,3-elemadien-11-one

N-10044

Lobocalone

[147731-93-9]

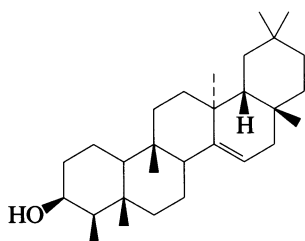
C₁₄H₂₂O M 206.327

Constit. of *Lobophytum* spp. Oil. [α]_D +16° (c, 0.5 in CHCl₃).

Su, J.-Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 279 (*isol*, *pmr*, *cmr*)Raju, B.L. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 961 (*isol*, *pmr*, *cmr*)

26-Nor-14-friedelen-3-ol

N-10045

C₂₉H₄₈O M 412.698**3β-form** [146356-88-9]

Constit. of *Phyllanthus watsonii*. Needles (MeOH/CHCl₃). Mp 190-191°. [α]_D²³ –64° (c, 0.32 in CHCl₃).

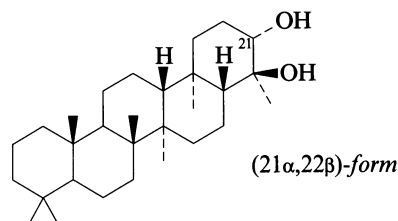
3-Ketone: [146356-87-8]. **26-Nor-14-friedelen-3-one**C₂₉H₄₆O M 410.682

Constit. of *P. watsonii*. Needles (MeOH/CHCl₃). [α]_D²³ –135° (c, 0.26 in CHCl₃).

Matsunaga, S. *et al*, *Phytochemistry*, 1993, **32**, 165 (*isol*, *pmr*, *cmr*, *cryst struct*)

30-Norgammacerane-21,22-diol

N-10046



(21α,22β)-form

C₂₉H₅₀O₂ M 430.713**(21α,22β)-form** [149260-87-7] **Hakonanediol**

Constit. of *Adiantum monochlamys*. Cryst. (CHCl₃/MeOH). Mp 270-272°. [α]_D +21° (CHCl₃).

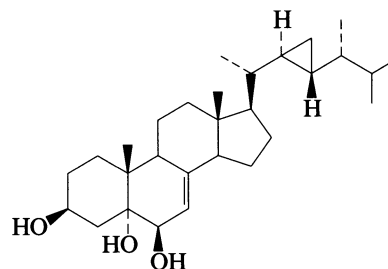
(21β,22β)-form [149260-88-8] **Epihakonanediol**

Constit. of *A. monochlamys*. Cryst. (CHCl₃/MeOH). Mp 299-301°. [α]_D +5° (CHCl₃).

Shiojima, K. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 262 (*isol*, *pmr*, *cmr*)

23-Norgorgost-7-ene-3,5,6-triol

N-10047

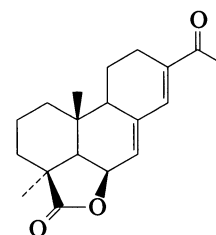
23-Demethylgorgost-7-ene-3,5,6-triolC₂₉H₄₈O₃ M 444.696**(3β,5α,6β,22R,23R,24R)-form** [147170-08-9]

Constit. of *Simularia* sp. Needles. Mp 229-232°. [α]_D –45° (c, 2.18 in Py).

Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 87 (*isol*, *pmr*, *cmr*)

16-Nor-15-oxo-7,13-abietadien-19,6-olide

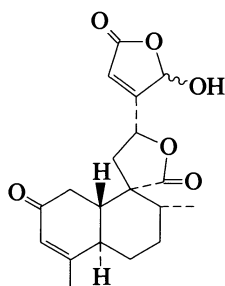
N-10048

C₁₉H₂₄O₃ M 300.397**6β-form** [151484-88-7] **Norjuniperolide**

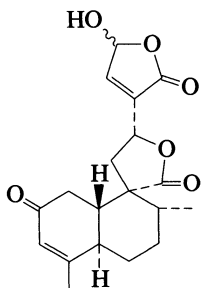
Constit. of *Juniperus chinensis*. Cryst. (MeOH). Mp 176.5-178°. [α]_D²⁵ –114.7° (c, 0.34 in MeOH).

Fang, J.-M. *et al*, *Phytochemistry*, 1993, **33**, 1169 (*isol*, *pmr*, *cmr*)

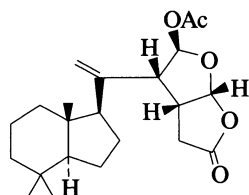
19-Nor-2-oxo-3,13-clerodadiene-15,16:20,12-diolide

C₁₉H₂₂O₆ M 346.379*(ent-12βH,16ξ)-form* [147742-03-8] *Isocajucarinolide*Constit. of *Croton cajucara*. Plates. Mp 205-206° dec.
[α]_D²⁰ –13.9° (c, 0.57 in CHCl₃/MeOH).Ichihara, Y. *et al*, *Planta Med.*, 1992, **58**, 549 (*isol*, *pmr*, *cmr*)

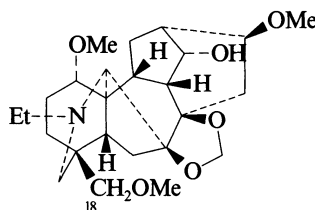
19-Nor-2-oxo-3,13-clerodadiene-16,15:20,12-diolide

C₁₉H₂₂O₆ M 346.379*(ent-12βH,15ξ)-form* [147741-98-8] *Cajucarinolide*Constit. of *Croton cajucara*. Plates. Mp 202-203° dec.
[α]_D²⁰ –38.1° (c, 0.52 in CHCl₃/MeOH).Ichihara, Y. *et al*, *Planta Med.*, 1992, **58**, 549 (*isol*, *pmr*, *cmr*)

Norrisolide

Updated Entry replacing N-00792
[85066-78-0]Relative
configurationC₂₂H₃₂O₅ M 376.492Constit. of *Chromodoris norrisi* and *Dysidea* spp. and
Chelonaphysilla violacea. Cryst. Mp 144.5-146°. [α]_D
+1.0° (c, 1 in CHCl₃).Hochlowski, J.E. *et al*, *J. Org. Chem.*, 1983, **48**, 1141 (*isol*)Rudi, A. *et al*, *Tetrahedron*, 1990, **46**, 4019 (*isol*)Bergquist, P.R. *et al*, *Aust. J. Chem.*, 1993, **46**, 623 (*isol*, *pmr*, *cmr*)

N-10049 Nudicaulamine

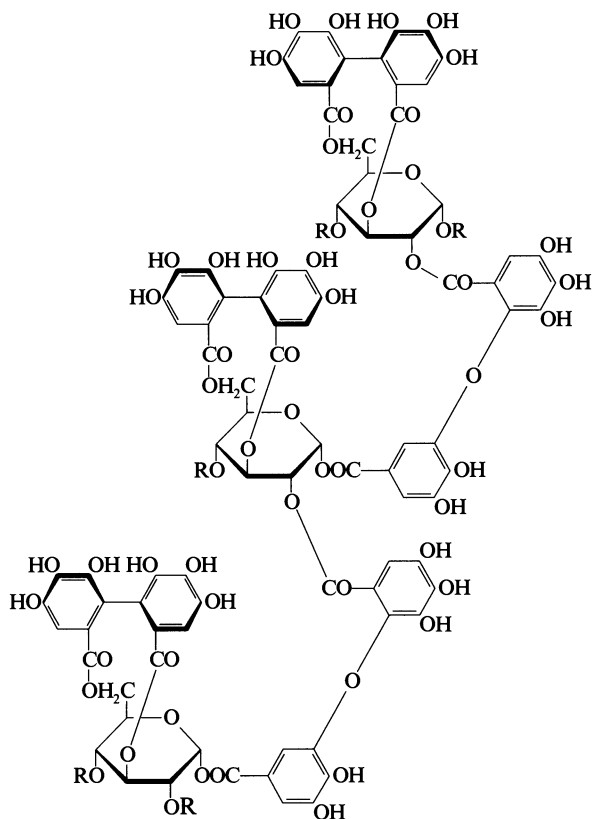
Updated Entry replacing N-00847
[99815-84-6]C₂₅H₃₉NO₆ M 449.586Alkaloid from *Delphinium nudicaule* (whole plant)
(Ranunculaceae). Noncryst. [α]_D –27° (c, 0.36 in
CHCl₃).*B, HClO₄*: Mp 212-214°.*14-Me ether*: [54387-74-5]. *Deoxydelcorine*C₂₆H₄₁NO₆ M 463.613Alkaloid from *D. corumbosum* (Ranunculaceae).O¹⁴-Me, O¹⁶-de-Me: [98752-03-5]. *Corumdefine*C₂₅H₃₉NO₆ M 449.586Alkaloid from *D. corumbosum* (Ranunculaceae).

Powder.

O¹-De-Me: [128700-86-7]. *Winkleriline*C₂₄H₃₇NO₆ M 435.559Alkaloid from the whole plant of *D. winklerianum*
(Ranunculaceae). Rhombic cryst. (Me₂CO/pet. ether).[α]_D²¹ +89.7° (c, 0.39 in CHCl₃).O¹-De-Me, di-Ac: Needles (EtOH). Mp 131-134°.O¹⁸-De-Me, O¹⁴-Me: [126223-69-6]. *Hohenackerine*C₂₅H₃₉NO₆ M 449.586Alkaloid from the aerial parts of *Consolida hohenackeri*
(Ranunculaceae).O¹, O¹⁸-Di-de-Me: *Ajadelphinine*C₂₃H₃₅NO₆ M 421.533Alkaloid from roots of *Delphinium ajacis*
(Ranunculaceae). Amorph. [α]_D –22.6° (c, 0.32 in
CHCl₃).Narzullaev, A.S. *et al*, *Khim. Prir. Soedin.*, 1974, 412.Kulanthaivel, P. *et al*, *Heterocycles*, 1985, **23**, 2515 (*ir*, *pmr*, *cmr*,
ms, *struct*)Salimov, B.T. *et al*, *Khim. Prir. Soedin.*, 1985, **21**, 95; *Chem. Nat.**Compd. (Engl. Transl.)*, 91 (*Corumdefine*)Sener, B. *et al*, *CA*, 1990, **112**, 175528 (*Hohenackerine*)Chen, Y.Z. *et al*, *Phytochemistry*, 1990, **29**, 1016 (*Winkleriline*)Pelletier, S.W. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 736
(*Ajadelphinine*)

Nupharin F

[124166-21-8]



R = 3,4,5-Trihydroxybenzoyl

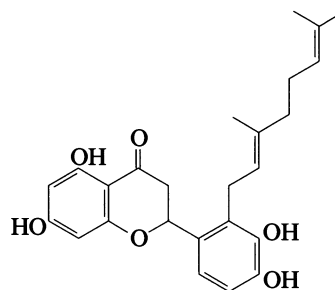
 $C_{123}H_{86}O_{78}$ M 2811.986Ellagitannin constit. of *Nuphar japonicum*. Off-white amorph. powder + $9H_2O$. $[\alpha]_D^{24} +40.3^\circ$ (c, 0.9 in Me_2CO).Ishimatsu, M. *et al*, *Chem. Pharm. Bull.*, 1989, 37, 1735 (struct, pmr, cmr)

N-10053

Nymphaeol B

2'-Geranyl-3',4',5,7-tetrahydroxyflavanone. 2'-Geranyleriodictyol

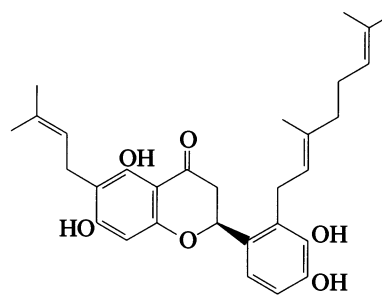
[73676-37-6]

 $C_{25}H_{28}O_6$ M 424.493Isol. from the leaves of *Hernandia nymphaefolia*. Cryst. Mp 48-52°.Yakushijin, K. *et al*, *Heterocycles*, 1980, 14, 397 (isol)

Nymphaeol C

2'-Geranyl-3',4',5,7-tetrahydroxy-6-prenylflavanone. 2'-Geranyl-6-prenyleriodictyol

[73676-36-5]

 $C_{30}H_{36}O_6$ M 492.611Isol. from the leaves of *Hernandia nymphaefolia*. Cryst.Mp 77-81°. $[\alpha]_D -14^\circ$.Yakushijin, K. *et al*, *Heterocycles*, 1980, 14, 397 (isol)

O

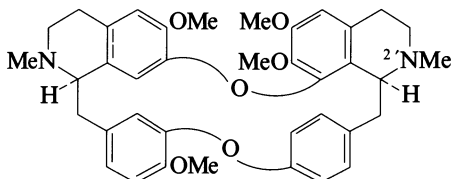
Obaberine

O-10001

Updated Entry replacing O-00001

6,6',7,12'-Tetramethoxy-2,2'-dimethoxyacanthan, 9Cl. O-Methoxyxyacanthine

[1263-80-5]



$C_{38}H_{42}N_2O_6$ M 622.760

Alkaloid from *Thalictrum lucidum*, *T. minus* Race B, *T. minus* var. *microphyllum*, *T. rugosum*, *Pycnarrhena longifolia*, *Berberis tschonoskyana*, *B. laurina*, *Dehaasia triandra*, *Mahonia repens* and *Albertisia papuana* (Ranuncula). Mp 139-140°, Mp 199-200°. $[\alpha]_D^{26} + 169^\circ$ (c, 0.147 in MeOH).

B,2HCl: Needles + 3H₂O. Mp 260-261°.

Dipicrate: Cryst. + 1H₂O. Mp 178-180° dec.

B,2MeI: Needles + 2H₂O. Mp 256-258° dec.

2'-N-De-Me: 2'-Norobaberine

$C_{37}H_{40}N_2O_6$ M 608.733

Alkaloid from the tubers of *Stephania pierrii* (Menispermaceae).

N²-De-Me, N²-oxide (β-): 2-Norobaberine 2'-β-N-oxide

$C_{37}H_{40}N_2O_7$ M 624.732

Alkaloid from seeds of *Anisocyclus cymosa* (Menispermaceae). Amorph. powder. $[\alpha]_D^{20} + 158^\circ$ (c, 0.31 in CHCl₃).

Fujita, E. et al, *Yakugaku Zasshi*, 1952, **72**, 213; *CA*, **47**, 6429a (struct, synth)

Tomita, M. et al, *Yakugaku Zasshi*, 1959, **79**, 317; *CA*, **53**, 17161e (isol)

Kugo, T. et al, *Yakugaku Zasshi*, 1960, **80**, 1425; *CA*, **55**, 5557a (isol, struct)

Battersby, A.R. et al, *J. Chem. Soc.*, 1965, 2239 (ord)

Falco, M.R. et al, *Tetrahedron Lett.*, 1968, 1953 (pmr)

Baldas, J. et al, *J. Chem. Soc., Perkin Trans. 1*, 1972, 592 (ms)

Wu, W.-N. et al, *J. Nat. Prod. (Lloydia)*, 1976, **39**, 378; 1978, **41**, 257; 1980, **43**, 143 (isol, synth)

Inubushi, Y. et al, *Chem. Pharm. Bull.*, 1977, **25**, 1636 (synth, pmr, ms)

Suess, T.R. et al, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 680 (isol)

Siwon, J. et al, *Phytochemistry*, 1981, **20**, 323 (isol, uv, pmr, ms)

Leboeuf, M. et al, *Plant. Med. Phytother.*, 1982, **16**, 280 (isol)

Nakova, E. et al, *Khim. Prir. Soedin.*, 1985, **21**, 86, 91; *Chem. Nat. Compd. (Engl. Transl.)*, 83, 88 (synth)

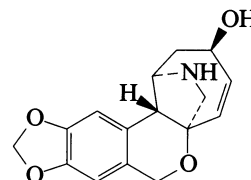
Tantisewie, B. et al, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 846 (2'-Norobaberine)

Kanyinda, B. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 618 (2-Norobaberine-2'-β-N-oxide)

Obesine

O-10002

[143114-83-4]



$C_{16}H_{17}NO_4$ M 287.315

Alkaloid from aerial parts and bulbs of *Narcissus obesus* (Amaryllidaceae). $[\alpha]_D^{20} - 5.6^\circ$ (c, 0.69 in MeOH).

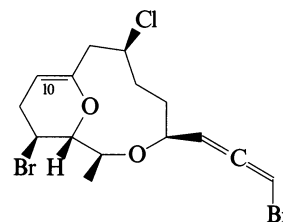
Viladomat, F. et al, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 804 (isol, pmr, cmr, ms, struct)

Obtusallene I

O-10003

Updated Entry replacing O-00027

[81920-18-5]



Relative configuration

$C_{15}H_{17}Br_2ClO_2$ M 424.559

Constit. of *Laurencia obtusa*. Cryst. (Et₂O/pet. ether). Mp 165-167°. $[\alpha]_D^{17} - 257.6^\circ$ (c, 0.53 in CHCl₃).

10-Bromo: [133883-63-3]. 10-Bromoobtusallene

$C_{15}H_{16}Br_3ClO_2$ M 503.455

Constit. of *L. obtusa*. Oil. $[\alpha]_D^{25} - 240^\circ$ (c, 0.19 in CHCl₃).

Cox, P.J. et al, *Acta Crystallogr., Sect. B*, 1982, **38**, 1386 (abs config)

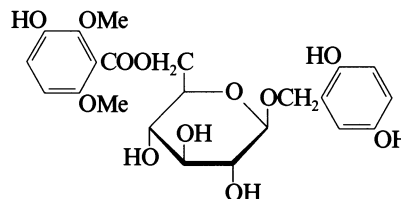
Cox, P.J. et al, *Tetrahedron Lett.*, 1982, **23**, 579 (cryst struct)

Oztunc, A. et al, *Tetrahedron*, 1991, **47**, 2273 (10-Bromoobtusallene)

Obtusaside

O-10004

[131889-65-1]



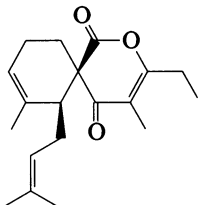
$C_{22}H_{26}O_{12}$ M 482.440

Isol. from the aerial parts of *Hypoxis obtusa*. Off-white powder.

Msonthi, J.D. et al, *Phytochemistry*, 1990, **29**, 3977 (isol)

Ocimepyrone**O-10005**

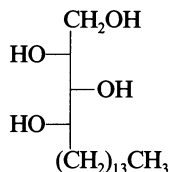
3-Ethyl-4,8-dimethyl-7-(3-methyl-2-butenyl)-2-oxaspiro[5.5]undeca-3,8-diene-1,5-dione, 9CI
[122585-72-2]

C₁₉H₂₆O₃ M 302.413Constit. of *Helichrysum petiolare*. Gum.Jakupovic, J. *et al*, *Phytochemistry*, 1989, **28**, 1119 (*isol*, *pmr*)**21-Octacosenoic acid****O-10006**H₃C(CH₂)₅CH=CH(CH₂)₁₉COOHC₂₈H₅₄O₂ M 422.733**(Z)-form** [140163-41-3]Constit. of the sponge *Amphimedon compressa*.Carballeira, N.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 333.**23-Octacosenoic acid****O-10007**H₃C(CH₂)₃CH=CH(CH₂)₂₁COOHC₂₈H₅₄O₂ M 422.733**(Z)-form** [97761-97-2]Constit. of the seed oil of *Grevillea decora*.Kleiman, R. *et al*, *Lipids*, 1985, **20**, 373 (*isol*)**7,9-Octadecadiynoic acid****O-10008**

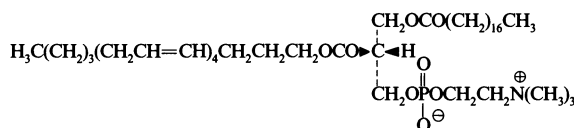
[33128-25-5]

H₃C(CH₂)₇C≡CC≡C(CH₂)₅COOHC₁₈H₂₈O₂ M 276.418Isol. from root bark of *Paramacrolobium caeruleum*. Cryst. (Me₂CO/pet. ether). Mp 51.5-52° (41-43°).*Me ester*: [35042-74-1].

Oil.

Morris, S.G., *J. Am. Oil Chem. Soc.*, 1971, **48**, 376 (*synth*)Morris, S.G., *J. Am. Oil Chem. Soc.*, 1972, **49**, 92, 505.Patil, A.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 153 (*isol*, *struct*, *ir*, *pmr*, *cmr*, *ms*)**1,2,3,4-Octadecanetetrol****O-10009****(2R,3R,4S)-form**C₁₈H₃₈O₄ M 318.496**(2R,3R,4S)-form** [116002-57-4]*L*-xylo-*form*Cryst. (EtOH). Mp 81-83°. [α]_D -5.7° (c, 0.42 in EtOH).**(2R,3S,4R)-form** [116002-56-3]*D*-lyxo-*form*Cryst. (EtOH). Mp 138-140°. [α]_D +5.1° (c, 0.1 in EtOH).**(2R,3S,4S)-form** [116002-55-2]*L*-ribo-*form*Needles (EtOH). Mp 101-103°. [α]_D -8.9° (c, 0.44 in EtOH).**(2S,3S,4R)-form** [105368-62-5]*D*-xylo-*form*. **Guggultetrol 18**Constit. of the saponified resin of *Commiphora mukul*.Mp 80-82°. [α]_D²⁵ +11.4° (c, 0.34 in EtOH).Kumar, V. *et al*, *Tetrahedron*, 1987, **43**, 5933 (*isol*, *synth*, *struct*)**1-O-Octadecanoyl-2-O-arachidonoyl-sn-glycero-3-phosphocholine****O-10010**

I-Acyl-2-arachidonoyl-GPC. 1-Stearoyl-2-arachidonoyl-sn-glycero-3-phosphorylcholine. 4-Hydroxy-N,N,N-trimethyl-9-oxo-7-[[[1-oxooctadecyl)oxy)methyl]-3,5,8-trioxa-4-phosphaoctacos-13,16,19,22-tetraen-1-aminiumhydroxide, inner salt, 4-oxide

C₄₆H₈₄NO₈P M 810.145**(R)-(all-Z)-form** [35418-59-8]*Stearoylarachidonylphosphatidylcholine*

Main source of arachidonic acid from human platelets and endothelial cells.

[18892-74-5, 128114-96-5]

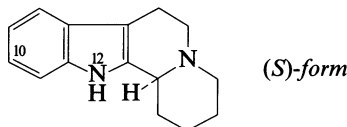
Ghosh, D. *et al*, *Biochim. Biophys. Acta*, 1972, **266**, 41.Cronholm, T. *et al*, *Eur. J. Biochem.*, 1977, **77**, 337 (*biosynth*)Porter, N.A. *et al*, *Lipids*, 1979, **14**, 20 (*hplc*)Santaren, J.F. *et al*, *Org. Magn. Reson.*, 1982, **18**, 98 (*synth*, *cmr*)Chilton, F.H. *et al*, *J. Biol. Chem.*, 1986, **261**, 7771 (*metab*)Chilton, F.H. *et al*, *Methods Enzymol.*, 1990, **187**, 157 (*biochem*)Cubre, F. *et al*, *Biochim. Biophys. Acta*, 1992, **1124**, 297 (*biochem*)**2,4,14-Octadecatrienoic acid****O-10011**H₃CCH₂CH₂CH=CH(CH₂)₈CH=CHCH=CHCOOHC₁₈H₃₀O₂ M 278.434**(2E,4E,14Z)-form***Piperidide*: [144525-15-5]. **Piperoctadecalidine**C₂₃H₃₉NO M 345.567Alkaloid from fruits of *Piper retrofractum* (Piperaceae).

Oil.

Ahn, J.W. *et al*, *Phytochemistry*, 1992, **31**, 3609.**10-Octadecen-8-ynoic acid****O-10012**H₃C(CH₂)₆CH=CHC≡C(CH₂)₆COOHC₁₈H₃₀O₂ M 278.434**(Z)-form** [135329-81-6] **Xionenynic acid**Constit. of the seed oil of *Vernonia galamensis*.Afolabi, O.A. *et al*, *J. Chem. Technol. Biotechnol.*, 1991, **51**, 41 (*isol*)

1,2,3,4,6,7,12,12*b*-Octahydroindolo[2,3-*a*] quinolizine, 9CI **O-10013**

Updated Entry replacing O-00192
[4802-79-3]



$C_{15}H_{18}N_2$ M 226.321

(*R*)-form

Mp 149-151°. $[\alpha]_D + 84.8^\circ$ (MeOH).

(*S*)-form [10252-12-7]

Main alkaloid from leaves of *Dracontomelon mangiferum* (Anacardiaceae). Mp 149-151°. $[\alpha]_D - 86.5^\circ$ (MeOH). The alkaloid is partly racemic.

10-Bromo: Arborescidine A

$C_{15}H_{17}BrN_2$ M 305.217

Alkaloid from the marine tunicate *Pseudodistoma arborescens*. Cryst. (MeOH). Mp 202°. $[\alpha]_D - 85^\circ$ (c, 1 in $CHCl_3$).

(±)-form [46798-86-1]

Alkaloid from *D. mangiferum* (Anacardiaceae). Inhibitor of spontaneous motor activity, antiphlogistic agent. Mp 153-155° (148-151.5°). Many syntheses reported.

B, HCl: Mp 311-312°.

Johns, S.R. *et al*, *Aust. J. Chem.*, 1966, **19**, 1951 (*isol, uv, ir, pmr, ms, struct*)

Pospíšek, J. *et al*, *Chem. Ind. (London)*, 1969, 25 (*resoln, ord, config*)

Gribble, G.W. *et al*, *J. Org. Chem.*, 1974, **39**, 1845; 1975, **40**, 3720 (*ms, cmr*)

Nakagawa, M. *et al*, *Chem. Pharm. Bull.*, 1975, **23**, 304 (*synth, bibl*)

Rosenmund, P. *et al*, *Justus Liebigs Ann. Chem.*, 1979, 1643 (*synth, uv*)

Chbani, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 99 (*Arborescidine A*)

Octanedioic acid, 9CI **O-10014**

Suberic acid, 8CI

[505-48-6]



$C_8H_{14}O_4$ M 174.196

Isol. from stems and leaves of *Anthyllis sericea* and roots of *Phaseolus vulgaris*. Used in plastics industry. Cryst. (H_2O or $C_6H_6/EtOH$). Mp 144°. pK_{a1} 4.53; pK_{a2} 5.52 (25°, 0.1M KNO_3). Subl. > 300°.

Mono-Me ester: [3946-32-5].

$C_9H_{16}O_4$ M 188.223

Mp 14-15°. Bp₁₈ 185-186°.

Di-Me ester: [1732-09-8].

$C_{10}H_{18}O_4$ M 202.250

Fp -3.1° . Bp 268°, Bp₉ 130-131°.

Di-Et ester: [2050-23-9].

$C_{12}H_{22}O_4$ M 230.303

d 0.98. Mp 5°. Bp 282°.

▷ n_D^{20} 1.43.

Dichloride: [10027-07-3].

$C_8H_{12}Cl_2O_2$ M 211.087

Bp₁₂ 149-150°.

Anhydride: Suberic anhydride

$C_8H_{12}O_3$ M 156.181

Needles (C_6H_6). Mp 65-66°.

Monoamide: [73427-53-9]. *8-Amino-8-oxooctanoic acid, 9CI. Suberamic acid*

$C_8H_{15}NO_3$ M 173.211

Cryst. (H_2O). Mp 125-127°.

Diamide: [3891-73-4].

$C_8H_{16}N_2O_2$ M 172.227

Cryst. (H_2O). Mp 216-217°.

Dinitrile: [629-40-3]. *Suberonitrile. 1,6-Dicyanohexane*

$C_8H_{12}N_2$ M 136.196

Mp -3.5° . Bp₁₁ 176-178°.

Green, T.G. *et al*, *J. Chem. Soc.*, 1937, 766 (*synth*)

Cason, J. *et al*, *J. Org. Chem.*, 1949, **14**, 37 (*synth*)

Hopff, H. *et al*, *Justus Liebigs Ann. Chem.*, 1966, **691**, 61 (*synth*)

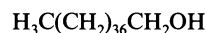
Angelo, B., C. R. *Hebd. Seances Acad. Sci.*, 1971, **273**, 1767 (*synth*)

Takasugi, M. *et al*, *Chem. Lett.*, 1973, 445 (*isol*)

Chern, C.-I. *et al*, *J. Org. Chem.*, 1976, **41**, 1077 (*synth*)

Marco, J.A. *et al*, *Phytochemistry*, 1978, **17**, 1438 (*isol*)

Ansell, M.F. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1984, 1061 (*synth, pmr*)

1-Octatriacontanol **O-10015**

$C_{38}H_{78}O$ M 551.034

Constit. of *Erythrina stricta* bark.

[128305-32-8]

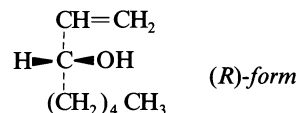
Singh, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 526 (*isol*)

1-Octen-3-ol, 9CI **O-10016**

Updated Entry replacing O-00241

Amyl vinyl carbinol. Matsutake alcohol. Matsutakeol

[3391-86-4]



$C_9H_{16}O$ M 128.214

Constit. of the defense secretions of *Leiobunum nigripalpi*.

Oil. Bp₄₃ 73°.

▷ LD₅₀ (rat, orl) 340 mg/kg. RH3300000.

(*R*)-form [22658-80-6]

Isol. from a number of essential oils, e.g. lavender, leek, mint and mushrooms. $[\alpha]_D^{17} - 13.1^\circ$ (EtOH).

Ac:

$C_{10}H_{18}O_2$ M 170.251

Found in lavender oil. Used in perfumery. Bp 190°. $[\alpha]_D^{20} + 3.5^\circ$.

Hydrogen phthalate: Mp 57°.

(*S*)-form [62247-46-5]

$[\alpha]_D^{17} + 10.7^\circ$ (EtOH).

(±)-form [74072-82-5]

Used in lavender and mushroom like perfume compositions. Liq. with intense earthy odour. Bp 173.5°. n_D^{20} 1.4378.

Hydrogen phthalate: Mp 79°.

[3687-48-7, 24587-53-9, 50999-79-6]

Honkanen, E. *et al*, *Acta Chem. Scand.*, 1963, **17**, 858 (*isol*)

Tsuji, J. *et al*, *Bull. Chem. Soc. Jpn.*, 1976, **49**, 1701 (*synth, spectra*)

Roumestant, M.L. *et al*, *Synthesis*, 1976, 755 (*synth*)

McGahren, W.J. *et al*, *J. Org. Chem.*, 1977, **42**, 1659 (*abs config*)

Nakai, T. *et al*, *Tetrahedron Lett.*, 1977, 2425 (*synth*)

Takabe, K. *et al*, *Synth. Commun.*, 1980, **10**, 89 (*synth*)

Whitfield, F.B. *et al*, *Aust. J. Chem.*, 1982, **35**, 373 (*isol*)

Shimazaki, M. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 3073 (*synth*)
 Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th
 Ed., Van Nostrand-Reinhold, 1992, ODW000.

Odontoside† **O-10017**

4-[[3,4-Dihydroxybenzoyloxy)methyl]-2-hydroxyphenyl β-D-glucopyranoside, 9CI. Calleryanin monoprotocatechuate, 8CI [20300-50-9]



$C_{20}H_{22}O_{11}$ M 438.387

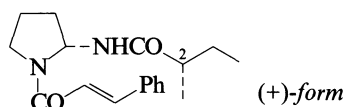
Constit. of *Achrocyline satureioides*, *Odontosoria gymnomammoides* and *Podocarpus andina*. Pale yellow powder. Mp 98-102°. $[\alpha]_D -65^\circ$.

Chalice, J.S. *et al*, *Phytochemistry*, 1968, **7**, 119 (*isol*)
 Poyser, J.P. *et al*, *Rev. Latinoam. Quim.*, 1973, **4**, 157 (*isol*)
 Ferraro, G.E. *et al*, *Phytochemistry*, 1981, **20**, 2053 (*isol*)
 Hori, K. *et al*, *Yakugaku Zasshi*, 1987, **107**, 774 (*isol*)

Odorine**O-10018**

Updated Entry replacing O-00262

2-Methyl-N-[1-(1-oxo-3-phenyl-2-propenyl)-2-pyrrolidinyl]butanamide, 9CI. N-Cinnamoyl-2-(2-methylbutanoylamino)pyrrolidine. Roxburghilin [72755-20-5]



$C_{18}H_{24}N_2O_2$ M 300.400

(+)-form

Alkaloid from the leaves of *Aglaia odorata*. Also isol. from *A. roxburghiana* (Meliaceae). Needles (C_6H_6). Mp 218-219°. $[\alpha]_D^{25} +72.4^\circ$ (c, 0.03 in $CHCl_3$).

2-Hydroxy: [72755-22-7]. **(+)-Odorinol**.

Hydroxyroxburghilin

$C_{18}H_{24}N_2O_3$ M 316.399

Alkaloid from *A. odorata* and *A. roxburghiana* (Meliaceae). Inhibitor of P-388 lymphocytic leukaemia in mice. Needles (pet. ether). Mp 166-168°. $[\alpha]_D^{25} +40.5^\circ$ (c, 0.01 in $CHCl_3$).

2,3-Didehydro: **Dehydroodorine**

$C_{18}H_{22}N_2O_2$ M 298.384

Alkaloid from leaves of *A. formosana* (Meliaceae). Exhibits cytotoxicity against P-388 lymphocytic leukaemia system in cell culture. Needles (MeOH). Mp 167-168°. $[\alpha]_D^{18} +42.5^\circ$ (c, 0.01 in $CHCl_3$).

(-)-form

2-Hydroxy: **(-)-Odorinol**

$C_{18}H_{24}N_2O_3$ M 316.399

Alkaloid from *A. odorata* (Meliaceae). Mp 209-211°. $[\alpha]_D -20^\circ$ (EtOH), $[\alpha]_D -35^\circ$ ($CHCl_3$).

(±)-form

Synthetic. Needles (C_6H_6). Mp 187-190°.

2-Epimer: Synthetic. Needles (C_6H_6). Mp 174-177°.

Purushothaman, K.K. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1979, 3171.

Shiengthong, D. *et al*, *Tetrahedron Lett.*, 1979, 2247 (*uv, ir, pmr, ms, struct*)

Babidge, P.J. *et al*, *Aust. J. Chem.*, 1980, **33**, 1841 (*isol, synth*)

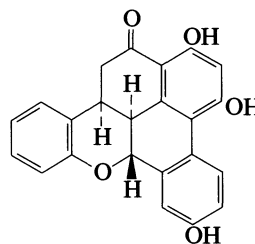
Hayashi, N. *et al*, *Phytochemistry*, 1982, **21**, 2371 (*uv, ir, pmr, cmr, ms, cryst struct, synth*)

Nagasaka, T. *et al*, *Heterocycles*, 1988, **27**, 2219 (*synth, ir, pmr*)

Duh, C.-Y. *et al*, *Phytochemistry*, 1993, **34**, 857 (*Dehydroodorine*)

Ohioensin A**O-10019**

7b,12b,13,14c-Tetrahydro-1,3,6-trihydroxy-14H-benzo[c]naphtho[2,1,8-mna]xanthen-14-one, 9CI [121353-47-7]

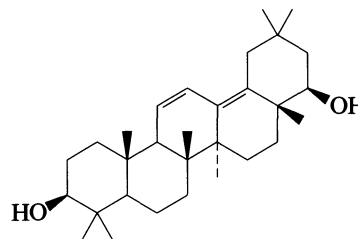


Relative configuration

$C_{23}H_{16}O_5$ M 372.376

Isol. from the moss *Polytrichum ohioense*. Yellow needles ($CHCl_3/MeOH$). Mp 274-275° dec. $[\alpha]_D^{27} +37^\circ$ (c, 0.1 in MeOH).

Zheng, G.Q. *et al*, *J. Am. Chem. Soc.*, 1989, **111**, 5500 (*isol, struct*)

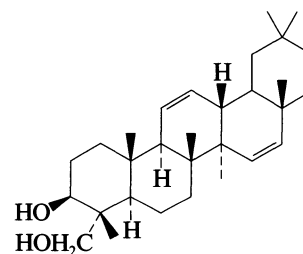
11,13(18)-Oleanadiene-3,22-diol**O-10020**

$C_{30}H_{48}O_2$ M 440.708

(3β,22β)-form [149183-66-4] **Squasapogenol**

Constit. of *Glycyrrhiza squamulosa*. Cryst. (as di-Ac). Mp > 300° (di-Ac).

Liang, H. *et al*, *Acta Pharm. Sin.*, 1993, **28**, 116 (*isol, pmr, cmr*)

12,15-Oleanadiene-3,23-diol**O-10021**

$C_{30}H_{48}O_2$ M 440.708

3β-form

3-O-[α-L-Rhamnopyranosyl-(1→6)[α-D-galactopyranosyl-(1→2)]-β-D-glucopyranosyl-(1→4)-α-D-galactopyranosyl-(1→2)-α-L-arabinopyranosyl-(1→3)-β-D-glucuronoside]: [30937-16-7]. **Phaseolside D**

$C_{65}H_{104}O_{31}$ M 1381.518

Isol. from *Phaseolus vulgaris*.

3-O-[β-D-Glucopyranosyl-(1→4)-β-D-glucopyranosyl-(1→4)-α-D-galactopyranosyl-(1→2)[α-L-rhamnopyranosyl-(1→6)]-β-D-glucopyranosyl-(1→4)-α-D-galactopyranosyl-(1→2)-α-L-arabinopyranosyl-(1→3)-β-D-glucuronoside]: [30915-09-4]. **Phaseolside E**

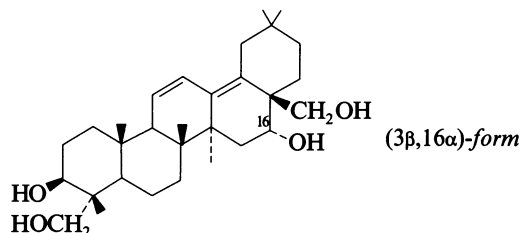
$C_{77}H_{124}O_{41}$ M 1705.802

Isol. from *P. vulgaris*.

Chirva, V.Y. *et al*, *Khim. Prir. Soedin.*, 1970, 6, 377, 559 (*isol, struct*)
Lazur'evskii, G.V. *et al*, *Dokl. Akad. Nauk SSSR, Ser. Khim.*, 1971, 199, 226; *CA*, 75, 115903 (*struct*)

11,13(18)-Oleanadiene-3,16,23,28-tetrol O-10022

Updated Entry replacing O-00303

C₃₀H₄₈O₄ M 472.707**(3β,16α)-form [5573-16-0] Saikogenin D**

Constit. of *Bupleurum falcatum* root and *Polycarpone loeflingiae*. Mp 256-261°. [α]_D +236.8° (c, 0.5 in CHCl₃). Artifact.

3-O-[α-L-Arabinofuranosyl-(1→4)-[β-D-glucopyranosyl-(1→2)]-α-L-arabinopyranosyl-(1→4)-β-D-glucopyranoside]: [132396-81-7]. **Polycarponoside A**

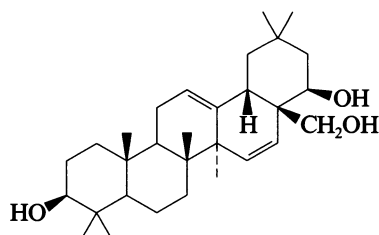
C₅₂H₈₄O₂₂ M 1061.222

Constit. of the aerial parts of *Polycarpone loeflingiae*. Cryst. (MeOH). Mp 172-174°. [α]_D -28.6° (c, 1.6 in MeOH).

(3β,16β)-form [5092-09-1] Saikogenin A

Sapogenin obtained from *Saikosides Ia and Ib* from *B. falcatum* root and from *P. loeflingiae* and *Verbascum thapsus*. Shows antiinflammatory props. Cryst. (MeOH). Mp 287-290°. [α]_D -43.3° (c, 0.6 in MeOH). Artifact.

Kubota, T. *et al*, *Tetrahedron*, 1967, 23, 3333 (*isol, struct*)
De Pascual Teresa, J. *et al*, *An. Quim.*, 1978, 74, 311 (*isol*)
Bhandari, S.P.S. *et al*, *J. Indian Chem. Soc.*, 1987, 64, 258 (*isol*)
Bhandari, S.P.S. *et al*, *Phytochemistry*, 1990, 29, 3889 (*Polycarponoside A*)

12,15-Oleanadiene-3,22,28-triol O-10023C₃₀H₄₈O₃ M 456.707

Struct. incorrectly drawn in ref.

(3β,22β)-form [147348-08-1] Salvitriol

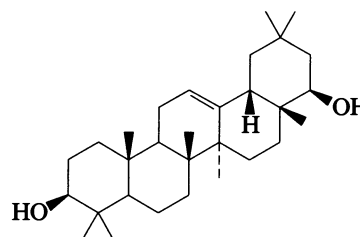
Constit. of *Salvia leucantha*. Cryst. Mp 240-241°.

Mukherjee, K.S. *et al*, *J. Indian Chem. Soc.*, 1992, 69, 410 (*isol, pmr*)

12-Oleanene-3,22-diol

O-10024

Updated Entry replacing O-00330

C₃₀H₅₀O₂ M 442.724**(3β,22β)-form [6822-47-5] Sophoradiol**

Constit. of *Abrus cantoniensis* and *Sophora japonica*. Needles. Mp 219-220°. [α]_D²⁵ +113°.

Di-Ac: [24427-91-6].

Cryst. Mp 220-221°.

3-O-[β-D-Glucopyranosyl-(1→2)-β-D-glucopyranosuronate]:

[82793-02-0]. **Azukisaponin I**C₄₂H₆₈O₁₃ M 780.991

Isol. from seeds of *Vigna angularis*. Cryst. (EtOH). Mp 215-217°. [α]_D²⁸ +16.0° (c, 0.3 in MeOH).

22-Ketone: [121994-08-9]. 3-Hydroxy-12-oleanen-22-one.

Abrisapogenol FC₃₀H₄₈O₂ M 440.708

Constit. of *A. cantoniensis*. Needles. Mp 66-67°. [α]_D +15.4° (CHCl₃).

3-O-[β-D-Xylopyranosyl-(1→2)-β-D-galactopyranosyl-(1→2)-β-D-glucuronopyranoside]: [134859-87-3].

C₄₇H₇₆O₁₇ M 913.107Isol. from the aerial parts of *Crotalaria albida*.

3-O-[β-D-Galactopyranosyl-(1→2)-β-D-glucuronopyranoside]:

[117210-04-5]. **Kaikasaponin I**C₄₂H₆₈O₁₃ M 780.991Constit. of *S. japonica*.

3-O-[α-L-Rhamnopyranosyl-(1→2)-β-D-glucopyranosyl-(1→2)-β-D-glucuronopyranoside]: [117210-05-6].

Kaikasaponin IIC₄₈H₇₈O₁₇ M 927.134Constit. of the buds of *S. japonica*.

3-O-[α-L-Rhamnopyranosyl-(1→2)-β-D-galactopyranosyl-(1→2)-β-D-glucuronopyranoside]: [115330-90-0].

Kaikasaponin IIIC₄₈H₇₈O₁₇ M 927.134

Constit. of *C. albida*, *Dalbergia hupeana*, *Pueraria lobata* and *S. japonica*. Mp 170-172°. [α]_D²² -8.1° (c, 1 in Py).

3-O-[α-L-Rhamnopyranosyl-(1→2)-α-L-arabinopyranosyl-(1→2)-β-D-glucuronopyranoside]: [115330-93-3].

C₄₇H₇₆O₁₆ M 897.108Constit. of *P. lobata*.

[86500-79-0, 86500-80-3]

Ishimasa, S. *et al*, *Yakugaku Zasshi*, 1956, 76, 1210; 1960, 80, 304 (*isol, struct, synth*)

Kitagawa, I. *et al*, *Chem. Pharm. Bull.*, 1982, 30, 2294; 1983, 31, 674 (*isol, struct*)

Mak, T.C.W. *et al*, *J. Chem. Soc., Chem. Commun.*, 1982, 785 (*isol, cryst struct*)

Kitagawa, I. *et al*, *Yakugaku Zasshi*, 1988, 108, 538; *CA*, 109, 196978 (*Kaikasaponins*)

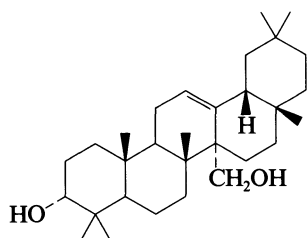
Takeshita, T. *et al*, *Chem. Pharm. Bull.*, 1989, 37, 846 (*Abrisapogenol F*)

Takechita, T. *et al*, *Chem. Pharm. Bull.*, 1989, 37, 846 (*Abrisapogenol F*)

Ding, Y. *et al*, *Chem. Pharm. Bull.*, 1991, 39, 496 (*Kaikasaponin III*)

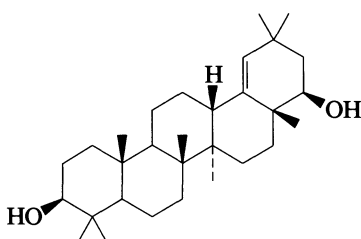
12-Oleanene-3,27-diol

O-10025

C₃₀H₅₀O₂ M 442.724**3 α -form** [147974-64-9]Constit. of *Plumeria rubra*. Needles (MeOH). Mp 183-184°. [α]_D²⁰ +32° (c, 0.094 in CHCl₃).Akhtar, N. *et al*, *Phytochemistry*, 1993, **32**, 1523 (*isol*, *pmr*, *cmr*)

18-Oleanene-3,22-diol

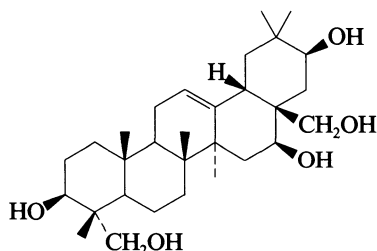
O-10026

C₃₀H₅₀O₂ M 442.724**(3 β ,22 β)-form***Kalamadiol*Cryst. (CHCl₃/MeOH). Mp 190°.**3-Ac:**C₃₂H₅₂O₃ M 484.761Constit. of *Mallotus philippinensis*.Nair, S.P. *et al*, *Phytochemistry*, 1993, **32**, 407 (*isol*, *pmr*, *cmr*)

12-Oleanene-3,16,21,23,28-pentol

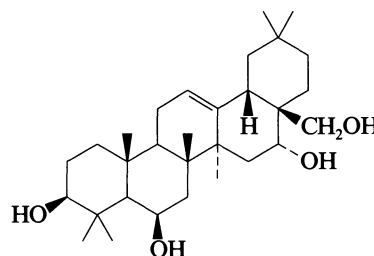
O-10027

Updated Entry replacing O-00351

C₃₀H₅₀O₅ M 490.722**(3 β ,16 β ,21 β)-form** [19942-02-0] *Gymnestrogenin*Constit. of *Gymnema sylvestre*. Cryst. Mp 288-289°. [α]_D²⁴ +53.5° (c, 0.71 in MeOH).**16-Benzoyl:** Cryst. (CHCl₃/MeOH). Mp 282-284°. [α]_D +59° (c, 1 in EtOH).**3-O- β -D-Glucuronopyranoside:** [121903-97-7]. *Gymnemic acid VII*C₃₆H₅₈O₁₁ M 666.848Constit. of *G. sylvestre*. Cryst. Mp 222-223°. [α]_D +9.6° (c, 5.7 in MeOH).**3-O- β -D-Glucopyranoside, 16-benzoyl:** [119513-72-3].*Glochidioside N*C₄₃H₆₄O₁₁ M 756.972Constit. of *Glochidion heyneanum*. Amorph. powder.**3-O-[β -D-Glycopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], 16-benzoyl:** [119539-76-3]. *Glochidioside Q*C₄₉H₇₄O₁₆ M 919.114Constit. of *G. heyneanum*. Amorph. powder.**3-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)- α -L-arabinopyranoside], 16-benzoyl:** [107110-06-5]. *Glochidioside*C₄₈H₇₂O₁₅ M 889.088Constit. of *G. heyneanum*. Amorph. powder. [α]_D +42° (c, 1 in EtOH).Stocklin, W., *Helv. Chim. Acta*, 1968, **51**, 1235 (*isol*)Srivastava, R. *et al*, *Phytochemistry*, 1986, **25**, 2672; 1988, **27**, 3575 (*derivs*)Yoshikawa, K. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 852 (*Gymnemic acid VII*)

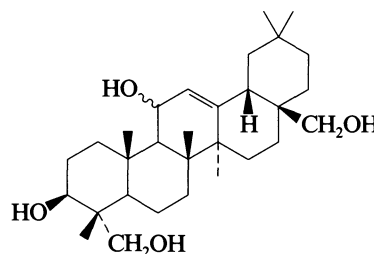
12-Oleanene-3,6,16,28-tetrol

O-10028

C₃₀H₅₀O₄ M 474.723**(3 β ,6 β ,16 α)-form** [149471-15-8]*Macrophylligenin*Sapogenin from *Primula macrophylla*.**16-Ac: Macrophylligenin acetate**C₃₂H₅₂O₅ M 516.760Sapogenin from *P. macrophylla*.**3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside]:** [149474-93-1]. *Macrophyllicin*C₅₄H₈₈O₂₄ M 1121.275Constit. of *P. macrophylla*. Needles (MeOH). Mp 313-314°. [α]_D²⁵ -22° (c, 0.366 in MeOH).**3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside], 16-Ac: *Macrophyllicin I***Constit. of *P. macrophylla*. Cryst. Mp 314-315°. [α]_D²⁷ -9° (c, 0.4 in MeOH).Ahmad, V.U. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1543, 1580 (*isol*, *pmr*, *cmr*)

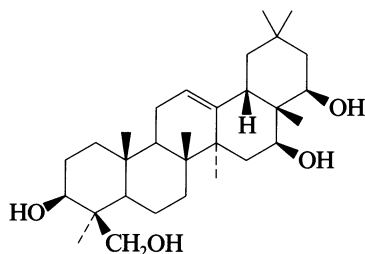
12-Oleanene-3,11,23,28-tetrol

O-10029

C₃₀H₅₀O₄ M 474.723**(3 β ,11 ξ)-form****11-Me ether, 3-O-[α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 3)-[β -D-glucopyranosyl-(1 \rightarrow 2)]- β -D-glucuronopyranoside]:** [151283-37-3]. *Verbascosaponin A*C₅₅H₉₂O₂₂ M 1105.319

Constit. of *Verbascum phlomoides*. Possible artifact.

Schröder, H. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 413 (*isol*, *pmr*, *cmr*)

12-Oleanene-3,16,22,24-tetrol**O-10030**

$C_{30}H_{50}O_4$ M 474.723

(3 β ,16 β ,22 β)-form

Junceogenol

Sapogenin from *Spartium junceum*.

3-O- $[\beta$ -D-Glucopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranoside]:

Junceoside

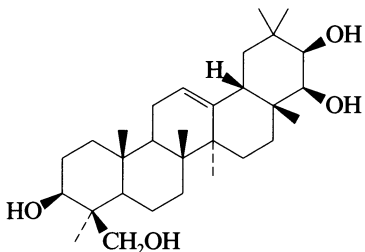
$C_{42}H_{70}O_{13}$ M 783.007

Constit. of *S. junceum*. $[\alpha]_D^{20}$ -14.2° (c, 0.57 in $CHCl_3$).

Bilia, A.R. *et al*, *Phytochemistry*, 1993, **34**, 847 (*isol*, *pmr*, *cmr*)

12-Oleanene-3,21,22,24-tetrol**O-10031**

Updated Entry replacing O-00362



$C_{30}H_{50}O_4$ M 474.723

(3 β ,21 β ,22 β)-form [508-01-0] Soyasapogenol A. Soyasapogenol M_4

Constit. of soya bean saponin and from *Abrus cantoniensis*. Cryst. (MeOH). Mp 308-312°. $[\alpha]_D^{21}$ +102.3° ($CHCl_3$).

3-O- $[\beta$ -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosiduronide], 22-O- $[\beta$ -D-glucopyranosyl-(1 \rightarrow 3)- α -L-arabinopyranoside]: [78693-94-4]. **Soyasaponin A₁**

$C_{59}H_{96}O_{29}$ M 1269.390

Isol. from soybean (*Glycine max*). Fine cryst. + 4H₂O (MeOH aq.). Mp 240-242°. $[\alpha]_D^{26}$ +23.2° (c, 0.91 in MeOH).

3-O- $[\beta$ -D-Galactopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosiduronide], 22-O- $[\beta$ -D-glucopyranosyl-(1 \rightarrow 3)- α -L-arabinopyranoside]: [78693-93-3]. **Soyasaponin A₂**

$C_{53}H_{86}O_{24}$ M 1107.248

Isol. from soybean (*G. max*). Fine cryst. + 3H₂O (MeOH aq.). Mp 231-232°. $[\alpha]_D^{26}$ +25.3° (c, 1 in MeOH).

3-O- $[\alpha$ -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 2)- β -glucopyranosiduronide]: [114077-04-2].

Soyasaponin A₃

$C_{48}H_{78}O_{19}$ M 959.133

Isol. from soybean (*G. max*). Glass.

3-O- $[\beta$ -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside], 22-O- $[\beta$ -D-glucopyranosyl-(1 \rightarrow 3)- α -L-arabinopyranoside]: [118194-13-1]. **Acetylsoyasaponin A₁**

$C_{67}H_{104}O_{33}$ M 1437.539

Constit. of *G. max*. Fine cryst. + 4H₂O (EtOH). Mp 263-265°. $[\alpha]_D^{16}$ +17.0° (c, 0.6 in MeOH).

3-O- $[\beta$ -D-Galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside], 22-O- $[\beta$ -D-glucopyranosyl-(1 \rightarrow 3)- α -L-arabinopyranoside]: [117230-32-7]. **Acetylsoyasaponin A₂**

$C_{61}H_{94}O_{28}$ M 1275.397

Constit. of *G. max*. Fine cryst. + 3H₂O (EtOH). Mp 276-278°. $[\alpha]_D^{18}$ +18.8° (c, 0.3 in MeOH).

3-O- $[\alpha$ -L-Arabinopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside], 22-O- $[\beta$ -D-glucopyranosyl-(1 \rightarrow 3)- α -L-arabinopyranoside]: [117210-16-9]. **Acetylsoyasaponin A₃**

$C_{60}H_{92}O_{27}$ M 1245.371

Constit. of *G. max*. Fine cryst. + 5H₂O (EtOH). Mp 257-260°. $[\alpha]_D^{20}$ +23.6° (c, 0.5 in MeOH).

3-O- $[\beta$ -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside], 22-O- $[\beta$ -D-glucopyranosyl-(1 \rightarrow 3)- α -L-arabinopyranoside]: [117230-33-8]. **Acetylsoyasaponin A₄**

$C_{64}H_{100}O_{31}$ M 1365.475

Constit. of *G. max*. Fine cryst. + 2H₂O (EtOH). Mp 255-258°. $[\alpha]_D^{16}$ +13.5° (c, 0.1 in MeOH).

3-O- $[\beta$ -D-Galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside], 22-O- $[\beta$ -D-glucopyranosyl-(1 \rightarrow 3)- α -L-arabinopyranoside]: [117230-34-9]. **Acetylsoyasaponin A₅**

$C_{58}H_{90}O_{26}$ M 1203.333

Constit. of *G. max*. Fine cryst. + 4H₂O (EtOH). Mp 260-264°. $[\alpha]_D^{16}$ +9.7° (c, 0.7 in MeOH).

3-O- $[\alpha$ -L-Arabinopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside], 22-O- $[\beta$ -D-glucopyranosyl-(1 \rightarrow 3)- α -L-arabinopyranoside]: [117230-35-0]. **Acetylsoyasaponin A₆**

$C_{57}H_{88}O_{25}$ M 1173.307

Constit. of *G. max*. Fine cryst. + 3H₂O (EtOH). Mp 240-244°. $[\alpha]_D^{16}$ +14.2° (c, 0.2 in MeOH).

Smith, H.M. *et al*, *Tetrahedron*, 1958, **4**, 111 (*isol*)

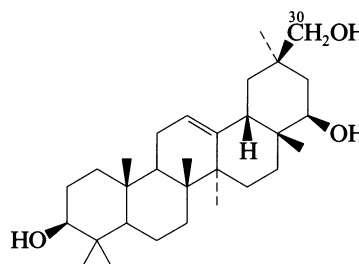
Kitagawa, I. *et al*, *Chem. Pharm. Bull.*, 1982, **30**, 2294 (*struct*)

Kitagawa, I. *et al*, *Chem. Pharm. Bull.*, 1985, **33**, 589, 1069; 1988, **36**, 2819, 2829 (*Soyasaponins*)

Curl, C.L. *et al*, *J. Nat. Prod. (Lloydia)*, 1988, **51**, 122 (*Soyasaponin A₃*)

12-Oleanene-3,22,30-triol**O-10032**

Updated Entry replacing D-02455



$C_{30}H_{50}O_3$ M 458.723

(3 β ,22 β)-form [10379-65-4] Abrisapogenol D

Constit. of *Abrus cantoniensis*. Needles. Mp 290-291°.

$[\alpha]_D$ +76.9° (Py).

30-Carboxylic acid: 3,22-Dihydroxy-12-oleanen-30-oic acid

$C_{30}H_{48}O_4$ M 472.707

Powder (as 22-Ac). $[\alpha]_D^{23}$ +72° ($CHCl_3$) (22-Ac).

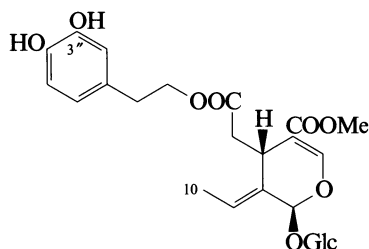
- 30-Carboxylic acid, 22-Ac, 3-O-[α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-glucuronopyranosyl(1 \rightarrow 2)-glucuronate]: [118536-87-1]. **Licoricesaponin D3**
 $C_{50}H_{76}O_{21}$ M 1013.138
 Isol. from roots of *Glycyrrhiza uralensis*. Powder. $[\alpha]_D^{20}$ -5° (MeOH).
- 30-Carboxylic acid, 30 \rightarrow 22 lactone: [10379-62-1]. 3 β -Hydroxy-12-oleanen-30,22 β -olide. **Desoxoglabrolide**
 $C_{30}H_{46}O_3$ M 454.692
 Saponin from *G. glabra*. Cryst. (2-propanol). Mp 274-278°. $[\alpha]_D^{25}$ $+59.6^\circ$ (c, 0.52 in $CHCl_3$).
- 30-Carboxylic acid, 30 \rightarrow 22-lactone, 3-O-[α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-glucuronopyranosyl(1 \rightarrow 2)- β -D-glucuronopyranoside]: **Licoricesaponin F3**
 $C_{48}H_{72}O_{19}$ M 953.085
 Constit. of *G. uralensis*. Mp 215-217°. $[\alpha]_D$ -20° (MeOH).
- 30-Carboxylic acid, 22-ketone: 3-Hydroxy-22-oxo-12-oleanen-30-oic acid. **Subprogenin C**
 $C_{30}H_{46}O_4$ M 470.691
 Constit. of *Sophora subprostrata*. Cryst. (as Me ester). Mp 150-152° (Me ester). $[\alpha]_D$ $+38.2^\circ$ (c, 0.2 in MeOH/ $CHCl_3$) (Me ester).
- [118525-50-1]
 Russo, G., *Corsi. Semin. Chim.*, 1968, **11**, 20 (*Desoxoglabrolide*)
 Kitagawa, I. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 3710; 1991, **39**, 244 (*Licoricesaponin D3*, *Licoricesaponin F3*)
 Takeshita, T. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 846; 1991, **39**, 1908 (*Abrispogonol D*, *Subprogenin C*)

Oleuropein

O-10033

Updated Entry replacing O-00393

[32619-42-4]



Absolute configuration

- $C_{25}H_{32}O_{13}$ M 540.520
 Bitter principle of olives, *Olea europaea*, isol. also from *Fraxina japonicus*. Cryst. (EtOAc). Mp 89-91°. $[\alpha]_D^{26}$ -168° (c, 0.67 in MeOH). Artifact.
- Tetra-Ac: Cryst. (EtOH). Mp 58-59°. $[\alpha]_D$ -62° (c, 1 in AcOH).
- 3'-Deoxy: [35897-92-8]. **Ligustroside**. **Ligustroside**
 $C_{25}H_{32}O_{12}$ M 524.521
 Found in *Ligustrum obtusifolium*, *F. griffithi* and *F. excelsior*. Noncryst. $[\alpha]_D$ -110.7° (c, 1 in EtOH), $[\alpha]_D^{20}$ -181.1° (c, 0.6 in MeOH).
- 10-Hydroxy: [84638-44-8]. **10-Hydroxyoleuropein**
 $C_{25}H_{32}O_{14}$ M 556.519
 Constit. of *L. japonicum*. Powder. $[\alpha]_D^{20}$ -153.7° (c, 0.38 in MeOH).
- 10-Hydroxy, 3'-deoxy: [35897-94-0]. **10-Hydroxyligustroside**
 $C_{25}H_{32}O_{13}$ M 540.520
 Constit. of *L. obtusifolium*. Noncryst. $[\alpha]_D$ -156.8° (c, 1.02 in EtOH).
- 10-Acetoxy: **10-Acetoxyoleuropein**
 $C_{27}H_{34}O_{15}$ M 598.557
 Constit. of *Osmanthus fragrans*. Powder. $[\alpha]_D^{21}$ -191° (c, 1.1 in MeOH).
- 10-Acetoxy, 3'-deoxy: [57799-95-8]. **10-Acetoxyligustroside**
 $C_{27}H_{34}O_{14}$ M 582.557

Constit. of *O. fragrans*. Powder. $[\alpha]_D^{18}$ -143.9° (c, 1 in MeOH).

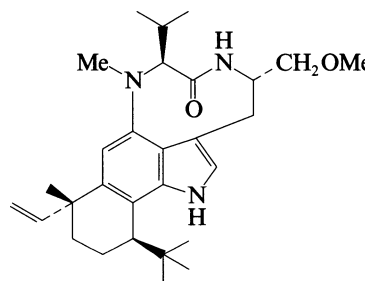
- 10-Hydroxy, 4'- β -D-glucopyranoside: **Multiroside**
 $C_{31}H_{42}O_{19}$ M 718.661
 Isol. from *Jasminum multiflorum*. Amorph. powder. $[\alpha]_D$ -108.6° (c 1 in MeOH).
- 10-Hydroxy, 3'-deoxy, 2'- β -D-glucopyranosyl: [97695-01-7]. **Hiragilide**
 $C_{31}H_{42}O_{18}$ M 702.662
 Constit. of *Osmanthus ilicifolius*. Cryst. (as nona-Ac). Mp 70-75° (nona-Ac). $[\alpha]_D$ -153.8° ($CHCl_3$) (nona-Ac).
 Conts. 2-glucosylglucosyl residue.
- 6'-O- β -D-Glucopyranosyl: **Angustifolioside A**
 $C_{31}H_{42}O_{18}$ M 702.662
 Constit. of *Fraxinus angustifolia*. Amorph. powder.
- 6'-O- β -D-Glucopyranosyl, 3'-deoxy: **Angustifolioside B**
 $C_{31}H_{42}O_{17}$ M 686.663
 Constit. of *F. angustifolia*. Amorph. powder.

- Shasha, B. *et al*, *J. Org. Chem.*, 1961, **26**, 1948 (*isol*)
 Panizzi, L. *et al*, *Gazz. Chim. Ital.*, 1965, **95**, 1279 (*isol*)
 Asaka, Y. *et al*, *Chem. Lett.*, 1972, 141 (*isol, struct*)
 Inouye, H. *et al*, *Chem. Pharm. Bull.*, 1974, **22**, 676 (*biosynth*)
 Inouye, H. *et al*, *Tetrahedron*, 1974, **30**, 201 (*abs config*)
 Inouye, H. *et al*, *Phytochemistry*, 1975, **14**, 304, 2029 (*isol, 10-Acetoxyoleuropein, 10-Acetoxyligustroside*)
 Inouye, H. *et al*, *J. Chromatogr.*, 1976, **118**, 201 (*ms*)
 Sutarjadi, M.T.M. *et al*, *Phytochemistry*, 1978, **17**, 564 (*Ligustroside*)
 Inoue, K. *et al*, *Phytochemistry*, 1982, **21**, 2305 (*deriv*)
 Kikuchi, M. *et al*, *CA*, 1985, **103**, 147026 (*isol, pmr, cmr*)
 Shen, Y.-C. *et al*, *Phytochemistry*, 1990, **29**, 2903, 2905 (*Multiroside, Ligustroside*)
 Bianco, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 760 (*synth*)
 Damtoft, S. *et al*, *Phytochemistry*, 1992, **31**, 4197 (*Oleuropein, Ligustroside, pmr*)
 Çaliş, .I. *et al*, *Phytochemistry*, 1993, **33**, 1453 (*Angustifoliosides*)
 Damtoft, S. *et al*, *Phytochemistry*, 1993, **34**, 1291 (*biosynth*)

Olivoretin E

O-10034

[110187-21-8]

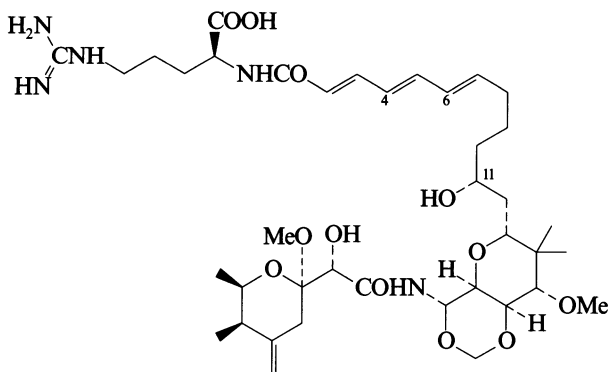


- $C_{29}H_{43}N_3O_2$ M 465.678
 Prod. by *Streptoverticillium olivoreticuli*. Tumour promotor. Prisms. Mp 266-269° dec. Similar to Teleocidin B1, T-00180.
- Sakai, S. *et al*, *Chem. Pharm. Bull.*, 1986, **34**, 4883 (*isol, struct*)
 Irie, K. *et al*, *Tetrahedron*, 1990, **46**, 2773 (*biosynth*)

Onnamide A

O-10035

Updated Entry replacing O-00432
[115204-07-4]



$C_{39}H_{63}N_5O_{12}$ M 793.953

Constit. of the sponge *Theonella* sp. Antitumour and antiviral agent. Pale yellow solid. $[\alpha]_D^{20} + 99.1^\circ$ (c, 5.5 in MeOH). Related to Mycalamides.

6,7-Dihydro: 6,7-Dihydroonnamide A

$C_{39}H_{65}N_5O_{12}$ M 795.969

Constit. of the Okinawan marine sponge *Theonella* sp.

► Exhibits cytotoxicity.

6,7-Dihydro, 11-oxo: 6,7-Dihydro-11-oxoonnamide A

$C_{39}H_{63}N_5O_{12}$ M 793.953

Isol. from *T.* sp. Solid. $[\alpha]_D^{24} + 39^\circ$ (c, 0.42 in MeOH).

► Exhibits cytotoxicity.

11-Oxo: 11-Oxoonnamide A

$C_{39}H_{61}N_5O_{12}$ M 791.937

Isol. from *T.* sp. Solid. $[\alpha]_D^{23} + 90^\circ$ (c, 0.24 in MeOH).

► Exhibits cytotoxicity.

(4Z)-Isomer: 4Z-Onnamide A

$C_{39}H_{63}N_5O_{12}$ M 793.953

Isol. from *T.* sp. Solid. $[\alpha]_D^{23} + 81^\circ$ (c, 0.59 in MeOH).

► Exhibits cytotoxicity.

Sakemi, S. *et al.*, *J. Am. Chem. Soc.*, 1988, **110**, 4851 (*isol, uv, pmr, cmr*)

Hong, C.Y. *et al.*, *J. Am. Chem. Soc.*, 1991, **113**, 9693 (*synth*)

Matsunaga, S. *et al.*, *Tetrahedron*, 1992, **48**, 8369 (*6,7-*

Dihydroonnamide A)

Kobayashi, J. *et al.*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 976 (*6,7-*

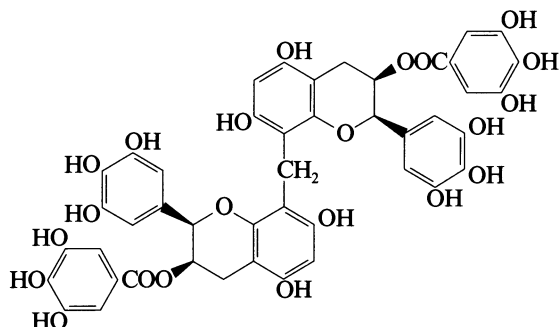
Dihydro-11-oxoonnamide A, 11-Oxoonnamide A, 4Z-Onnamide

A)

Oolonghomobisflavan A

O-10036

[126737-60-8]



$C_{45}H_{36}O_{22}$ M 928.766

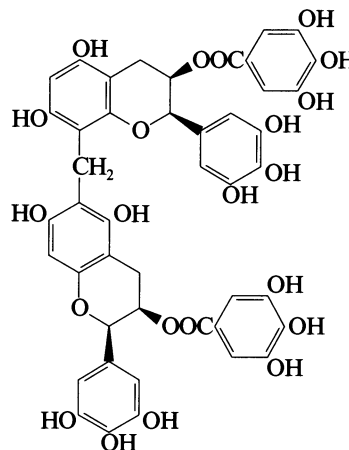
Constit. of oolong tea. Tan powder + $4H_2O$. $[\alpha]_D^{26} - 271.0^\circ$ (c, 1 in Me_2CO).

Hashimoto, F. *et al.*, *Chem. Pharm. Bull.*, 1989, **37**, 3255 (*isol, struct*)

Oolonghomobisflavan B

O-10037

[126715-88-6]



$C_{45}H_{36}O_{22}$ M 928.766

Isol. from oolong tea. Tan powder + $3H_2O$. $[\alpha]_D^{26} - 205.0^\circ$ (c, 1 in Me_2CO).

Hashimoto, F. *et al.*, *Chem. Pharm. Bull.*, 1989, **37**, 3255 (*isol, struct*)

***Aedes aegypti* Oostatic hormone A**

O-10038

[128439-50-9]

H-Tyr-Asp-Pro-Ala-Pro-Pro-Pro-Pro-OH

$C_{51}H_{70}N_{10}O_{14}$ M 1047.173

Isol. from the ovaries of the mosquito *Aedes aegypti*.

Trypsin-modulating oostatic factor.

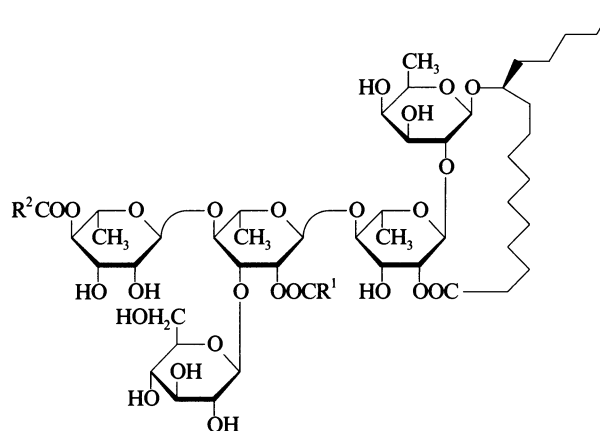
Borovsky, D. *et al.*, *ACS Symp. Ser.*, 1991, **453**, 133 (*isol, props*)

Kochansky, J., *CA*, 1992, **117**, 172060 (*synth*)

Operculin I

O-10039

[120552-53-6]



$R^1 = R^2 = -(CH_2)_{10}CH_3$

$C_{70}H_{124}O_{25}$ M 1365.735

Isol. from the roots of *Ipomoea operculata*. Needles (MeOH aq.). Mp 103-111° dec. $[\alpha]_D^{18} -24.0^\circ$ (c, 1 in MeOH).

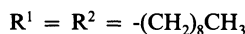
Ono, M. et al, *Chem. Pharm. Bull.*, 1990, **38**, 2986 (isol, pmr, ms)

Operculin II

O-10040

[120583-61-1]

As Operculin I, O-10039 with



$C_{66}H_{116}O_{25}$ M 1309.627

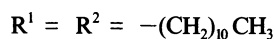
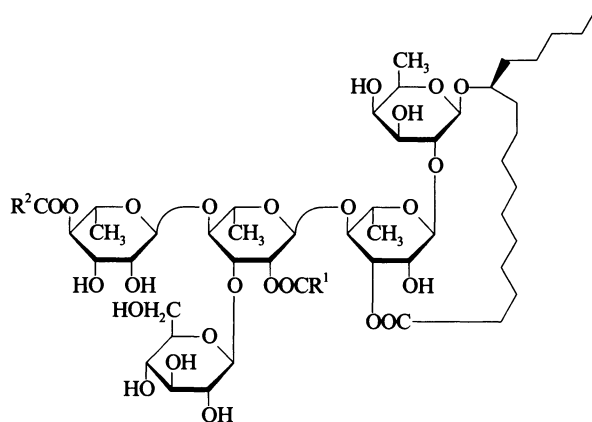
Isol. from the roots of *Ipomoea operculata*. Needles (MeOH aq.). Mp 120-128° dec. $[\alpha]_D^{21} -23.5^\circ$ (c, 2.8 in MeOH). The structs. of Operculins III and IV have not yet been detd.

Ono, M. et al, *Chem. Pharm. Bull.*, 1990, **38**, 2986 (isol, pmr, ms)

Operculin V

O-10041

[132625-00-4]



$C_{70}H_{124}O_{25}$ M 1365.735

Isol. from the roots of *Ipomoea operculata*. Powder (MeOH aq.). Mp 108-111° dec. $[\alpha]_D^{18} -53.8^\circ$ (c, 2.6 in MeOH).

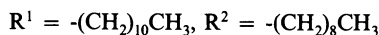
Ono, M. et al, *Chem. Pharm. Bull.*, 1990, **38**, 2986 (isol, pmr, ms)

Operculin VII

O-10042

[133019-98-4]

As Operculin I, O-10039 with



$C_{68}H_{120}O_{25}$ M 1337.681

Isol. from the roots of *Ipomoea operculata*. Powder (MeOH aq.). Mp 104-111°. $[\alpha]_D^{23} -24.3^\circ$ (c, 1.3 in MeOH).

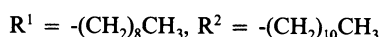
Ono, M. et al, *Chem. Pharm. Bull.*, 1990, **38**, 2986 (isol, pmr, ms)

Operculin VIII

O-10043

[132625-01-5]

As Operculin I, O-10039 with



$C_{68}H_{120}O_{25}$ M 1337.681

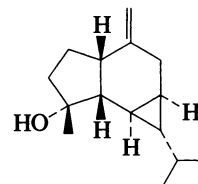
Isol. from the roots of *Ipomoea operculata*. Powder (MeOH aq.). Mp 105-112°. $[\alpha]_D^{23} -27.0^\circ$ (c, 1 in MeOH).

Ono, M. et al, *Chem. Pharm. Bull.*, 1990, **38**, 2986 (isol, pmr, ms)

Oreodaphnenol

O-10044

[118891-87-5]



$C_{15}H_{24}O$ M 220.354

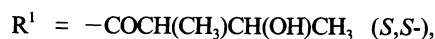
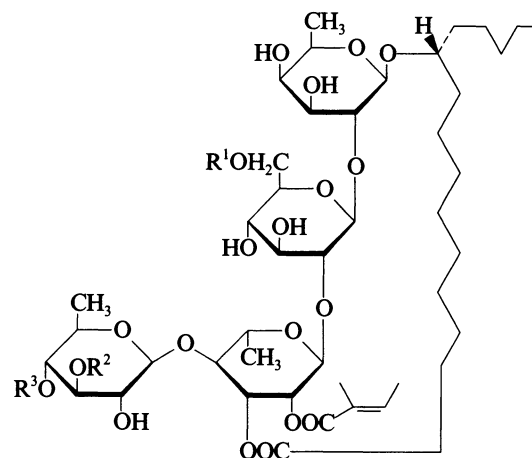
Constit. of *Oreodaphne porosa*. Oil. $[\alpha]_D -43^\circ$ (c, 0.5 in C_6H_6).

Weyerstahl, P. et al, *Justus Liebigs Ann. Chem.*, 1989, 307 (isol, pmr)

Orizabin I

O-10045

[101394-99-4]



$C_{55}H_{92}O_{23}$ M 1121.318

Isol. from the root of *Ipomoea orizabensis*. Needles + $2H_2O$ (hexane/ Me_2CO). Mp 115-121° dec. $[\alpha]_D -5.5^\circ$ (c, 1.3 in MeOH).

Noda, N. et al, *Tetrahedron*, 1987, **43**, 3889 (isol, pmr, ms)

Orizabin II

O-10046

[101395-00-0]

As Orizabin I, O-10045 with



$C_{54}H_{90}O_{23}$ M 1107.291

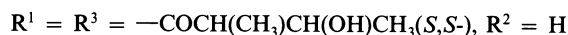
Isol. from the roots of *Ipomoea orizabensis*. Needles + $1H_2O$ (hexane/ Me_2CO). Mp 114-119° dec. $[\alpha]_D -9.7^\circ$ (c, 1 in MeOH).

Noda, N. et al, *Tetrahedron*, 1987, **43**, 3889 (isol, pmr, ms)

Orizabin III**O-10047**

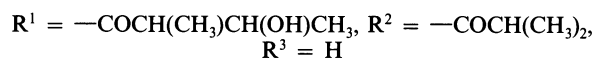
[101395-01-1]

As Orizabin I, O-10045 with

C₅₅H₉₂O₂₄ M 1137.317Isol. from the roots of *Ipomoea orizabensis*. Needles + 1H₂O (hexane/Me₂CO). Mp 118-123° dec. [α]_D²⁰ -13.3° (c, 1.1 in MeOH).Noda, N. *et al*, *Tetrahedron*, 1987, **43**, 3889 (*isol*, *pmr*, *ms*)**Orizabin IV****O-10048**

[101394-98-3]

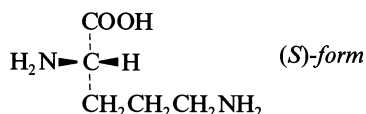
As Orizabin I, O-10045 with

C₅₄H₉₀O₂₃ M 1107.291Isol. from the roots of *Ipomoea orizabensis*. Needles + 1H₂O (hexane/Me₂CO). Mp 114-119° dec. [α]_D²⁰ -5.2° (c, 0.9 in MeOH).Noda, N. *et al*, *Tetrahedron*, 1987, **43**, 3889 (*isol*, *pmr*, *ms*)**Ornithine****O-10049**

Updated Entry replacing O-00509

2,5-Diaminopentanoic acid, 9CI. 5-Aminonorvaline

[7006-33-9]

C₅H₁₂N₂O₂ M 132.162Other *N*-protected derivs. useful in peptide synth. are listed elsewhere.**(R)-form***D*-form

Residue present in Gramicidins.

(S)-form [70-26-8]*L*-formComponent of proteins, esp. of fungi; found in small amts. in plants in free state. Used in treatment of hyperammonaemia. Sol. H₂O, EtOH, spar. sol. Et₂O. Mp 140°. [α]_D²⁵ +11.5°.*B*,2*HCl*: Mp 230-232° dec. [α]_D²⁵ +17° (H₂O).*N*^α-Benzoyloxycarbonyl:C₁₃H₁₈N₂O₄ M 266.296Mp 209-210°. [α]_D²⁰ -8.4° (5*M* HCl).*N*^δ-Benzoyloxycarbonyl:C₁₃H₁₈N₂O₄ M 266.296

Mp 254-255°.

N^α,*N*^δ-Bis(benzoyloxycarbonyl):C₂₁H₂₄N₂O₆ M 400.430Mp 112-114°. [α]_D²⁰ -4.0° (c, 3 in MeOH).*N*^α,*N*^δ-Bis(benzoyloxycarbonyl), *Me* ester:C₂₂H₂₆N₂O₆ M 414.457Cryst. (CHCl₃/pet. ether). Mp 71-72°.*N*^α-*Ac*:C₇H₁₄N₂O₃ M 174.199Intermed. in biosynth. of ornithine from Glutamic acid, G-00504 in bacteria. Mp 226-227°. [α]_D²⁵ +6.5° (c, 5 in H₂O).*N*^δ-*Ac*: AcetylornithineC₇H₁₄N₂O₃ M 174.199Isol. from various plants, e.g. *Asplenium* spp. and grasses. Plates (MeOH). Mp 266° (229°) dec. [α]_D²⁴ +13.1° (H₂O).*N*^α,*N*^δ-*Di*-*Ac*: [39825-23-5]. *N*²,*N*⁵-Diacetylornithine, 9CI.*Bisorcic*, INNC₉H₁₆N₂O₄ M 216.236

Hepatoprotective agent, psychostimulant.

N^δ-Benzoyl: [15647-43-5]. *N*⁵-BenzoylornithineC₁₂H₁₆N₂O₃ M 236.270Constit. of the seeds of *Vicia pseudo-orobus*. Cryst.(H₂O). Mp 205-213° dec. [α]_D²⁰ +22.1° (c, 1 in 3*M* HCl).*N*^α,*N*^δ-Dibenzoyl: [495-46-5]. Ornithuric acidC₁₉H₂₀N₂O₄ M 340.378Needles or plates (EtOH). Spar. sol. H₂O, EtOAc, hot EtOH, insol. Et₂O. Mp 188-189°. [α]_D²⁰ +8.5° (EtOH aq.).*N*^α,*N*^δ-Dibenzoyl, *Me* ether:C₂₀H₂₂N₂O₄ M 354.405

Mp 145.6°.

N^α,*N*^δ-Dibenzoyl, *Et* ester:C₂₁H₂₄N₂O₄ M 368.432

Mp 155°.

N^δ-*Me*:C₆H₁₄N₂O₂ M 146.189Present in *Atropa belladonna*. Alkaloid precursor.*N*-Hexa-*Me*: *Miokinine*C₁₁H₂₅N₂O₂⁺ M 217.331 (ion)

Isol. from mammalian muscle.

N^δ-*Tri*-*Me*: [66101-16-4]. 4-Amino-4-carboxy-*N,N,N*-trimethyl-1-butanaminium. *N*⁵-TrimethylornithineC₈H₁₈N₂O₂ M 174.242Constit. of the red alga *Vidalia volubilis*. Zwitterionic.

Config. of nat. prod. not confirmed.

(±)-*form*p*K*_{a2} 8.98; p*K*_{a3} 10.73 (25°, 0.1*M* KNO₃), p*K*_{a1} 1.71; p*K*_{a2} 8.69; p*K*_{a3} 10.76 (25°).*B*,*HCl*: Mp 225°.*B*,2*HCl*: Mp 230-232° dec.*N*^δ-Benzoyl:C₁₂H₁₆N₂O₃ M 236.270

Mp 285-288°.

N^δ-Benzoyl, *N*^α-(4-methylbenzenesulfonyl): Needles (EtOH aq.). Mp 185°.*N*^α,*N*^δ-Dibenzoyl: Needles (EtOH). Mp 187-188°.*N*^δ-*Me*; *B*,*HCl*: Cryst. (EtOH aq.). Mp 242-243°.

[15647-44-6]

Karrer, P. *et al*, *Helv. Chim. Acta*, 1926, **9**, 301.Hunter, A., *Biochem. J.*, 1939, **33**, 29.Albertson, N.F. *et al*, *J. Am. Chem. Soc.*, 1945, **67**, 2043.Synge, R.C.M., *Biochem. J.*, 1948, **42**, 99.*Biochem. Prep.*, 1953, **3**, 96.Gaudry, R., *Can. J. Chem.*, 1953, **31**, 1060.Fowden, L., *Nature (London)*, 1958, **182**, 406 (*occur*, acetylornithine)Thompson, J.F. *et al*, *Arch. Biochem. Biophys.*, 1962, **99**, 326.Katzin, L.I. *et al*, *J. Am. Chem. Soc.*, 1964, **86**, 1655 (*ora*)Lipson, M.A. *et al*, *J. Org. Chem.*, 1964, **29**, 2392.Schroder, E. *et al*, *Justus Liebigs Ann. Chem.*, 1964, **679**, 221.Nakamura, A., *Nippon Kagaku Zasshi*, 1965, **86**, 780 (*pmr*)Gilbertson, T.J. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 7085 (*synth*, *deriv*)*Ger. Pat.*, 2 219 874, (1973); *CA*, **78**, 98010t (*Bisorcic*)Paik, W.K. *et al*, *Biochem. Med.*, 1978, **19**, 39 (*N*⁵-

Trimethylornithine)

Hedges, S.H. *et al*, *Phytochemistry*, 1981, **20**, 2064 (*isol*, *deriv*)Hatanaka, S. *et al*, *Phytochemistry*, 1981, **20**, 2291 (*N*⁵-

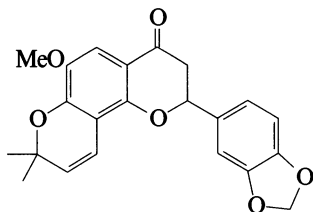
Benzoylornithine)

Martindale, The Extra Pharmacopoeia, 28th/29th Ed., Pharmaceutical Press, London, 1982/1989, 608.

Amino, Y. *et al*, *Bull. Chem. Soc. Jpn.*, 1991, **64**, 613 (*synth*)
 Patti, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 53 (*N⁵-Trimethylornithine*)

Ovalichromene A†**O-10050**

[62868-04-6]



$C_{22}H_{20}O_6$ M 380.396
 Easily confused with Ovalichromene†, O-00572. Isol. from seeds of *Milletia ovalifolia*. Needles. Mp 165°. $[\alpha]_D^{25}$ –66.3°.

Demethoxy: [62868-06-8]. **Ovalichromene B**

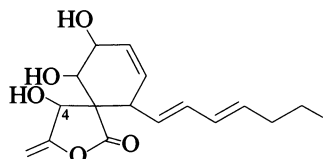
$C_{21}H_{18}O_5$ M 350.370
 From *M. ovalifolia*. Mp 182°. $[\alpha]_D^{25}$ –91.6°.

Gupta, R.K. *et al*, *Phytochemistry*, 1976, **15**, 2011.**Oxaspirol A****O-10051**

Updated Entry replacing O-00592

6-(1,3-Heptadienyl)-4,9,10-trihydroxy-3-methylene-2-oxaspiro[4,5]dec-7-en-1-one, 9C1

[98873-84-8]



$C_{17}H_{22}O_5$ M 306.358
 Isol. from *Rhodotorula glutinis*. Shows weak antibacterial activity. Powder. Mp 105-107°. $[\alpha]_D^{15}$ –275° (c, 0.4 in MeOH). Configurations of these compds. is not known.

Stereoisomer(?): [114029-71-9]. **Oxaspirol C**

$C_{17}H_{22}O_5$ M 306.358
 Isol. from *R. glutinis*. $[\alpha]_D^{20}$ –430° (c, 0.8 in MeOH).

4-Ketone, stereoisomer(?): [113982-29-9]. **Oxaspirol B**

$C_{17}H_{20}O_5$ M 304.342
 Isol. from *R. glutinis*. $[\alpha]_D^{20}$ –273° (c, 0.8 in MeOH).

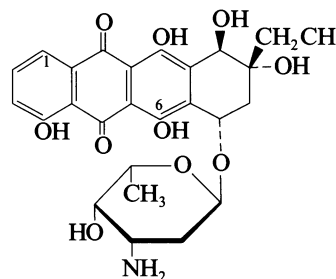
Doi, J. *et al*, *Agric. Biol. Chem.*, 1985, **49**, 2247 (*isol, struct*)
Japan. Pat., 87 135 469, (1987); *CA*, **108**, 166103 (*Oxaspirol B*)
Japan. Pat., 87 164 679, (1987); *CA*, **108**, 185264 (*Oxaspirol C*)

Oxaunomycin**O-10052**

Updated Entry replacing O-00594

7-O-(α -L-Daunosaminyl)- β -rhodomycinone. Anthracycline R 20X2. Antibiotic R 20X2. R 20X2. D 788-7. Antibiotic D 788-7

[105615-58-5]



$C_{26}H_{29}NO_{10}$ M 515.516
 Anthracycline antibiotic. Prod. by *Streptomyces* mutant strain and *Actinomadura roseoviolacea*. Potent antileukaemic agent. Deep-red powder (CHCl₂/hexane). Mp 185-187° dec. $[\alpha]_D^{23}$ +192° (c, 0.0198 in CHCl₃).

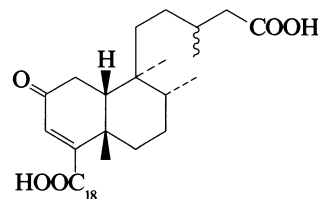
B.HCl: [128240-71-1].Mp 209-211°. $[\alpha]_D^{25}$ +100° (c, 0.013 in EtOH).1-Hydroxy: **1-Hydroxyoxaunomycin**

$C_{26}H_{29}NO_{11}$ M 531.515
 Prod. by a *S. sp.* blocked mutant strain. Red-violet powder. Mp 249-253°. $[\alpha]_D^{23}$ +398° (c, 0.004 in CHCl₃).

6-Deoxy: **6-Deoxyoxaunomycin**

$C_{26}H_{29}NO_9$ M 499.516
 Prod. by a *S. sp.* blocked mutant strain. Yellow powder. Mp 144-147°. $[\alpha]_D^{23}$ +137° (c, 0.02 in CHCl₃).

[103782-06-5]

Yoshimoto, A. *et al*, *J. Antibiot.*, 1986, **39**, 902; 1992, **45**, 1609 (*isol, struct, props, derivs*)Nakajima, S. *et al*, *Tetrahedron Lett.*, 1989, **30**, 4857 (*synth*)Kita, Y. *et al*, *Tetrahedron Lett.*, 1990, **31**, 7173 (*synth*)Kita, Y. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 61 (*synth*)**2-Oxo-3-clerodene-15,18-dioic acid****O-10053** $C_{20}H_{30}O_5$ M 350.454**(ent-5 α ,13 ξ)-form**18-Me ester: [151200-95-2]. **Schistochilic acid C**

$C_{21}H_{32}O_5$ M 364.481
 Constit. of *Schistochila nobilis*. Oil. $[\alpha]_D^{22}$ –62° (c, 0.55 in CCl₄).

Tori, M. *et al*, *Phytochemistry*, 1993, **32**, 1229 (*isol, pmr, cmr*)**12-Oxo-10-dodecenoic acid****O-10054**

11-Formyl-10-undecenoic acid

 $C_{12}H_{20}O_3$ M 212.288**(E)-form** [65410-38-0]*Traumatin*. *Traumatic half aldehyde*

Arises in plants by cleavage of unsatd. C₁₈ fatty acids.
Found for example in *Thea sinensis* chloroplasts.
Wound hormone. Solid (cyclohexane/Et₂O). Mp 65-66°.

Me ester: [63024-87-3].

Amber liq. Mp 0.7°. Bp_{0.05} 109-111°.

(Z)-form

Me ester:

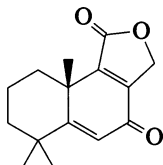
C₁₃H₂₂O₃ M 226.315

Bp_{0.23} 126-131°.

Kajiwara, T. *et al*, *Agric. Biol. Chem.*, 1977, **41**, 8 (*synth, bibl*)
Hatanaka, A. *et al*, *Phytochemistry*, 1977, **16**, 1828 (*isol*)
Bestmann, H.J. *et al*, *Tetrahedron Lett.*, 1977, 121 (*synth, pmr*)
Rakoff, H. *et al*, *Synth. Commun.*, 1979, **9**, 185 (*synth, pmr, ir*)
Bestmann, H.J. *et al*, *Justus Liebigs Ann. Chem.*, 1981, 1705 (*synth, ir, pmr*)
Gaede, B.J., *Org. Prep. Proced. Int.*, 1987, **19**, 461 (*synth, pmr, cmr, bibl*)

7-Oxo-5,8-drimadien-11,12-olide**7-Ketoisodrimenin-3-ene**

[151140-12-4]



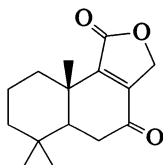
C₁₅H₁₈O₃ M 246.305

Constit. of *Porella cordeana*. Amorph. powder. [α]_D +1.5° (c, 0.84 in CHCl₃).

Harrigan, G.G. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 921 (*isol, pmr, cmr*)

7-Oxo-8-drimen-11,12-olide**7-Ketoisodrimenin**

[73036-54-1]



C₁₅H₂₀O₃ M 248.321

Constit. of *Porella cordeana*. Amorph. powder. [α]_D +40.8° (c, 0.6 in CHCl₃).

Harrigan, G.G. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 921 (*isol, pmr, cmr*)

5-Oxoheneicosanoic acid

[95007-77-5]



C₂₁H₄₀O₃ M 340.545

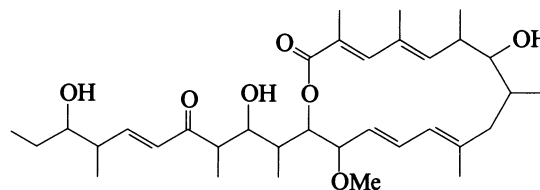
Constit. of the lichen *Usnea hirta*.

Solberg, Y., *J. Hattori Bot. Lab.*, 1987, **63**, 357; *CA*, **108**, 218962.

Oxohyrolidin

[98813-11-7]

O-10058



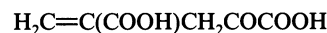
C₃₄H₅₄O₇ M 574.796

Prod. by *Streptomyces griseus* and *S. hygroscopicus*. Active against gram-positive bacteria, fungi and insects.
Microcryst. powder. Mp 93-95°. [α]_D²⁵ -90° (c, 0.2 in CHCl₃).

Kretschmer, A. *et al*, *Agric. Biol. Chem.*, 1985, **49**, 2509.

2-Oxo-4-methylenepentanedioic acid**α-Keto-γ-methyleneglutamic acid**

[55601-65-5]



C₆H₆O₅ M 158.110

Found in tulip *Tulipa gesneriana*, *Lilium* spp. and ground nut (*Arachis hypogaea*).

2,4-Dinitrophenylhydrazone: Mp 228° dec.

5-Amide:

C₆H₇NO₄ M 157.126

Found in *T. gesneriana*.

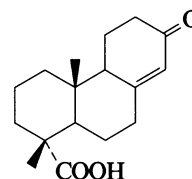
Towers, G.H.N. *et al*, *J. Am. Chem. Soc.*, 1954, **76**, 1959.

Fowden, L. *et al*, *Biochem. J.*, 1955, **59**, 228.

13-Oxo-8(14)-podocarpin-18-oic acid

[63976-69-2]

O-10060



C₁₇H₂₄O₃ M 276.375

Constit. of *Pinus banksiana* and *P. massoniana*.

Ikeda, T. *et al*, *Science (Washington, D.C.)*, 1977, **197**, 497.

Abad, A. *et al*, *Tetrahedron*, 1985, **41**, 4937 (*synth*)

Cheung, H.T.A. *et al*, *Tetrahedron*, 1993, **49**, 7903 (*isol, pmr, cmr*)

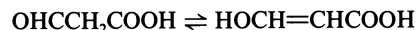
3-Oxopropanoic acid, 9CI

Malonaldehydic acid, 8CI. Formylacetic acid.

Aldehydoacetic acid. Formylethanoic acid

[926-61-4]

O-10061



C₃H₄O₃ M 88.063

Oxo-form

Pale-yellow oil. Dec. above 50°.

(E)-oxime: 3-(Hydroxyimino)propanoic acid.

Isonitrosopropanoic acid

C₃H₅NO₃ M 103.077

Mp 117-118° (114°).

Semicarbazone: Cryst. Mp 116° dec.

2,4-Dinitrophenylhydrazone: [23130-58-7].

Cryst. (EtOH). Mp 160° dec.

Me ester: [63857-17-0].

$C_4H_6O_3$ M 102.090

Unstable, appears to be known only as derivs.

Me ester, semicarbazone: Cryst. (MeOH). Mp 163°.

Me ester, 2,4-dinitrophenylhydrazone: [1928-98-9].

Cryst. (EtOH). Mp 117°.

Me ester, di-Et acetal: Methyl 3,3-diethoxypropionate

$C_8H_{16}O_4$ M 176.212

Oily liq. Spar. sol. H_2O . Bp 193°, Bp₂₄ 95°.

Et ester, di-Et acetal: [10601-80-6]. *Ethyl 3,3-*

diethoxypropionate

$C_9H_{18}O_4$ M 190.239

Liq. Bp₁₅ 91-98°.

Et ester, semicarbazone: Cryst. Mp 147-148°.

Et ester, 2,4-dinitrophenylhydrazone: Cryst. (ligroin/EtOH).

Mp 158°.

Isopropyl ester:

$C_6H_{10}O_3$ M 130.143

Bp₈ 30-50°.

Isopropyl ester, semicarbazone: Cryst. (EtOAc). Mp 138-

141°.

tert-Butyl ester:

$C_7H_{12}O_3$ M 144.170

Bp₁₁ 35-60°.

tert-Butyl ester, semicarbazone: Cryst. (hexane/Me₂CO).

Mp 183-184°.

Benzyl ester:

$C_{10}H_{10}O_3$ M 178.187

Bp_{0.05} 75-85°.

Benzyl ester, semicarbazone: Cryst. (hexane/Me₂CO). Mp

147-149°.

(Z)-Acetyloxime:

$C_5H_7NO_4$ M 145.115

Mp 145°.

Enol-form

3-Hydroxy-2-propenoic acid. 3-Hydroxyacrylic acid

Constit. of seeds of *Vicia angustifolia*.

Me ester, O-benzoyl: Methyl 3-benzoyloxyacrylate

$C_{11}H_{10}O_4$ M 206.198

Cryst. Mp 38-40°.

Et ester, O-Ac: Ethyl 3-acetoxyacrylate

$C_7H_{10}O_4$ M 158.154

Oil. Bp₁₈ 94-97°.

[16506-98-2, 16544-46-0]

Wohl, A. *et al*, *Ber.*, 1900, **33**, 2760 (*synth*)

Straus, F. *et al*, *Ber.*, 1926, **59**, 1681 (*synth*)

Rinkes, J., *Recl. Trav. Chim. Pays-Bas (J. R. Neth. Chem. Soc.)*,

1927, **46**, 268 (*synth*)

Thompson, J.E. *et al*, *Can. J. Biochem.*, 1967, **45**, 563 (*isol*)

Lovett, E.G. *et al*, *J. Org. Chem.*, 1977, **42**, 2574 (*synth, oximes*)

Syatkovskii, A.I. *et al*, *Zh. Org. Khim.*, 1977, **13**, 1569 (*struct*)

Kameoka, H. *et al*, *CA*, 1986, **104**, 17659k (*occur, enol-form*)

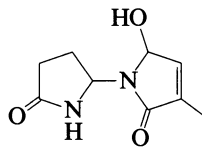
Sato, M. *et al*, *Synthesis*, 1986, 672 (*derivs*)

1-(2-Oxo-5-pyrrolidinyl)-5-hydroxy-3-methyl-3-pyrrolin-2-one

O-10062

1,5-Dihydro-5-hydroxy-3-methyl-1-(5-oxo-2-pyrrolidinyl)-2H-pyrrol-2-one, 9CI

[142750-27-4]



$C_9H_{12}N_2O_3$ M 196.205

Alkaloid from bulbs of *Lillium candidum* (Liliaceae). Mp 176-178°.

Eisenreichová, E. *et al*, *Phytochemistry*, 1992, **31**, 1084 (*isol, pmr, ms, struct*)

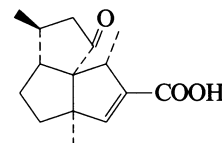
11-Oxo-5-silphiperfolen-13-oic acid

O-10063

Updated Entry replacing O-00816

Subergorgic acid

[97718-45-1]



$C_{15}H_{20}O_3$ M 248.321

Constit. of coral *Subergorgia suberosa*. Shows cardiotoxic props. Cryst. Mp 179-180°, Mp 200-202°.

[84607-62-5]

Wu, Z. *et al*, *CA*, 1983, **98**, 68827d (*isol*)

Groweiss, A. *et al*, *Tetrahedron Lett.*, 1985, **26**, 2379 (*cryst struct*)

Iwata, C. *et al*, *J. Org. Chem.*, 1988, **53**, 1623 (*synth*)

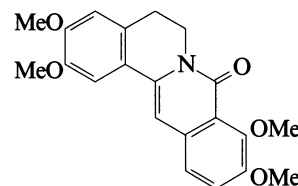
Wender, P.A. *et al*, *Tetrahedron Lett.*, 1990, **31**, 5429 (*synth*)

Paquette, L.A. *et al*, *J. Am. Chem. Soc.*, 1993, **115**, 49 (*synth*)

Oxypalmatine

O-10064

[19716-59-7]



$C_{21}H_{21}NO_5$ M 367.401

Alkaloid from stems of *Coscinium fenestratum* (Menispermaceae). Noncryst.

Pinho, P.M.M. *et al*, *Phytochemistry*, 1992, **31**, 1403 (*isol, ir, pmr, cmr, ms, struct*)

Oxypanamine

O-10065

Struct. unknown. Isol. from the seeds of *Ormosia panamensis*. Amorph. solid. Artifact of air-oxidn. of Panamine, P-00096. No def. Mp.

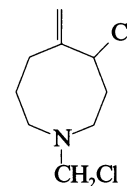
Lloyd, H.A. *et al*, *J. Am. Chem. Soc.*, 1958, **80**, 1506 (*isol*)

Moran, N.C. *et al*, *J. Pharmacol. Exp. Ther.*, 1959, **125**, 73 (*pharmacol*)

Oxypterine

O-10066

[143114-89-0]



$C_9H_{15}Cl_2N$ M 208.130

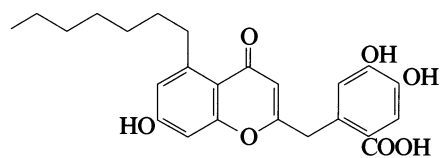
Alkaloid from the leaves and twigs of *Lotononis oxyptera* (Leguminosae). Off-white cryst. solid. Mp 127-129°. $[\alpha]_D^{22} +19.6^\circ$ (c, 2.6 in $CHCl_3$).

Verdoorn, G.H. *et al*, *Phytochemistry*, 1992, **31**, 1029 (*isol, ir, pmr, cmr, ms, struct*)

Oxysiphulin

O-10067

[74484-86-9]

 $C_{24}H_{26}O_7$ M 426.465Constit. of lichen *Siphula ceratites*. Needles (Me₂CO aq.).

Mp 176-178° dec.

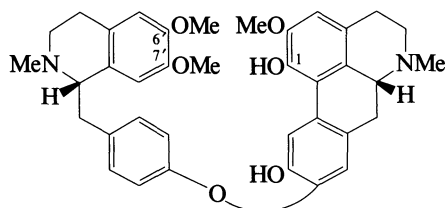
Shimada, S. *et al*, *Phytochemistry*, 1980, **19**, 467 (*isol*)

P

Pakistanine

Updated Entry replacing P-00048

[36506-69-1]



$C_{37}H_{40}N_2O_6$ M 608.733

Alkaloid from the roots of *Berberis baluchistanica*, *B. calliobotrys* and *B. orthobotrys*, and from the stems and above-ground wood of *B. empetrifolia*, and from *B. valdiviana* (Berberidaceae). Needles (EtOH). Mp 154-156°. $[\alpha]_D^{25} + 106^\circ$ (c, 0.57 in MeOH).

O^1 -Me: [36418-13-0]. **1-O-Methylpakistanine**

$C_{38}H_{42}N_2O_6$ M 622.760

Alkaloid from the roots of *B. calliobotrys* and *B. orthobotrys*, also obt. by rearr. of Pakistanamine, P-00047 (Berberidaceae). Cryst. (Et₂O). Mp 117°. $[\alpha]_D^{25} + 85^\circ$ (c, 0.40 in MeOH).

Di-Me ether: Formed together with an almost equal amount of 1-O-methylpakistanine by heating Pakistanamine (Pakistanamine, P-00047) at 70° in MeOH containing 3M HCl. Fine needles (Et₂O). Mp 139-141°. $[\alpha]_D^{25} + 66^\circ$ (c, 0.40 in MeOH).

O^7 -De-Me: [77754-91-7]. **Chitraline**

$C_{36}H_{38}N_2O_6$ M 594.706

Alkaloid from *B. empetrifolia* and roots of *B. calliobotrys* and *B. orthobotrys*. Also obt. by dienone-phenol rearr. of Valdiberine (see Pakistanamine, P-00047) (Berberidaceae). Amorph. $[\alpha]_D^{25} + 136^\circ$ (c, 0.172 in MeOH).

O^6 -De-Me: [84423-08-5]. **Porveniramine**

$C_{36}H_{38}N_2O_6$ M 594.706

Alkaloid from *B. empetrifolia*, also obt. by acid-cat. rearr. of Berbivaldine (see Pakistanamine, P-00047) (Berberidaceae). $[\alpha]_D^{25} + 40^\circ$ (c, 0.1 in MeOH).

O^7 -De-Me, O^1 -Me: [84423-09-6]. **1-O-Methylchitraline**

$C_{37}H_{40}N_2O_6$ M 608.733

Alkaloid from the stems of *B. darwinii* (Berberidaceae). Also obt. by acid rearr. of Patagonine (see under Pakistanamine, P-00047). Amorph. $[\alpha]_D^{25} + 29^\circ$ (c, 0.4 in MeOH).

N^2 -De-Me: [98618-06-5]. **2'-Norpakistanine**

$C_{36}H_{38}N_2O_6$ M 594.706

Alkaloid from the stems of *B. valdiviana* (Berberidaceae). Cryst. (MeOH). Mp 148°.

O^6 -De-Me, O^1 -Me: **Waziristanine. 1-O-Methylporveniramine**

$C_{37}H_{40}N_2O_6$ M 608.733

Alkaloid from root bark of *B. waziristanica* (Berberidaceae). $[\alpha]_D^{25} + 38^\circ$ (c, 0.06 in MeOH).

Shamma, M. et al, *J. Am. Chem. Soc.*, 1972, **94**, 1381; 1973, **95**, 5742 (isol, uw, ord, pmr, ms, struct, abs config)

Hussain, S.F. et al, *Tetrahedron Lett.*, 1980, **21**, 4573 (isol, uw, pmr)

Hussain, S.F. et al, *Heterocycles*, 1981, **15**, 191 (isol, uw, cd, pmr, ms, struct, Chitraline)

P-10001

Hussain, S.F. et al, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 274 (isol, uw, pmr)

Guinaudeau, H. et al, *J. Chem. Soc., Chem. Commun.*, 1982, 1122 (occur, cd, pmr, synth)

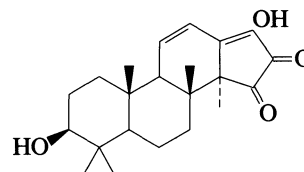
Fajardo, V. et al, *Tetrahedron Lett.*, 1982, **23**, 39 (occur)

Firdous, S. et al, *J. Nat. Prod. (Lloydia)*, 1985, **48**, 664 (*O*-Methylchitraline, 2'-Norpakistanine)

Atta-ur-Rahman, *Phytochemistry*, 1992, **31**, 1835 (Waziristanine)

Palbinone

P-10002



$C_{22}H_{30}O_4$ M 358.477

Constit. of *Paeonia albiflora*. Red needles. Mp 254-255°. $[\alpha]_D - 223.8^\circ$ (CHCl₃).

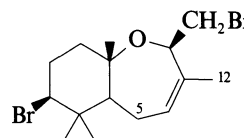
Kadota, S. et al, *Chem. Pharm. Bull.*, 1993, **41**, 487 (isol, pmr, cmr)

Palisadin B

P-10003

Updated Entry replacing P-00057

[77249-85-5]



$C_{15}H_{24}Br_2O$ M 380.162

Constit. of *Laurencia palisada*. Oil. $[\alpha]_D + 8.8^\circ$ (c, 1.3 in CHCl₃).

12-Bromo: 12-Bromopalisadin B

$C_{15}H_{23}Br_3O$ M 459.058

Constit. of *L. flexilis*. Oil. $[\alpha]_D^{25} - 16^\circ$ (c, 0.1 in CHCl₃).

12-Hydroxy: [77250-03-4]. 12-Hydroxypalisadin B

$C_{15}H_{24}Br_2O_2$ M 396.161

Constit. of *L. palisada*. Oil. $[\alpha]_D + 19.7^\circ$ (c, 0.4 in CHCl₃).

5β-Hydroxy: 5β-Hydroxypalisadin B

$C_{15}H_{24}Br_2O_2$ M 396.161

Constit. of *L. flexilis*. Oil. $[\alpha]_D^{25} - 12^\circ$ (c, 0.1 in CHCl₃).

5β-Acetoxy: [77250-04-5]. 5β-Acetoxyalisadin B

$C_{17}H_{26}Br_2O_3$ M 438.199

Constit. of *L. palisada*. Oil. $[\alpha]_D - 131.7^\circ$ (c, 0.6 in CHCl₃).

Paul, V.J. et al, *Tetrahedron Lett.*, 1980, 2787.

Tanaka, A. et al, *Agric. Biol. Chem.*, 1986, **50**, 1069 (synth)

De Nys, R. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 877 (5β-Hydroxypalisadin B, 12-Bromopalisadin B)

Palmidin D

P-10004

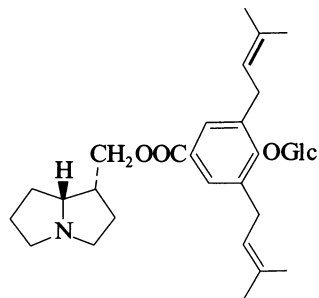
Struct. unknown. Possible Chrysophanol-Physcion dianthrone. Constit. of the callus cultures from cotyledons of *Cassia angustifolia* and the roots of *Rheum palmatum*.

Lemli, J. et al, *Planta Med.*, 1964, **12**, 107 (isol)

Friedrich, H. et al, *Phytochemistry*, 1973, **12**, 1459 (isol)

Paludosine

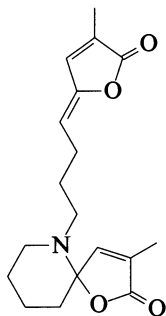
P-10005

Updated Entry replacing P-00084
[34137-24-1]Absolute
configuration $C_{31}H_{45}NO_8$ M 559.698Alkaloid from *Hammarbya paludosa* (Orchidaceae).
Amorph. $[\alpha]_D^{23} +9^\circ$ (c, 0.58 in EtOH). Hydrol. →
Lindelofine, L-00598.N-Me: [21284-20-8]. **Kumokirine** $C_{32}H_{48}NO_8^{\oplus}$ M 574.733 (ion)Quaternary alkaloid from *Liparis kurameri* and *L. kumokiri* (Orchidaceae).

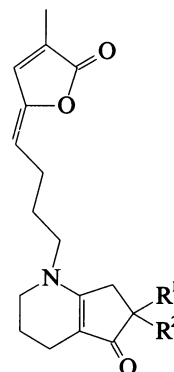
N-Me, chloride:

 $C_{32}H_{48}ClNO_8$ M 610.186 $[\alpha]_D^{20} -23.4^\circ$ (MeOH).N-Me, picrate: Cryst. + 1H₂O. Mp 100-102°.2'-O-(L-Arabinofuranosyl): [23179-26-2]. **Nervosine** $C_{36}H_{53}NO_{12}$ M 691.814Alkaloid from *Liparis nervosa*. Cryst. + 1H₂O (as
picrate). Mp 130-131° (picrate). Conts. an
arabinofuranosyl(1→2)glucosyl residue of undetd.
anomeric config.1-Epimer: [22595-00-2]. **Auriculine†** $C_{31}H_{45}NO_8$ M 559.698Alkaloid from *L. auriculata* and *L. loeselii*
(Orchidaceae). Amorph. $[\alpha]_D^{20} -19.9^\circ$ (MeOH), $[\alpha]_D^{20}$
 -14° (c, 0.56 in EtOH). Hydrol. → Laburnine (see 1-
Hydroxymethylpyrrolizidine, H-02456).Leander, K. *et al*, *Tetrahedron Lett.*, 1967, 3477 (*isol*)Nishikawa, K. *et al*, *Tetrahedron*, 1969, 25, 2723 (*isol, struct*)Lindström, B. *et al*, *Acta Chem. Scand.*, 1971, 25, 895 (*isol, struct*)**Pandamarilactone 1**

P-10006

 $C_{18}H_{23}NO_4$ M 317.384Alkaloid from leaves of *Pandanus amaryllifolius*
(Pandanaeae). Yellow amorph. solid. $[\alpha]_D -33.0^\circ$ (c,
0.1 in MeOH).Nonato, M.G. *et al*, *Phytochemistry*, 1993, 34, 1159 (*isol, uv, ir,*
pmr, cmr, struct)**Pandamarilactone 31**

P-10007

 $R^1 = OMe, R^2 = CH_3$ $C_{19}H_{25}NO_4$ M 331.411Alkaloid from leaves of *Pandanus amaryllifolius*
(Pandanaeae). Amorph. solid. $[\alpha]_D -2.0^\circ$ (c, 0.1 in
MeOH).Nonato, M.G. *et al*, *Phytochemistry*, 1993, 34, 1159 (*isol, uv, ir,*
pmr, cmr, struct)**Pandamarilactone 32**

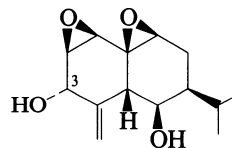
P-10008

As Pandamarilactone 31, P-10007 with

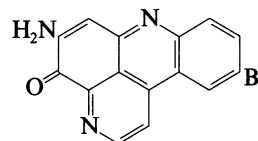
 $R^1R^2 = CH_2$ $C_{18}H_{21}NO_3$ M 299.369Major alkaloid from leaves of *Pandanus amaryllifolius*
(Pandanaeae). Amorph. solid.Nonato, M.G. *et al*, *Phytochemistry*, 1993, 34, 1159 (*isol, uv, ir,*
pmr, cmr, struct)**Panellol**

P-10009

[151341-09-2]

 $C_{14}H_{20}O_4$ M 252.310Constit. of *Resupinatus leightonii*. Cryst. Mp 154-156°. $[\alpha]_D$
 $+44^\circ$ (c, 0.5 in CHCl₃).3-Ketone: [151271-52-2]. **Panellone** $C_{14}H_{18}O_4$ M 250.294Constit. of *R. leightonii*.Sundin, A. *et al*, *Tetrahedron*, 1993, 49, 7519 (*isol, pmr, cmr, cryst*
struct)**Pantherinine**

P-10010

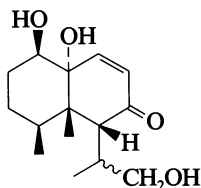
 $C_{15}H_8BrN_3O$ M 326.152Alkaloid from the ascidian *Aplidium pantherinum*. Exhibits
mild cytotoxicity against P388 murine leukemia cells.
Purple powder.

Ac: Red glass.

Kim, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1813 (*isol, uv, ir, pmr, cmr, ms, struct*)**Parathylone**

[147658-99-9]

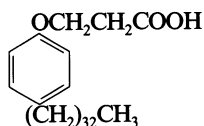
P-10011

 $C_{15}H_{24}O_4$ M 268.352Constit. of *Paralemmalia thyrsoides*. Needles. Mp 108.5-109.5°. $[\alpha]_D^{25} -16.0^\circ$ (c, 0.05 in MeOH).Su, J.-Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 288 (*isol, pmr, cmr*)**Parvifolinic acid**

3-(4-Tritriacontylphenoxy)propanoic acid, 9CI

[133336-95-5]

P-10012

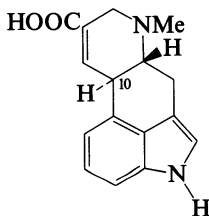
 $C_{42}H_{76}O_3$ M 629.061Isol. from the leaves of *Isodon parifolia*. Shows antitumor activity.Guo, Y. *et al*, *Zhiwu Xuebao*, 1990, **32**, 707; *CA*, **114**, 182057 (*isol*)**Paspalic acid**

Updated Entry replacing P-00208

6-Methyl-8-ergolene-8-carboxylic acid

[5516-88-1]

P-10013

 $C_{16}H_{16}N_2O_2$ M 268.315Metab. from a strain of *Claviceps paspali* and *C. purpurea*.Mp 245-247° dec. $[\alpha]_D -208^\circ$ (c, 0.4 in 0.1M NaOH).B, HCl: Mp 257-258° dec. $[\alpha]_D -176^\circ$ (c, 0.4 in 0.1M HCl).

10-Hydroxy, amide: 10-Hydroxy-trans-paspalic acid amide

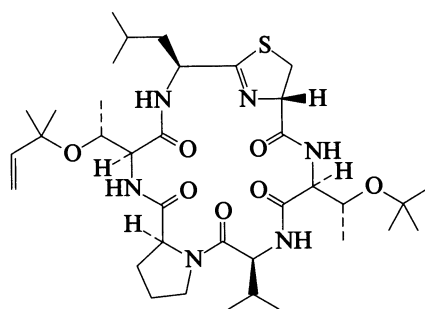
 $C_{16}H_{17}N_3O_2$ M 283.329Alkaloid from *C. paspali*.

10-Hydroxy, 10-epimer, amide: 10-Hydroxy-cis-paspalic acid amide

 $C_{16}H_{17}N_3O_2$ M 283.329Alkaloid from *C. paspali*.Kobel, H. *et al*, *Helv. Chim. Acta*, 1964, **47**, 1052 (*isol, uv, ir, pmr, struct*)Castagnoli, N. *et al*, *Nature (London)*, 1966, **211**, 859 (*occur*)Flieger, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 810 (10-Hydroxypaspalic acid amide)**Patellin 2**

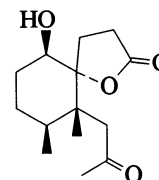
[129216-76-8]

P-10014

 $C_{37}H_{60}N_6O_7S$ M 732.983Modified cyclic peptide. Constit. of *Lissoclinium patella*.Cryst. Mp 128-130°. $[\alpha]_D^{25} -110^\circ$ (c, 1.48 in MeOH).Zabriskie, T.M. *et al*, *J. Am. Chem. Soc.*, 1990, **112**, 8080 (*isol*)**Pathylactone A**

[140165-43-1]

P-10015

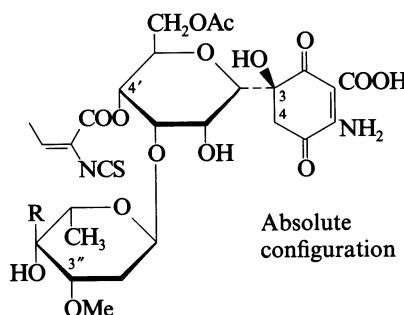
 $C_{14}H_{22}O_4$ M 254.325A seconarodinane terpenoid. Constit. of *Paralemmalia thyrsoides*. Needles. Mp 44.5-47.0°. $[\alpha]_D -7.8^\circ$ (c, 0.041 in MeOH).Su, J.Y. *et al*, *Chin. Chem. Lett.*, 1991, **2**, 785 (*isol, pmr, cmr*)Su, J.-Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 288 (*isol, pmr, cmr*)**Paulomycin A**

Updated Entry replacing P-00234

Volonomycin A. NSC 163500. U 43120. Antibiotic U 43120

[81988-77-4]

P-10016



Absolute configuration

R = $H_3CCH_2CH(CH_3)COOCH(CH_3)-$ $C_{34}H_{46}N_2O_{17}S$ M 786.807Prod. by *Streptomyces paulus*. Active against gram-positivebacteria. Needles (CHCl₃/Et₂O). Mp 95-105° dec. $[\alpha]_D^{25}$ +27° (c, 0.95 in CHCl₃), $[\alpha]_D -22^\circ$ (c, 0.95 in MeOH).

Also used as undifferentiated complex.

5-Deoxy-4,5-didehydro: [94767-59-6]. Paulomycinone A

 $C_{34}H_{44}N_2O_{16}S$ M 768.791Yellow solid. Mp 57-73°. $[\alpha]_D^{25} +2^\circ$ (c, 0.694 in MeOH).

3"-O-De-Me: O-Demethylpaulomycin A

$C_{33}H_{44}N_2O_{17}S$ M 772.780

From *S. paulus*. Cryst. (EtOAc). $[\alpha]_D^{25} + 4^\circ$ (c, 0.42 in $CHCl_3$), $[\alpha]_D - 28^\circ$ (c, 0.41 in MeOH). Melts over broad range with dec.

4'-De-O-(2-isothiocyano-2-butenoyl): [94739-81-8].

Paulomenol A

$C_{29}H_{43}NO_{16}$ M 661.656

From *S. paulus*. Amorph. $[\alpha]_D^{25} + 2^\circ$ (c, 0.67 in $CHCl_3$), $[\alpha]_D - 29^\circ$ (c, 0.59 in MeOH). Melts over broad range with dec.

6'-De-O-Ac, 6'-O-propanoyl: [116475-35-5]. **Paulomycin U**

$C_{35}H_{48}N_2O_{17}S$ M 800.833

Prod. by *S. paulus*.

[61332-05-6]

Hanka, L.J. *et al*, *J. Antibiot.*, 1976, **29**, 611 (*isol*)

Eur. Pat., 46 641, (1982); *CA*, **97**, 4673 (*isol*)

Argoudelis, A.D. *et al*, *J. Antibiot.*, 1982, **35**, 285; 1988, **41**, 1316 (*isol, uv, ir, pmr, cmr, derivs*)

Marshall, V.P. *et al*, *J. Antibiot.*, 1984, **37**, 923 (*biosynth*)

Wiley, P.F. *et al*, *J. Antibiot.*, 1984, **37**, 1273 (*struct, nmr*)

Wiley, P.F. *et al*, *J. Org. Chem.*, 1986, **51**, 2493 (*cryst struct, abs config*)

Pat. Coop. Treaty (WIPO), 88 00 949, (1988); *CA*, **109**, 127330g (*Paulomycin U*)

Paulomycin E

P-10017

Updated Entry replacing P-00239

[101411-69-2]

As Paulomycin A, P-10016 with



$C_{29}H_{36}N_2O_{16}S$ M 700.673

Isol. from *Streptomyces paulus*. Active against gram-positive bacteria. Amorph. Mp 120-160°. $[\alpha]_D^{25} + 24^\circ$ (c, 0.25 in $CHCl_3$), $[\alpha]_D^{25} - 27^\circ$ (c, 0.68 in MeOH).

3"-Epimer: [11017-36-0]. **Senfolomycin A. LL-RA 6950BA.**

Antibiotic LL-RA 6950BA

$C_{29}H_{36}N_2O_{16}S$ M 700.673

Isol. from *S. ochrosporus*.

Argoudelis, A.D. *et al*, *J. Antibiot.*, 1988, **41**, 157, 1212 (*isol, struct*)

Paulomycin F

P-10018

Updated Entry replacing P-00240

[114413-27-3]

As Paulomycin A, P-10016 with



$C_{29}H_{38}N_2O_{16}S$ M 702.689

Isol. from *Streptomyces paulus*. Active against gram-positive bacteria. Amorph. Mp 114-130° dec. $[\alpha]_D^{25} + 21^\circ$ (c, 0.23 in $CHCl_3$), $[\alpha]_D^{25} - 28^\circ$ (c, 0.51 in MeOH).

3"-Epimer: [11031-56-4]. **Senfolomycin B. LL-RA 6950BB.**

Antibiotic LL-RA 6950BB

From *S. ochrosporus*. Cryst. (Et₂O). $[\alpha]_D^{25} - 60^\circ$ (c, 0.92 in MeOH).

Argoudelis, A.D. *et al*, *J. Antibiot.*, 1988, **41**, 157, 1212 (*isol, struct*)

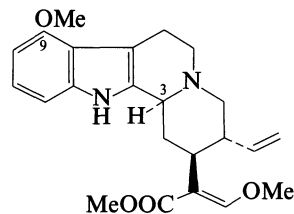
Paynantheine

P-10019

Updated Entry replacing P-00249

9-Methoxycorynantheine

[4697-66-9]



$C_{23}H_{28}N_2O_4$ M 396.485

Alkaloid from the leaves of *Mitragyna speciosa* (Nauclaceae). Yellow solid. Mp 98° (softens). $[\alpha]_D^{23} - 28.9^\circ$ (c, 0.27 in $CHCl_3$).

Picrate: Orange needles (EtOH). Mp 202°.

3-Epimer: [22032-51-5]. **3-Isopaynantheine**

$C_{23}H_{28}N_2O_4$ M 396.485

Alkaloid from *M. speciosa* (Nauclaceae). No phys. props. recorded.

O⁹-De-Me: **Gambireine**

$C_{22}H_{26}N_2O_4$ M 382.458

Alkaloid from leaves of *Uncaria callophylla* (Rubiaceae).

Beckett, A.H. *et al*, *J. Pharm. Pharmacol.*, 1965, **17**, 753 (*w, ir, pmr, struct*)

Trager, W.F. *et al*, *Tetrahedron*, 1967, **23**, 1043 (*w, ord, cd, abs config*)

Shellard, E.J. *et al*, *Planta Med.*, 1978, **34**, 253 (*epimer*)

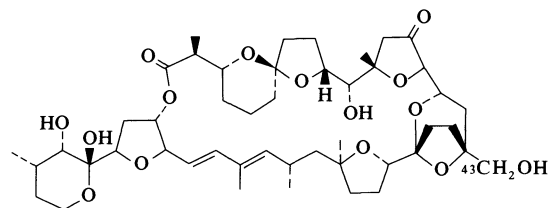
Kam, T.S. *et al*, *Phytochemistry*, 1992, **31**, 2031 (*Gambireine*)

Pectenotoxin 1

P-10020

Updated Entry replacing P-00255

[97564-90-4]



$C_{47}H_{70}O_{15}$ M 875.061

Polyether antibiotic. Found in scallops. Metab. of *Dinophysis acuminata*. Component toxin of shellfish poisoning. Cryst. (MeCN aq.). Mp 208-209°. $[\alpha]_D^{20} + 17.1^\circ$ (c, 0.41 in MeOH). λ_{max} 235 nm (MeOH).

43-Deoxy: [97564-91-5]. **Pectenotoxin 2**

$C_{47}H_{70}O_{14}$ M 859.062

From *D. acuminata*. Shellfish toxin. Amorph. $[\alpha]_D^{20} + 16.2^\circ$ (c, 0.105 in MeOH).

43-Ketone: [97560-25-3]. **Pectenotoxin 3**

$C_{47}H_{68}O_{15}$ M 873.045

Metab. of *D. acuminata*. Shellfish toxin. Amorph. Mp 159-160°. $[\alpha]_D^{20} + 2.22^\circ$ (c, 0.135 in MeOH).

Stereoisomer (?): **Pectenotoxin 4**

$C_{47}H_{70}O_{15}$ M 875.061

From *D. acuminata*. Shellfish toxin. Solid. $[\alpha]_D^{20} + 2.07^\circ$ (c, 0.193 in MeOH).

Dihydro (?): **Pectenotoxin 5**

$C_{47}H_{72}O_{15}$ M 877.077

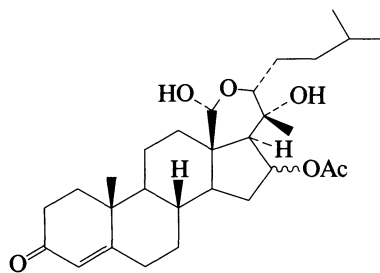
Metab. of *D. acuminata*. Shellfish toxin. Amorph.

43-Carboxylic acid: [124843-18-1]. **Pectenotoxin 6**

$C_{47}H_{68}O_{16}$ M 889.045

Constit. of *D. sp.* Shellfish toxin.

Yasumoto, T. *et al*, *Tetrahedron*, 1985, **41**, 1019 (*isol, cryst struct, spectra*)
 Murata, M. *et al*, *Agric. Biol. Chem.*, 1986, **50**, 2693 (*deriv*)
 Lee, J.S. *et al*, *Bioact. Mol.*, 1989, **10**, 327 (*Pectenotoxin 6*)

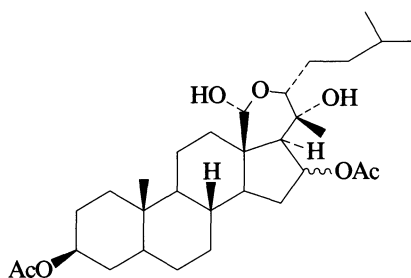
Pectinoacetal A**P-10021**

$C_{29}H_{44}O_6$ M 488.663
 Constit. of *Ctenocella pectinata*.

18-Epimer: **Pectinoacetal B**

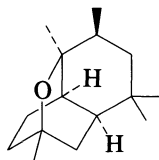
$C_{29}H_{44}O_6$ M 488.663
 Constit. of *C. pectinata*.

Roussis, V. *et al*, *Experientia*, 1993, **49**, 265 (*isol, pmr, cmr*)

Pectinoacetal C**P-10022**

$C_{31}H_{50}O_7$ M 534.732
 Constit. of *Ctenocella pectinata*.

Roussis, V. *et al*, *Experientia*, 1993, **49**, 265 (*isol, pmr, cmr*)

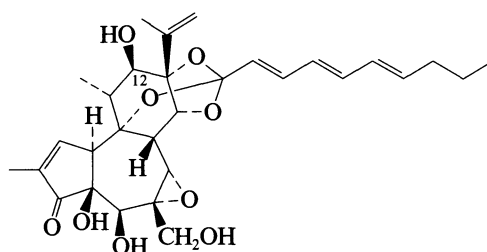
Peculiaroxide**P-10023**

$C_{15}H_{26}O$ M 222.370
 Constit. of *Plagiochila peculiaris*.

Wu, C.-L. *et al*, *Tetrahedron Lett.*, 1993, **34**, 4855 (*isol, pmr, cmr*)

Peddiea factor A₁**P-10024**

[99313-78-7]



$C_{30}H_{38}O_9$ M 542.625

Constit. of *Peddiea africana*.

12-Ac: [99313-79-8]. **Peddiea factor V₂**

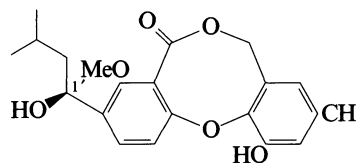
Constit. of *P. volkensii*.

Adolf, W. *et al*, *Phytochemistry*, 1985, **24**, 2047 (*isol, pmr*)

Penicillide**P-10025**

Updated Entry replacing P-00304

11-Hydroxy-3-(1-hydroxy-3-methylbutyl)-4-methoxy-9-methyl-5H,7H-dibenzo[b,g][1,5]dioxocin-5-one, 9CI
 [55303-92-9]



$C_{21}H_{24}O_6$ M 372.417

(*S*)-form

Metab. of *Penicillium* spp. and *Talaromyces derxii*. Plant growth inhibitor. Amorph. powder. $[\alpha]_D^{24} + 4.9^\circ$ (c, 0.82 in MeOH).

11-Me ether: Mp 128-129.5° (124°). $[\alpha]_D^{24} + 3.8^\circ$ (c, 0.82 in MeOH), $[\alpha]_D^7 + 14.4^\circ$ (MeOH).

1'-Ac: [133806-59-4]. **Purpactin A**. 1'-Acetoxypenicillide.

Antibiotic FO 608A. FO 608A. Vermixocin B

$C_{23}H_{26}O_7$ M 414.454

Prod. by *P. purpurogenum* and *P. vermiculatum*. Acyl CoA: cholesterol acyltransferase inhibitor, cytotoxic agent. Powder. $[\alpha]_D^{18} - 57.6^\circ$ (c, 1 in CHCl₃). No abs. config. assigned to Vermixocin B but props. and opt. rotn. agree with Purpactin A.

Sassa, T. *et al*, *Tetrahedron Lett.*, 1974, 3941 (*isol, struct, uv, ms*)

Nishida, H. *et al*, *J. Antibiot.*, 1991, **44**, 136, 144, 152 (*Purpactin A*)

Suzuki, K. *et al*, *Phytochemistry*, 1991, **30**, 2096 (*isol, pmr, cmr, abs config*)

Protska, B. *et al*, *J. Antibiot.*, 1992, **45**, 1268 (*Vermixocin B*)

Nishida, H. *et al*, *J. Org. Chem.*, 1992, **57**, 1271 (*biosynth*)

16-Pentacosenoic acid**P-10026**

$H_3C(CH_2)_7CH=CH(CH_2)_{14}COOH$

$C_{25}H_{48}O_2$ M 380.653

(*Z*)-form [140163-39-9]

Constit. of the sponge *Mycale laevis*.

Carballeira, N.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 333.

17-Pentacosenoic acid**P-10027**

$H_3C(CH_2)_6CH=CH(CH_2)_{15}COOH$

$C_{25}H_{48}O_2$ M 380.653

(*Z*)-form [134394-72-2]

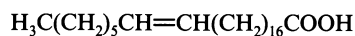
Constit. of the lichens *Cladonia* sp. and *Parmelia* sp. and from the sponge *Geodia gibberosa*.

Carballeira, N.M. *et al*, *Lipids*, 1991, **26**, 324.

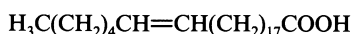
Dembitskii, V.M. *et al*, *Phytochemistry*, 1991, **30**, 4015; 1992, **31**, 841 (*isol*)

18-Pentacosenoic acid

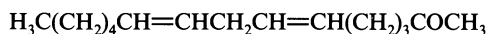
P-10028

C₂₅H₄₈O₂ M 380.653**(Z)-form** [138282-15-2]Constit. of the sponges *Euspongilla lacustris* and *Mycale laevis*.Dembitskii, V.M. *et al*, *Comp. Biochem. Physiol., B: Comp. Biochem.*, 1991, **100**, 185 (*isol*)Carballeira, N.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 333.**19-Pentacosenoic acid**

P-10029

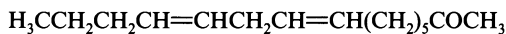
C₂₅H₄₈O₂ M 380.653**(Z)-form** [140163-40-2]Constit. of the sponge *Amphimedon compressa*.Aldehyde: [140163-48-0]. **19-Pentacosenal**C₂₅H₄₈O M 364.654Constit. of *A. compressa*.Carballeira, N.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 333.**6,9-Pentadecadien-2-one**

P-10030

C₁₅H₂₆O M 222.370**(6Z,9Z)-form** [78405-86-4]Constit. of *Chimonanthus praecox*, *Lindera benzoin* and *Neolitsea sericea*. Oil.Ueyama, Y. *et al*, *Flavour Fragrance J.*, 1990, **5**, 85 (*occur*)Anderson, J.E. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 71 (*isol*, *pmr*, *cmr*)**8,11-Pentadecadien-2-one**

P-10031

[115006-48-9]

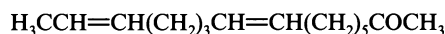
C₁₅H₂₆O M 222.370**(8Z,11Z)-form** [116752-10-4]Isol. from the roots of *Echinacea* spp.

Immunostimulant.

Bauer, R. *et al*, *Planta Med.*, 1988, **54**, 426; 1991, **57**, 447.**8,13-Pentadecadien-2-one**

P-10032

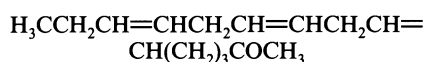
[115006-47-8]

C₁₅H₂₆O M 222.370**(8Z,13Z)-form** [126948-20-7]Isol. from the roots of *Echinacea* spp.

Immunostimulant.

Bauer, R. *et al*, *Arzneim.-Forsch.*, 1988, **38**, 276.**6,9,12-Pentadecatrien-2-one**

P-10033

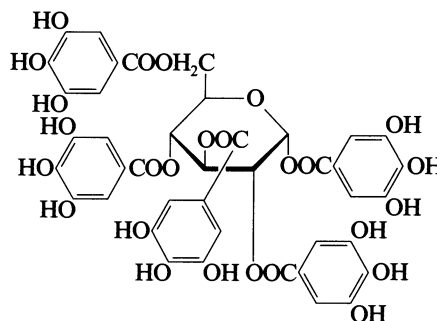
C₁₅H₂₄O M 220.354**(6Z,9Z,12Z)-form** [139328-79-3]Constit. of the ripe berries of *Lindera benzoin*. Oil.Anderson, J.E. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 71 (*isol*, *pmr*)**8,11,13-Pentadecatrien-2-one**

P-10034

C₁₅H₂₄O M 220.354**(8E,11Z,13Z)-form** [118853-86-4]Isol. from the roots of *Echinacea* spp.**(8Z,11E,13Z)-form** [118853-87-5]Isol. from the roots of *E.* spp.Bauer, R. *et al*, *Planta Med.*, 1988, **54**, 426; 1989, **55**, 367; 1991, **57**, 447 (*isol*)**1,2,3,4,6-Pentagalloylglucose**

P-10035

Updated Entry replacing P-00415

 α -D-Pyranose-formC₄₁H₃₂O₂₆ M 940.688 **α -D-Pyranose-form** [70470-10-9]A gallotannin from the rhizome of *Nuphar japonicum*.Off-white amorph. powder + 5H₂O. [α]_D²⁰ + 134.5° (c, 0.5 in Me₂CO). **β -D-Pyranose-form** [14937-32-7]Isol. from several *Acer* spp., *Quercus* spp. *Rhus* spp. and *Rubus* spp. Off-white amorph. powder. [α]_D²⁰ + 20.5° (c, 1.0 in Me₂CO).**O-(3,4,5-Trihydroxybenzoyl)(1):** [85249-26-9]. **2-O-Digalloyl-1,3,4,6-tetra-O-galloyl- β -D-glucopyranose**
C₄₈H₃₆O₃₀ M 1092.794Isol. from the twig galls of *Rhus semialata* and *Q. infectoria*.Light brown amorph. powder. [α]_D²⁰ + 11.2° (c, 0.25 in Me₂CO). Contains a digalloyl (galloyl-galloyl) residue at C-2.**O-(3,4,5-Trihydroxybenzoyl)(2):** [85199-90-2]. **3-O-Digalloyl-1,2,4,6-tetra-O-galloyl- β -D-glucopyranose**
C₄₈H₃₆O₃₀ M 1092.794Constit. of Chinese gallotannins from twig galls of *R. semialata*.Light brown amorph. powder. [α]_D²⁰ + 45.0° (c, 0.32 in Me₂CO). Contains a digalloyl residue at C-3.**O-3,4,5-Trihydroxybenzoyl(3):** **4-O-Digalloyl-1,2,3,6-tetra-O-galloyl- β -D-glucopyranose**
C₄₈H₃₆O₃₀ M 1092.794Constit. of twig galls of *R. semialata* and *Q. infectoria*.Light brown amorph. powder. [α]_D²⁰ + 14.1° (c, 0.17, in Me₂CO). Contains a digalloyl residue at C-4.**O-3,4,5-Trihydroxybenzoyl(4):** [60768-30-1]. **6-O-Digalloyl-1,2,3,4-tetra-O-galloyl- β -D-glucopyranose**
C₄₈H₃₆O₃₀ M 1092.794Gallotannin constit. of twig galls (*Q. infectoria*) and of *Paonia lactiflora*. Light brown amorph. powder. [α]_D²⁰ + 43.4° (c, 0.53 in Me₂CO). Contains a digalloyl residue at C-6.**Bis(3,4,5-trihydroxybenzoyl)(1):** [85199-91-3]. **2,3-Di-O-digalloyl-1,4,6-tri-O-galloyl- β -D-glucopyranose**
C₅₅H₄₀O₃₄ M 1244.901

Constit. of twig galls from *R. semialata* and of green alga (*Spyrogyra* sp.). $[\alpha]_D^{20} + 24.4^\circ$ (c, 1.35 in Me₂CO). Contains digalloyl residue at C-2 and C-3.

Bis(3,4,5-trihydroxybenzoyl)(2): [85249-29-2]. 2,4-Di-O-digalloyl-1,3,6-tri-O-galloyl-β-D-glucopyranose

C₅₅H₄₀O₃₄ M 1244.901

Gallotannin from *R. semialata* and from green alga *S.* sp. Light brown amorph. powder. $[\alpha]_D^{20} + 12.0^\circ$ (c, 1.27 in Me₂CO). Contains digalloyl residues at C-2 and C-4.

Bis(3,4,5-trihydroxybenzoyl)(3): [87861-32-3]. 2,6-Di-O-digalloyl-1,3,4-tri-O-galloyl-β-D-glucopyranose

C₅₅H₄₀O₃₄ M 1244.901

Gallotannin from *P. lactiflora*. Light brown amorph. powder + 2H₂O. $[\alpha]_D^{20} + 48.6^\circ$ (c, 0.40 in Me₂CO). Contains digalloyl residues at C-2 and C-6.

Bis(3,4,5-trihydroxybenzoyl)(4): [85249-28-1]. 3,4-Di-O-digalloyl-1,2,6-tri-O-galloyl-β-D-glucopyranose

C₅₅H₄₀O₃₄ M 1244.901

Gallotannin from *R. semialata* and from green alga *S.* sp. Light brown amorph. powder. $[\alpha]_D^{20} + 36.4^\circ$ (c, 1.62 in Me₂CO). Contains digalloyl residues at C-3 and C-4.

Bis(3,4,5-trihydroxybenzoyl)(5): [87860-74-0]. 3,6-Di-O-digalloyl-1,2,4-tri-O-galloyl-β-D-glucopyranose

C₅₅H₄₀O₃₄ M 1244.901

Isol. from the root of *P. lactiflora*. Light brown amorph. powder + 2H₂O. $[\alpha]_D^{20} + 33.6^\circ$ (c, 0.54 in Me₂CO). Contains digalloyl residues at C-3 and C-6.

Bis(3,4,5-trihydroxybenzoyl)(6): [87861-31-2]. 4,6-Di-O-digalloyl-1,2,3-tri-O-galloyl-β-D-glucopyranose

C₅₅H₄₀O₃₄ M 1244.901

Gallotannin of *P. lactiflora*. Light brown amorph. powder. Contains digalloyl residues at C-4 and C-6.

Tris(3,4,5-trihydroxybenzoyl): [87823-32-3]. 2,3,6-Tri-O-digalloyl-1,4-di-O-galloyl-β-D-glucopyranose

C₆₂H₄₄O₃₈ M 1397.007

Gallotannin constit. of *P. lactiflora*. Light brown amorph. powder + 1H₂O. $[\alpha]_D^{20} + 39.3^\circ$ (c, 0.82 in Me₂CO). Contains digalloyl residues at C-2, C-3 and C-6.

O-(Galloylgalloyl)(1): [85249-60-1]. 3-O-Trigalloyl-1,2,4,6-tetra-O-galloyl-β-D-glucopyranose

C₅₅H₄₀O₃₄ M 1244.901

Constit. of *P. lactiflora* and Chinese gallotannin (twig galls of *R. semialata*). Light brown amorph. powder. $[\alpha]_D^{20} + 13.4^\circ$ (c, 1.35 in Me₂CO). Contains a trigalloyl (galloylgalloylgalloyl) residue at C-3.

O-(Galloylgalloyl)(2): [86747-20-8]. 6-O-Trigalloyl-1,2,3,4-tetra-O-galloyl-β-D-glucopyranose

C₅₅H₄₀O₃₄ M 1244.901

Gallotannin constit. of Turkish galls (*Q. infectoria*). Light brown amorph. powder. Contains a trigalloyl residue at C-6.

[52238-31-0, 86747-19-5, 99877-82-4, 99877-84-6, 99877-86-8, 99877-87-9]

Haddock, E.A. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1982, 2515 (isol, struct, pmr, cmr)

Nishizawa, M. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1982, 2963; 1983, 961 (derivs)

Nishizawa, M. *et al*, *Chem. Pharm. Bull.*, 1983, 31, 2593 (derivs)

Nishizawa, M. *et al*, *Phytochemistry*, 1985, 24, 2411 (derivs)

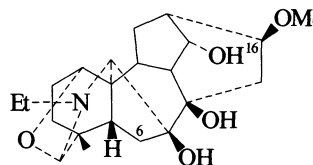
Nonaka, G. *et al*, *Chem. Pharm. Bull.*, 1987, 35, 3127 (struct, pmr, cmr)

Pentagydine

P-10036

Updated Entry replacing P-00416

[86630-38-8]



C₂₂H₃₃NO₅ M 391.506

Minor alkaloid from *Delphinium pentagynum* (Ranunculaceae). Mp 130-131°.

16-Demethoxy: [90475-66-4]. **Graciline**

C₂₁H₃₁NO₄ M 361.480

Alkaloid from *D. gracile* (Ranunculaceae). Mp 98-100°.

6β-Methoxy: see *Gadesine*, G-00002

7-Deoxy,6α-methoxy: [84306-91-2]. **Pentagynine**

C₂₃H₃₅NO₅ M 405.533

Alkaloid from *D. pentagynum* (Ranunculaceae). Mp 198-201°. $[\alpha]_D + 72^\circ$ (c, 0.12 in EtOH).

16-Demethoxy, 8-cinnamoyl: 8-O-Cinnamoylgraciline

C₃₀H₃₇NO₅ M 491.626

Alkaloid from above-ground parts of *D. cossonianum* (Ranunculaceae). Amorph. $[\alpha]_D + 10.4^\circ$ (c, 0.41 in CHCl₃).

González, A.G. *et al*, *Phytochemistry*, 1982, 21, 1781 (*Pentagynine*)

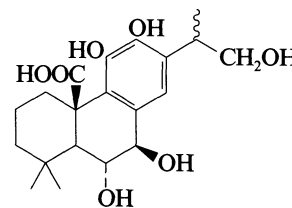
González, A.G. *et al*, *Tetrahedron Lett.*, 1983, 24, 959 (ir, pmr, ms, cryst struct)

González, A.G. *et al*, *Heterocycles*, 1984, 22, 667 (*Graciline*)

de la Fuente, G. *et al*, *Phytochemistry*, 1993, 34, 553 (8-O-Cinnamoylgraciline)

6,7,11,12,16-Pentahydroxy-8,11,13-abietatrien-20-oic acid

P-10037



C₂₀H₂₈O₇ M 380.437

(6α,7β,15ξ)-form

20→7 Lactone: 6,11,12,16-Tetrahydroxy-8,11,13-abietatrien-20,7-olide

C₂₀H₂₆O₆ M 362.422

Constit. of *Salvia mellifera*. Amorph. solid.

(6β,7α,16ξ)-form

20→6 Lactone, 7-Me ether: 11,12,16-Trihydroxy-7-methoxy-8,11,13-abietatrien-20,6-olide. 16-Hydroxy-17-methoxyrosmanol

C₂₁H₂₈O₆ M 376.449

Constit. of *S. munzii*. Oil.

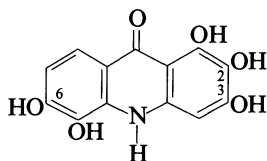
Luis, J.G. *et al*, *Phytochemistry*, 1993, 33, 635, 863 (isol, pmr, cmr)

1,2,3,5,6-Pentahydroxyacridone

P-10038

Updated Entry replacing P-00418

1,2,3,5,6-Pentahydroxy-9H-acridin-9-one

 $C_{13}H_9NO_6$ M 275.217

2,3,10-Tri-Me: [126622-17-1]. 2,3-Dimethoxy-1,5,6-trihydroxy-10-methylacridone

 $C_{16}H_{15}NO_6$ M 317.298Alkaloid from the root bark of *Pleiospermium alatum* (Rutaceae). Yellow cryst. Mp 118-119°.

2,5,10-Tri-Me: [119459-67-5]. 1,3,6-Trihydroxy-2,5-dimethoxy-10-methylacridone. Citramine

 $C_{16}H_{15}NO_6$ M 317.298Alkaloid from *Citrus natsudaidai* and roots of *Ogonkan* (a *C. hybrid*) (Rutaceae). Light-yellow prisms. Mp 277-279°.

2,3,5,6-Tetra-Me ether: 1-Hydroxy-2,3,5,6-tetramethoxyacridone. Cuspanine

 $C_{17}H_{17}NO_6$ M 331.324Alkaloid from leaves of *Angostura paniculata* (Rutaceae). Yellow cryst. (MeOH). Mp 164-166°.

▷ Exhibits moderate molluscicidal activity and moderate cytotoxicity against several carcinoma cell lines.

2,3,5,10-Tetra-Me: [101330-64-7]. 1,6-Dihydroxy-2,3,5-trimethoxy-10-methylacridone

 $C_{17}H_{17}NO_6$ M 331.324Alkaloid from the stems of *P. alatum* (Rutaceae). Yellow needles (CHCl₃/pet. ether). Mp 181-182°.

2,5,6,10-Tetra-Me: [107259-49-4]. 1,3-Dihydroxy-2,5,6-trimethoxy-10-methylacridone. Atalafoline

 $C_{17}H_{17}NO_6$ M 331.324Alkaloid from the chinese drug Tung-Feng-Jie (roots of *Atalantia buxifolia* (Rutaceae)).

1,2,3,5,6-Penta-Me ether: 1,2,3,5,6-Pentamethoxyacridone. Cusculine

 $C_{18}H_{19}NO_6$ M 345.351Alkaloid from leaves of *A. paniculata* (Rutaceae). Yellow cryst. (MeOH). Mp 223-224°.

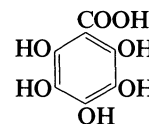
▷ Exhibits moderate molluscicidal activity and moderate cytotoxicity against several carcinoma cell lines.

2,3,5,6,10-Penta-Me: [101330-63-6]. 1-Hydroxy-2,3,5,6-tetramethoxy-10-methylacridone

 $C_{18}H_{19}NO_6$ M 345.351Alkaloid from the root bark of *P. alatum* (Rutaceae). Yellow needles (CHCl₃/pet. ether); cryst. (hexane/EtOAc). Mp 198-200° (170°).Bowen, I.H. et al, *Phytochemistry*, 1986, **25**, 429 (isol, uv, ir, pmr, ms, struct)Qin, D., *Yaoxue Xuebao*, 1986, **21**, 683; *CA*, **106**, 135228h (Atalafoline)Ju-Ichi, M. et al, *Heterocycles*, 1988, **27**, 2197 (Citramine)Bandara, B.M.R. et al, *Phytochemistry*, 1990, **29**, 297 (isol, uv, ir, pmr, ms, struct)Vieira, P.C. et al, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1112 (Cuspanine, Cusculine)

Pentahydroxybenzoic acid

P-10039

 $C_7H_6O_7$ M 202.120

Penta-Me ether: Pentamethoxybenzoic acid

 $C_{12}H_{16}O_7$ M 272.254

Cryst. (EtOAc). Mp 95.5°.

Penta-Me ether, Me ester:

 $C_{13}H_{18}O_7$ M 286.281Leaflets (MeOH aq.). Mp 48.5°. Bp₂ 150-153°.

3,4-Methylene ether, Me ester: [139934-62-6]. Methyl 2,3,6-trihydroxy-3,4-methylenedioxybenzoate. Methyl trihydroxypiperonylate

 $C_9H_8O_7$ M 228.158Constit. of *Delphinium venulosum*. Needles. Mp 253-255°.Dallacker, F., *Justus Liebigs Ann. Chem.*, 1963, **665**, 78 (synth, deriv, ir)Parker, K.A. et al, *J. Org. Chem.*, 1987, **52**, 674 (synth, deriv, ir, pmr)Merlici, A.H. et al, *Phytochemistry*, 1991, **30**, 4195 (isol, deriv)

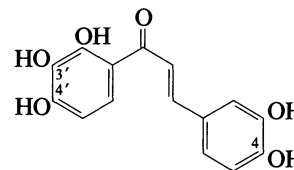
2',3,3',4,4'-Pentahydroxychalcone

P-10040

Updated Entry replacing P-00435

3-(3,4-Dihydroxyphenyl)-1-(2,3,4-trihydroxyphenyl)-2-propen-1-one, 9CI. Okanin

[484-76-4]

 $C_{15}H_{12}O_6$ M 288.256From heartwood of *Cylicodiscus gabunensis* and from *Coreopsis maritima*, *C. tinctoria*, *Acacia salicina*, *Albizia* spp., the sedge *Kyllinga* sp. and others. Flat orange leaflets (EtOH aq.). Mp 235-240° dec. Uv data contradictory; highly sensitive to solvent and pH.

2,4-Dinitrophenylhydrazone: Scarlet powder. Mp 253° dec.

Penta-Ac: Needles (EtOH). Mp 138-141°.

3'-O-β-D-Glucopyranoside: [115070-76-3].

 $C_{21}H_{22}O_{11}$ M 450.398Constit. of *Bidens pilosa*. Mp 131-135°.

4'-O-β-D-Glucopyranoside: [535-96-6]. Marein

 $C_{21}H_{22}O_{11}$ M 450.398From *Coreopsis maritima*, *C. tinctoria*, *Baeria chrysostoma*, *Viguiera dentata*, *Thelesperma megapotamicum* and many *Bidens* spp. Orange needles (EtOH aq.). Mp 130-132°.

4'-O-[α-L-Arabinofuranosyl(1→4)-β-D-glucopyranoside]: [77587-43-0].

 $C_{26}H_{30}O_{15}$ M 582.514Isol. from *Abies pindrow*. Pale yellow needles (EtOH). Mp 178-179°. Rare isoln. of a chalcone from a gymnosperm.

3-Me ether: 2',3',4,4'-Tetrahydroxy-3-methoxychalcone. 3-O-Methylokanin

 $C_{16}H_{14}O_6$ M 302.283Isol. from *Bidens pilosa*.

4-Me ether: 2',3,3',4'-Tetrahydroxy-4-methoxychalcone. 4-O-Methylokanin

 $C_{16}H_{14}O_6$ M 302.283

Isol. from *B. spp.*

4-Me ether, 3'-O- β -D-glucopyranoside: [119227-96-2].

C₂₂H₂₄O₁₁ M 464.425

Constit. of *B. pilosa*. Cryst. Mp 196°.

4-Me ether, 4'-O- β -D-glucopyranoside: [94285-20-8].

C₂₂H₂₄O₁₁ M 464.425

Isol. from *B. torta* and *B. campylothecha*. Yellow powder. Mp 142°. Also isol. as its monoacetate.

4-Me ether, 4'-O-(6-O-acetyl- β -D-glucopyranoside): [142628-33-9].

C₂₄H₂₆O₁₂ M 506.462

Constit. of *B. campylothecha*. Yellow powder. Mp 217-222° dec.

4-Me ether, 4'-O-primveroside: [146257-94-5].

C₂₇H₃₂O₁₅ M 596.541

Constit. of *B. campylothecha*. Yellow powder. Mp 158°.

4'-O-(6-O-Acetyl-2-O-caffeoyl- β -D-glucopyranoside):

[142628-30-6].

C₃₂H₃₀O₁₅ M 654.580

Isol. from *B. frondosa*. Orange powder. $[\alpha]_D^{20} + 78^\circ$ (c, 0.2 in MeOH).

4'-O-(2-O-Caffeoyl-6-O-p-coumaroyl- β -D-glucopyranoside): [142628-31-7].

C₃₉H₃₄O₁₆ M 758.688

Isol. from *B. frondosa*. Orange powder. $[\alpha]_D^{26} - 66^\circ$ (c, 0.2 in MeOH).

4'-Me ether, 4-O-(6-O-acetyl- β -D-glucopyranoside):

C₂₄H₁₆O₁₂ M 496.383

Isol. from *B. frondosa*. Orange powder. $[\alpha]_D^{26} + 119^\circ$ (c, 0.2 in MeOH).

4'-Me ether, 4-O-(6-O-coumaroyl- β -D-glucopyranoside): [142628-32-8].

C₃₁H₃₀O₁₃ M 610.570

Isol. from *B. frondosa*. Orange powder. $[\alpha]_D^{26} - 219^\circ$ (c, 0.16 in MeOH).

4'-Me ether, 4-O-(6-O-acetyl-2-O-caffeoyl- β -D-glucopyranoside): [142628-34-0].

C₃₃H₃₂O₁₅ M 668.607

Isol. from *B. frondosa*. Orange powder. $[\alpha]_D^{26} + 26^\circ$ (c, 0.2 in MeOH).

3'-Me ether: [6542-59-2]. 2',3,4,4'-Tetrahydroxy-3'-methoxychalcone. **Lanceoletin**

Rare chalcone present in some Compositae. Pale-yellow prisms (MeOH) (as tetra-Ac). Mp 162-166° (tetra-Ac).

3'-Me ether, 4'-O- β -D-glucopyranoside: [64181-95-9].

Lanceolin[†]

C₂₂H₂₄O₁₁ M 464.425

Isol. from *Coreopsis lanceolata* and other *C. spp.*

3,4-Di-Me ether, 4'-O- β -D-glucopyranoside: [94285-17-3].

C₂₃H₂₆O₁₁ M 478.452

Isol. from *B. torta*. No phys. props. reported.

3,3',4-Tri-Me ether, 4'-O- β -D-glucopyranoside: [94285-18-4].

C₂₄H₂₈O₁₁ M 492.479

Isol. from *B. torta*. No phys. props. reported.

3,3',4,4'-Tetra-Me ether: [94285-19-5]. 2'-Hydroxy-3,3',4,4'-tetramethoxychalcone

C₁₉H₂₀O₆ M 344.363

Isol. from *B. torta*. No phys. props. reported.

(Z)-Isomer: **Isokanin**

C₁₅H₁₂O₆ M 288.256

Isol. from heartwood of *Cylicodiscus gabunensis*.

Lemon-yellow needles + H₂O (H₂O). Mp 140°.

Presumably an artifact.

[57062-90-5]

Russel, A. *et al*, *J. Chem. Soc.*, 1934, 1506, 1940 (*isol, uv*)

Kurth, E.F., *J. Am. Chem. Soc.*, 1939, 61, 861 (*synth*)

King, F.E. *et al*, *J. Chem. Soc.*, 1951, 569 (*Isokanin*)

Shimokoriyama, M., *J. Am. Chem. Soc.*, 1953, 75, 1900; 1957, 79, 214 (*isol, uv*)

Harborne, J.B. *et al*, *J. Am. Chem. Soc.*, 1956, 78, 829 (*isol, uv*)

Clark-Lewis, J.W. *et al*, *Aust. J. Chem.*, 1972, 25, 1943 (*isol, uv*)

Ballard, R.E., *Diss. Abstr. B*, 1975, 36, 1564 (*derivs*)

Nicholls, K.W. *et al*, *Phytochemistry*, 1979, 18, 1076 (*isol*)

Tiwari, K.P. *et al*, *Phytochemistry*, 1980, 19, 2501

(*arabinosylglucoside*)

Pinkey, J.P.K. *et al*, *Curr. Sci.*, 1983, 52, 1185 (*synth*)

McCormick, S.P. *et al*, *Phytochemistry*, 1984, 23, 2400 (*isol, derivs*)

Crawford, D.J. *et al*, *Biochem. Syst. Ecol.*, 1985, 13, 115

(*Lanceolin*)

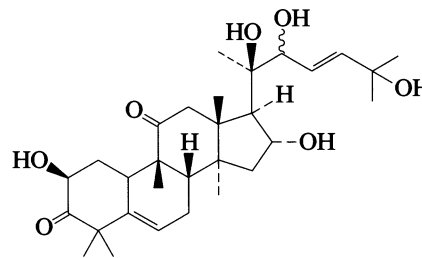
Hoffmann, B. *et al*, *Phytochemistry*, 1988, 27, 3700 (*3'-glycosides*)

Hoffmann, B. *et al*, *Planta Med.*, 1988, 54, 52 (*3'-glycoside*)

Karikome, H. *et al*, *Chem. Pharm. Bull.*, 1992, 40, 689 (*derivs*)

Redl, K. *et al*, *Phytochemistry*, 1993, 32, 218 (*derivs*)

2,16,20,22,25-Pentahydroxycucurbita-5,2,3-diene-3,11-dione P-10041



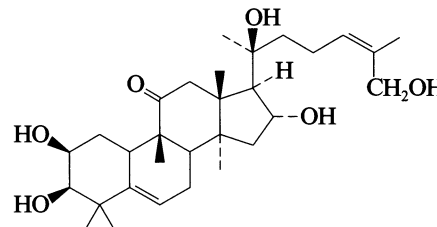
C₃₀H₄₆O₇ M 518.689

(2 β ,16 α ,20R,22 ξ ,23E)-form

Constit. of *Wilbrandia ebracteata*. Amorph. Mp 132-136°.

Farias, M.R. *et al*, *Planta Med.*, 1993, 59, 272 (*isol, pmr, cmr*)

2,3,16,20,26-Pentahydroxycucurbita-5,24-dien-11-one P-10042



C₃₀H₄₆O₆ M 504.706

(2 β ,3 β ,16 α ,20S,24Z)-form

2-O- β -D-Glucopyranoside: [151162-89-9].

C₃₆H₅₈O₁₁ M 666.848

Constit. of *Picrorhiza kurroa*. Amorph. powder. Mp 169-171°.

3-Ketone, 2-O- β -D-glucopyranoside: [151162-88-8]. 2-

Glucosyloxy-16,20,26-trihydroxycucurbita-5,24-diene-3,11-dione

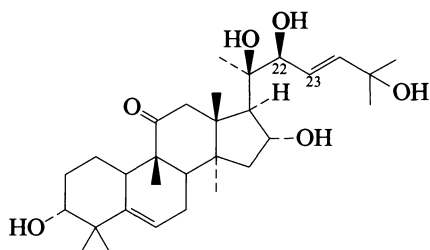
C₃₆H₅₆O₁₁ M 664.832

Constit. of *P. kurroa*. Amorph. powder. Mp 151-153°.

Stuppner, H. *et al*, *Phytochemistry*, 1993, 33, 1139 (*isol, pmr, cmr*)

3,16,20,22,25-Pentahydroxycucurbita-5,23-dien-11-one

P-10043

C₃₀H₄₈O₆ M 504.706**(3α,16α,20R,22S)-form** [149725-29-1] **Kinoin A**Constit. of *Ibervillea sonorae*. Cryst. (CHCl₃). Mp 138-140°. [α]_D²¹ +61° (c, 0.3 in CHCl₃).

3-O-β-D-Glucopyranoside: [149172-54-3].

C₃₆H₅₈O₁₁ M 666.848Constit. of *I. sonorae*. Cryst. (EtOAc/EtOH aq.). Mp 174-176°. [α]_D²¹ +39° (c, 1.8 in MeOH).

3-O-[α-L-Rhamnopyranosyl-(1→2)-β-D-glucopyranoside]: [149172-52-1].

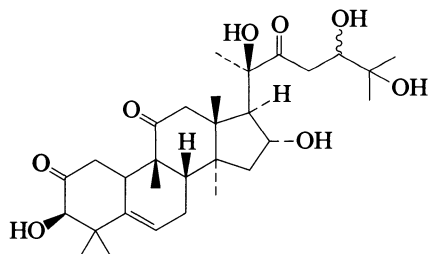
C₄₂H₆₈O₁₅ M 812.990Constit. of *I. sonorae*. Powder. [α]_D²¹ +5° (c, 1.6 in MeOH).23,24-Dihydro, 22-ketone: [149725-30-4]. 3,16,20,25-Tetrahydroxycucurbit-5-ene-11,25-dione. **Kinoin B**C₃₀H₄₈O₆ M 504.706Constit. of *I. sonorae*. Cryst. (MeOH). Mp 185-187°. [α]_D²¹ +24° (c, 0.1 in CHCl₃).

23,24-Dihydro, 22-ketone, 3-O-[α-L-rhamnopyranosyl-(1→2)-β-D-glucopyranoside]: [149172-53-2].

C₄₂H₆₈O₁₅ M 812.990Constit. of *I. sonorae*. Amorph. powder. [α]_D²¹ -9° (c, 1.2 in MeOH).Achenbach, H. *et al*, *Phytochemistry*, 1993, **33**, 437 (*isol*, *pmr*, *cmr*)

3,16,20,24,25-Pentahydroxycucurbit-5-ene-2,11,22-trione

P-10044

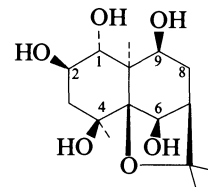
C₃₀H₄₆O₈ M 534.689**(3β,16α,20R,24ξ)-form** [150337-38-5] **3-Episocucurbitacin G**Constit. of *Wilbrandia ebracteata*. Amorph. Mp 96-103°.Farias, M.R. *et al*, *Planta Med.*, 1993, **59**, 272 (*isol*, *pmr*, *cmr*)

1,2,4,6,9-Pentahydroxydihydro-β-agarofuran

P-10045

Updated Entry replacing P-00470

2,4-Dihydroxycelorbicol

C₁₅H₂₆O₆ M 302.367**(1α,2β,4β,6β,9β)-form**

1-Cinnamoyl, 6-(3-pyridinecarbonyl), 9-Ac: [117677-26-6].

Rzedowskin DC₃₂H₃₇NO₆ M 579.646Alkaloid from the aerial parts of *Orthosphenia mexicana* (Celastraceae) and *Rzedowskia tolantouensis*. Amorph. solid. Mp 143-145°.

6,9-Di-Ac, 1-cinnamoyl: [114226-36-7]. 6β,9β-Diacetoxy-1α-cinnamoyloxy-2β,4β-dihydroxydihydro-β-agarofuran

C₂₈H₃₆O₉ M 516.587Constit. of *O. mexicana*.

1-(2,3-Epoxycinnamoyl), 2,9-di-Ac: [117610-40-9].

Rzedowskin AC₂₈H₃₆O₁₀ M 532.586Constit. of *R. tolantouensis*. Cryst. (Me₂CO/hexane). Mp 210°. Rzedowskin B and Rzedowskin C are mixts. of related esters isol. from the same source.

1,6,9-Tribenzoyl, 2-Ac:

C₃₈H₄₀O₁₀ M 656.728Constit. of *Maytenus magellanica*. Oil. [α]_D²⁰ +64.5° (c, 0.2 in CHCl₃).

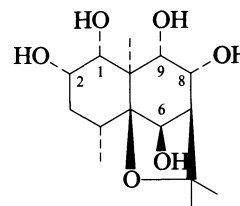
1,9-Dibenzoyl, 2,6-di-Ac:

C₃₃H₃₈O₁₀ M 594.657Constit. of *Maytenus magellanica* and *Schaefferia cuneifolia*.**(1α,2α,4β,6β,9β)-form**1-Cinnamoyl, 9-benzoyl, 2,6-di-Ac: **Batakanine**C₃₅H₄₀O₁₀ M 620.695Constit. of *Euonymus tanakae*. Needles (EtOH aq.). Mp 237.5-238.5°. [α]_D²³ +229° (c, 0.142 in CHCl₃).6-Ketone, 1,9-dibenzoyl, 2-Ac: [83790-33-4]. **Mortonol B**C₃₁H₃₄O₉ M 550.604Constit. of *Mortonia greggii*. Cryst. (Me₂CO/diisopropyl ether). Mp 216-218°. [α]_D +23.45° (CHCl₃).Martinez, M. *et al*, *Phytochemistry*, 1982, **21**, 1335 (*Mortonol B*)González, A.G. *et al*, *Phytochemistry*, 1987, **26**, 2133; 1988, **27**, 473 (*isol*, *ir*, *pmr*, *ms*, *struct*)Jiménez, M. *et al*, *Phytochemistry*, 1988, **27**, 2213 (*Rzedowskins*)González, A.G. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 2114 (*derivs*)Ueda, K. *et al*, *Phytochemistry*, 1993, **33**, 230 (*Batakanine*)

1,2,6,8,9-Pentahydroxydihydro-β-agarofuran

P-10046

Updated Entry replacing P-00471



C₁₅H₂₆O₆ M 302.367**(1α,2α,6β,8α,9α)-form**1-(3-Pyridinecarbonyl), 8-(2-methylbutanoyl), 2,9-dibenzoyl, 6-Ac: [135118-41-1]. **Triptogelin A5**C₄₂H₄₇NO₁₁ M 741.833Constit. of *Tripterygium wilfordii*. Amorph. powder. [α]_D²⁵ +200.1° (c, 0.17 in CHCl₃).8-(3-Pyridinecarbonyl), 1,2,9-tribenzoyl, 6-Ac: [135118-42-2]. **Triptogelin A6**C₄₄H₄₃NO₁₁ M 761.824Constit. of *T. wilfordii*. Amorph. powder. [α]_D²⁵ +31.5° (c, 0.21 in CHCl₃).

8-(3-Pyridinecarbonyl), 9-benzoyl, 6-Ac: [135118-43-3].

Triptogelin A7C₃₀H₃₅NO₉ M 553.608Constit. of *T. wilfordii*. Amorph. powder. [α]_D²³ +63.1° (c, 0.5 in MeOH).9-Benzoyl, 6-Ac: [135118-44-4]. **Triptogelin A8**C₂₄H₃₂O₈ M 448.512Constit. of *T. wilfordii* and *C. angulatus*. Amorph. powder. [α]_D²³ +70.1° (c, 0.52 in CHCl₃).8-(3-Pyridinecarbonyl), 2-hexanoyl, 1,9-dibenzoyl, 6-Ac: [135118-45-5]. **Triptogelin A9**C₄₃H₄₉NO₁₁ M 755.860Constit. of *T. wilfordii*. Amorph. powder. [α]_D²³ +12.1° (c, 1 in MeOH).1-(3-Pyridinecarbonyl), 2,8,9-tribenzoyl, 6-Ac: [135118-33-1]. **Triptogelin A10**C₄₄H₄₃NO₁₁ M 761.824Constit. of *T. wilfordii* var. *regelii*. Amorph. powder. [α]_D²³ +77.6° (c, 0.52 in MeOH).1,2,9-Tribenzoyl, 6,8-di-Ac: [135118-34-2]. **Triptogelin A11**C₄₀H₄₂O₁₁ M 698.765Constit. of *T. wilfordii*. Amorph. powder. [α]_D²³ +137.8° (c, 0.32 in MeOH).8,9-Dibenzoyl, 6-Ac: [132536-80-2]. **Angulatueoid G**C₃₁H₃₆O₉ M 552.620Isol. from *Celastrus angulatus*.

1,2,8,9-Tetrabenzoyl, 6-Ac: [132536-78-8].

C₄₅H₄₄O₁₁ M 760.836Constit. of *C. angulatus*. Amorph. [α]_D +8.5° (c, 0.5 in CHCl₃).**(1α,2α,6β,8α,9β)-form**

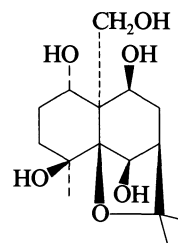
8,9-Dibenzoyl, 2-(2-methylbutanoyl), 1-Ac:

C₃₆H₄₄O₁₀ M 636.738Constit. of *Celastrus rosthornianus*. Cryst. (EtOAc/pet. ether). Mp 225-226°.

9-Benzoyl, 8-(2-furancarboxyl), 2-(2-methylbutanoyl), 1-Ac:

C₃₄H₄₂O₁₁ M 626.699Constit. of *C. rosthornianus*. Amorph. powder.2,8,9-Tribenzoyl, 1-Ac: **Sincassiol†**C₃₈H₄₀O₁₀ M 656.728Isol. from *C. rosthornianus*. Amorph. powder. [α]_D²⁵ +33° (c, 0.49 in CHCl₃).Takaishi, Y. *et al*, *Phytochemistry*, 1991, **30**, 1561, 1567 (*Triptogelins*)Yongqiang, T. *et al*, *Phytochemistry*, 1991, **30**, 4169 (*isol, pmr, cmr*)Tu, Y.Q. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 625 (*isol, pmr, cmr*)Yongqiang, T. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 126 (*isol, pmr, cmr*)Tu, Y.Q. *et al*, *Phytochemistry*, 1992, **31**, 1415 (*Sincassiol*)Dagang, N. *et al*, *Phytochemistry*, 1992, **31**, 4219 (*Angulatueoid G*)**1,4,6,8,14-Pentahydroxydihydro-β-agarofuran**

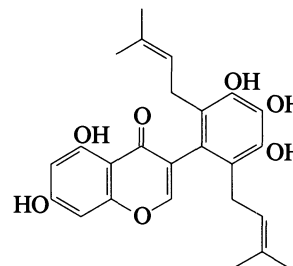
P-10047

C₁₅H₂₆O₆ M 302.367**(1α,4β,6β,9β)-form**

9-Benzoyl, 1,6,14-tri-Ac: [150900-68-8].

C₂₈H₃₆O₁₀ M 532.586Constit. of *Maytenus canariensis*. Cryst. (Et₂O/hexane). Mp 188-190°. [α]_D²⁵ -19.6° (c, 0.25 in CHCl₃).González, A.G. *et al*, *Tetrahedron*, 1993, **49**, 6637 (*isol, pmr, cmr*)**3',4',5,5',7-Pentahydroxy-2',6'-diprenylisoflavone**

P-10048

C₂₅H₂₆O₇ M 438.4763'-Me ether: [137217-88-0]. 3',4',5,7-Tetrahydroxy-5'-methoxy-2',6'-diprenylisoflavone. **Erythbigenin**C₂₆H₂₈O₇ M 452.503Constit. of the root bark *Piscidia erythrina*. Powder. Mp 219-221° (214-217°). Struct. revised in 1991. Formerly given the name 6'-Prenylpiscerythron.

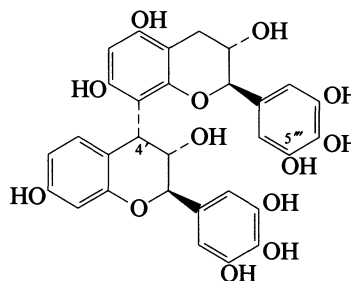
[95261-31-7]

Tahara, S. *et al*, *Phytochemistry*, 1991, **30**, 1683, 2769 (*isol, pmr, strct*)**3,3',4',5',7-Pentahydroxyflavan(4→8)-3,3',4',5,5',7-hexahydroxyflavan**

P-10049

Updated Entry replacing P-00507

2,2'-Bis(3,4,5-trihydroxyphenyl)-3,3',4,4'-tetrahydro-[4,8'-bi-2H-1-benzopyran]-3,3',5',7,7'-pentol, 9CI

**(2R,2'R,3'S,4'S)-form**C₃₀H₂₆O₁₃ M 594.528**(2R,2'R,3'S,4'S)-form** [69127-10-2]*Robinetinidol(4α→8)gallocatechin*Isol. from bark of *Acacia mearnsii*.

5''-Deoxy: [69127-09-9]. 3,3',4',5',7-Pentahydroxyflavan(4→8)-3,3',4',5,7-pentahydroxyflavan. Robinetinidol(4α→8)catechin
 $C_{30}H_{26}O_{12}$ M 578.528
 Isol. from *A. mearnsii*.

(2R,2'R,3'S,4R)-form

5''-Deoxy: [78185-18-9]. Robinetinidol(4β→8)catechin
 $C_{30}H_{26}O_{12}$ M 578.528
 Isol. from *A. mearnsii*.

Botha, J.J. et al, *J. Chem. Soc., Perkin Trans. 1*, 1981, 1235; 1983, 17 (isol, synth)
 Shen, Z. et al, *CA*, 1992, **116**, 211109 (isol)

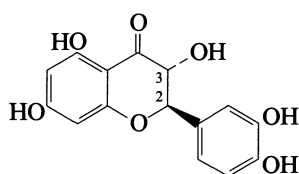
3,3',4',5,7-Pentahydroxyflavanone P-10050

Updated Entry replacing P-00517

3',4',5,7-Tetrahydroxydihydroflavonol. Dihydroquercetin.

Taxifolin. Distylin

[480-18-2]



(2R,3R)-form

$C_{15}H_{12}O_7$ M 304.256

▷ LD₅₀ (rat, ipr) 1200 mg/kg. LK6920000.

(2R,3R)-form [17654-26-1]

Appears to be the most widespread of the dihydroflavonols, present in the free state in the Leguminosae, Labiateae, Cactaceae, Erythroxylaceae, Illiciaceae, Polygonaceae, Salicaceae, Winteraceae, Ericaceae, Moraceae, Dilleniaceae, Eucryphiaceae, Coniferae, Hamamelidaceae, Myrtaceae, Balanophoraceae, Lauraceae, Sapotaceae, Anacardiaceae, Fagaceae, Rosaceae and Ericaceae. Antifungal agent. Cryst. (EtOH or H₂O). Mp 240-242° (221-222°). $[\alpha]_D^{24} + 44^\circ$ (c, 1.03 in 50% Me₂CO aq.).

Penta-Ac: [6685-67-2].

Cryst. Mp 88-89°. $[\alpha]_D^{24} + 11.6^\circ$ (c, 1.2 in Me₂CO).

3-O-α-L-Rhamnopyranoside: [29838-67-3]. **Astilbin**

$C_{21}H_{22}O_{11}$ M 450.398

Constit. of *Taxillus kaempferi*, *Vitis vinifera*, *Encryphia cordifolia*, *Astilbe*, *Quintinia*, *Litsea* spp. and others. Needles (EtOH). Mp 179-180°. $[\alpha]_D^{25} + 4^\circ$ (50% Me₂CO aq.).

3-O-β-D-Glucopyranoside: [27297-45-6]. **Glucodistylin**

$C_{21}H_{22}O_{12}$ M 466.398

Constit. of *Chamaecyparis obtusa*, *Pinus massoniana*, *Podocarpus* spp., *Aerides fieldingii*, *Zizyphus mummularia*. Mp 325° dec.

3-O-(6-O-Galloyl-β-D-glucopyranoside): [66656-93-7].

Taxillusin

$C_{28}H_{26}O_{16}$ M 618.504

Constit. of *T. kaempferi*.

3-O-β-D-Xylopyranoside: [75714-88-4].

$C_{20}H_{20}O_{11}$ M 436.371

Constit. of leaves of *Thujopsis dolabrata*. Amorph. powder. $[\alpha]_D - 8.4^\circ$ (c, 1.00 in Me₂CO).

4'-O-β-D-Glucopyranoside: [38690-65-2]. **Taxifolin 4'-glucoside**

$C_{21}H_{22}O_{12}$ M 466.398

Isol. from *Petunia hybrida* and *Urginea* sp. Fine needles (MeOH aq. or H₂O). Mp 218°. $[\alpha]_D^{21} - 40.1^\circ$ (MeOH).

7-O-β-D-Glucopyranoside: [14292-40-1].

$C_{21}H_{22}O_{12}$ M 466.398

Isol. from *Podocarpus* spp., *Robinsonia gracilis*, *Sorghum* spp.

5-O-β-D-Galactopyranoside: [81074-97-7].

$C_{21}H_{22}O_{12}$ M 466.398

Isol. from *Dillenia pentagyna*. Cryst. (EtOAc/pet. ether). Mp 79-82° dec.

7-O-β-D-Galactopyranoside: [72442-45-6].

$C_{21}H_{22}O_{12}$ M 466.398

Isol. from *Rhododendron* spp.

3,5-Di-O-α-L-Rhamnopyranoside: [74545-40-7].

$C_{27}H_{32}O_{15}$ M 596.541

Isol. from *Cordia obliqua*. Yellow needles (EtOH). Mp 148° dec.

3'-O-(6-O-Phenylacetyl-β-D-glucopyranoside): [95519-27-0].

$C_{29}H_{28}O_{13}$ M 584.532

Isol. from *Pinus massoniana*. Amorph. $[\alpha]_D^{22} - 21.6^\circ$ (c, 0.9 in MeOH).

3-O-β-D-Glucopyranosyl(1→4)-α-L-rhamnopyranoside: [81645-92-3].

$C_{27}H_{32}O_{16}$ M 612.540

Isol. from *Diospyros peregrina*. Yellow-brown cryst. (MeOH/Me₂CO). Mp 106-107°.

3'-O-β-D-Glucopyranoside: [31106-05-5].

$C_{21}H_{22}O_{12}$ M 466.398

Isol. from *Cedrus deodara*, *Pinus silvestris* and *Pseudotsuga menziesii*. Powder (H₂O). Mp 203-209°. $[\alpha]_D^{25} - 23^\circ$ (H₂O).

3-O-β-D-Galactopyranoside: [77122-69-1]. **Dihydrohyperin**.

Taxifolin 3-galactoside

$C_{21}H_{22}O_{12}$ M 466.398

Isol. from *Rhododendron* sp., *Betula lutea* and *Euphorbia* spp.

3-O-[β-D-Glucopyranosyl-(1→3)-α-L-rhamnopyranoside]:

[138822-69-2]. **Huangquioside E**

$C_{27}H_{32}O_{16}$ M 612.540

Isol. from the leaves of *Engelhardtia chrysolepis*. Needles + 2H₂O (MeOH aq.). Mp 229-231°. $[\alpha]_D^{25} - 20^\circ$ (c, 0.2 in EtOH).

3-O-[β-D-Galactopyranosyl-(1→6)-β-D-glucopyranoside]:

[141736-93-8].

$C_{27}H_{30}O_{18}$ M 642.523

Constit. of *Crotalaria prostrata*.

7-O-α-D-Glucopyranoside: [106400-39-9].

$C_{21}H_{22}O_{12}$ M 466.398

Constit. of the flowers of *Acacia latifolia*.

3-Ac: [78834-97-6]. **3-O-Acetyltaxifolin**

$C_{17}H_{14}O_8$ M 346.293

Isol. from *Baccharis varians*, *Inula viscosa* and *Tessaria dodoneifolia*. Cryst. (CHCl₃/EtOH). Mp 186-190°. $[\alpha]_D + 31.6^\circ$ (c, 0.75 in MeOH).

3-Me ether: 3',4',5,7-Tetrahydroxy-3-methoxyflavanone.

Hultenin

$C_{16}H_{14}O_7$ M 318.282

Isol. from heartwood of *Salix hultenii* var. *angustifolia*. Mp 208-209°. $[\alpha]_D^{19} + 6.69^\circ$.

4'-Me ether: [70411-27-7]. 3,3',5,7-Tetrahydroxy-4'-methoxyflavanone. 3',5,7-Trihydroxy-4'-methoxydihydroflavonol

$C_{16}H_{14}O_7$ M 318.282

Isol. from *Blumea balsamifera*. Light yellow powder. Mp 173-174°. $[\alpha]_D^{24} + 14.9^\circ$ (MeOH).

4'-Me ether, 3-rutinoside: [102904-44-9]. **Anacheiloside**

$C_{28}H_{34}O_{16}$ M 626.567

Isol. from *Anacheilium* sp.

3'-Me ether: [55812-91-4]. 3,4',5,7-Tetrahydroxy-3'-methoxyflavanone. 4',5,7-Trihydroxy-3'-methoxydihydroflavonol. **Dihydroisorhamnetin**

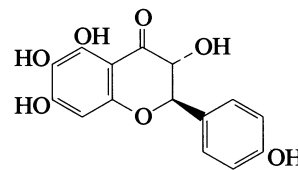
$C_{16}H_{14}O_7$ M 318.282

Isol. from *Dillenia indica*. Pale yellow cryst. (EtOH aq.). Mp 230°. $[\alpha]_D^{27} + 25^\circ$ (EtOH).

- 7-Me ether: [80453-44-7]. 3,3',4',5-Tetrahydroxy-7-methoxyflavanone. 3',4',5-Trihydroxy-7-methoxydihydroflavanol. **Padmatin**. Dihydroorhamnetin C₁₆H₁₄O₇ M 318.282
Isol. from *Artemisia* spp., *Inula viscosa*, *Prunus puddum* and *Trixis vautheri*. Cryst. (EtOH/CHCl₃). Mp 184-186°. [α]_D +17.3° (c, 1.1 in MeOH).
- 7-Me ether, 5-O- β -D-glucopyranoside: [93078-94-5]. C₂₂H₂₄O₁₂ M 480.424
Isol. from *Podocarpus nivalis*. [α]_D²¹ –84.3° (MeOH).
- 7-Me ether, 3-Ac: [100595-93-5]. 3-O-Acetylpadmatin C₁₈H₁₆O₈ M 360.320
Isol. from *Inula viscosa*. Cryst. (CHCl₃/EtOH). Mp 162-163°. [α]_D +41° (c, 0.84 in MeOH).
- 7-Me ether, 3-O- β -D-glucopyranoside: [34425-46-2]. C₂₂H₂₄O₁₂ M 480.424
Isol. from *Cassia javanica*. Cryst. (Me₂CO/MeOH). Mp 170°.
- 3',7-Di-Me ether: [37971-67-8]. 3,4',5-Trihydroxy-3',7-dimethoxyflavanone. 4',5-Dihydroxy-3',7-dimethoxydihydroflavanol C₁₇H₁₆O₇ M 332.309
Isol. from *Artemisia* spp., *Blumea balsamifera*, *Grindelia discoidea*, *Eupatorium* sp. and *Trixis vautheri*. Cryst. (Me₂CO/pet. ether). Mp 184-186°.
- 4',7-Di-Me ether: [79995-67-8]. 3,3',5-Trihydroxy-4',7-dimethoxyflavanone. 3',5-Dihydroxy-4',7-dimethoxydihydroflavanol C₁₇H₁₆O₇ M 332.309
Isol. from *Blumea balsamifera*. Light yellow powder. Mp 164-167°. [α]_D²⁴ +14.8° (MeOH).
- 7-O-(3-Methyl-2-butenyl): [78876-51-4]. 3,3',4',5-Tetrahydroxy-7-prenyloxyflavanone. 3',4',5-Trihydroxy-7-prenyloxydihydroflavanol C₂₀H₂₀O₇ M 372.374
Isol. from *Pterocaulon virgatum*.
- (2S,3R)-form**
Epitaxifolin
Amorph. [α]_D²⁰ +58.8° (c, 0.26 in Me₂CO).
3-O- β -D-Xylopyranoside: Constit. of *Thujaopsis dolabrata*. Amorph. [α]_D²⁴ +2.3° (c, 0.25 in Me₂CO).
3-O- α -L-Rhamnopyranoside: [54141-72-9]. **Isoastilbin** C₂₁H₂₂O₁₁ M 450.398
Constit. of *Engelhardtia chrysolepis*.
- (2R,3S)-form**
Amorph. [α]_D²⁰ –59.5° (c, 0.13 in Me₂CO).
3-O- β -D-Glucopyranoside: [83648-98-0]. **Isoglucodistylin** C₂₁H₂₂O₁₂ M 466.398
Constit. of *T. kaempferi*. Amorph. powder. Mp 169-171°. [α]_D²⁷ +25° (c, 0.3 in EtOH).
3-O- β -D-Xylopyranoside: Constit. of *T. dolabrata*. Amorph. [α]_D²¹ –93.3° (c, 0.89 in Me₂CO aq.).
3-O- α -L-Rhamnopyranoside: [54081-48-0]. **Neoisostilbin** C₂₁H₂₂O₁₁ M 450.398
Constit. of *E. chrysolepis*.
- (2S,3S)-form**
Needles. Mp 219-220°. [α]_D²¹ –20.6° (c, 0.32 in Me₂CO).
3-O- β -D-Xylopyranoside: Constit. of *T. dolabrata*. Amorph. powder. [α]_D²¹ –122.2° (c, 1.00 in Me₂CO).
3-O- α -L-Rhamnopyranoside: [54081-47-9]. **Neoastilbin** C₂₁H₂₂O₁₁ M 450.398
Constit. of *E. chrysolepis*.
3-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranoside]: [138876-25-2]. **Neohuangquioside E**
Synthetic. Powder. [α]_D¹⁸ –103° (c, 0.21 in EtOH).
- (2RS,3RS)-form**
Mp 234-236°.
- [5117-01-1, 63393-40-8, 64191-31-7, 64191-33-9, 82517-11-1, 83680-48-2, 117894-18-5]
Clark-Lewis, J.W. et al, *J. Chem. Soc.*, 1958, 2367 (struct, abs config)
Hergert, H.L. et al, *J. Org. Chem.*, 1958, **23**, 700 (3'-glucoside)
Chan, F.L. et al, *Talanta*, 1960, **3**, 272 (detn, Mo)
Aft, H. et al, *J. Org. Chem.*, 1961, **26**, 1958 (isol, deriv)
Birkofer, L. et al, *Z. Naturforsch., B*, 1962, **17**, 359 (4'-glucoside)
Batterham, T.J. et al, *Aust. J. Chem.*, 1964, **17**, 428 (pmr)
Grisebach, H. et al, *Z. Naturforsch., B*, 1965, **20**, 446 (biosynth)
Sasaya, T. et al, *CA*, 1966, **65**, 5435e (Hultenin)
Karrer, W. et al, *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd Ed., Birkhäuser Verlag, Basel, 1972-1985, 1637 (occur)
Pavanasasivam, G. et al, *J. Chem. Soc., Perkin Trans. 1*, 1975, 612 (Dihydroisorhamnetin)
Gaffield, W. et al, *J. Org. Chem.*, 1975, **40**, 1057 (Astilbins)
The Flavonoids, (Eds. Harborne, J.B. et al), Chapman and Hall, London, 1975, 585 (occur)
King, B.L., *Am. J. Bot.*, 1977, **64**, 250 (Dihydrohyperin)
Srivastava, S.K. et al, *Phytochemistry*, 1979, **18**, 2058 (dirhamnoside)
Agrawal, P.K. et al, *Phytochemistry*, 1980, **19**, 1260 (3'-glucoside)
Ruangrunsi, N. et al, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 541 (4'-Me and 4',7-Di-Me ethers)
Srivastava, S.D., *Phytochemistry*, 1981, **20**, 2445 (5-galactoside)
Sukurai, A. et al, *Bull. Chem. Soc. Jpn.*, 1982, **55**, 3051 (Isoglucodistylin)
Chauhan, J.S. et al, *Indian J. Chem., Sect. B*, 1982, **21**, 169 (deriv)
The Flavonoids: Advances in Research, (Eds. Harborne, J.B. et al), Chapman and Hall, London, 1982, 375 (occur)
Markham, K.R. et al, *Phytochemistry*, 1984, **23**, 2049 (7-glucosides)
Balza, F. et al, *Phytochemistry*, 1984, **23**, 2333 (3,4',5-Trihydroxy-3',7-dimethoxyflavanone)
Shen, Z. et al, *Phytochemistry*, 1985, **24**, 155.
Grande, M. et al, *Planta Med.*, 1985, 414 (3-acetyl deriv)
Ferreira, V.F. et al, *Biochem. Syst. Ecol.*, 1986, **14**, 199 (Acheiloside)
De Pascual Teresa, J. et al, *J. Nat. Prod. (Lloydia)*, 1986, **49**, 177 (7-Me ether)
Voirin, B. et al, *J. Nat. Prod. (Lloydia)*, 1986, **49**, 943 (7- α -D-glucoside)
Timmermann, B.N. et al, *Phytochemistry*, 1986, **25**, 723 (3',7-di-Me ether)
Nonaka, G. et al, *Chem. Pharm. Bull.*, 1987, **35**, 1105 (deriv)
Kasai, R. et al, *Chem. Pharm. Bull.*, 1988, **36**, 4167; 1991, **39**, 1871 (glucosylrhamnoside, 3-rhamnosides)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, DMD000.

3,4',5,6,7-Pentahydroxyflavanone P-10051

2,3-Dihydro-3,5,6,7-tetrahydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one. 4',5,6,7-Tetrahydroxydihydroflavanol. 6-Hydroxydihydrokaempferol



C₁₅H₁₂O₇ M 304.256

(2R,3R)-form

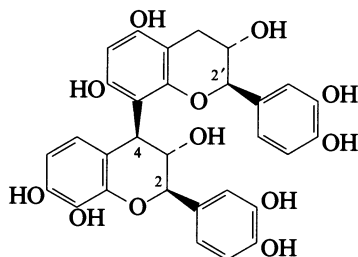
- 6-Me ether: [130926-73-7]. 3,4',5,7-Tetrahydroxy-6-methoxyflavanone C₁₆H₁₄O₇ M 318.282
Constit. of *Hymenoxys turneri*. [α]_D +46° (c, 1.2 in MeOH).
6-Me ether, 3-Ac: [130926-71-5]. 3-Acetoxy-4',5,7-trihydroxy-6-methoxyflavanone C₁₈H₁₆O₈ M 360.320

Constit. of *Hymenoxys turneri*. $[\alpha]_D + 66^\circ$ (c, 0.98 in MeOH).

Gao, F. *et al*, *Phytochemistry*, 1990, **29**, 2865.

**3,3',4',7,8-Pentahydroxyflavan(4→8)-
3,3',4',5,7-pentahydroxyflavan**

P-10052



$C_{30}H_{26}O_{12}$ M 578.528

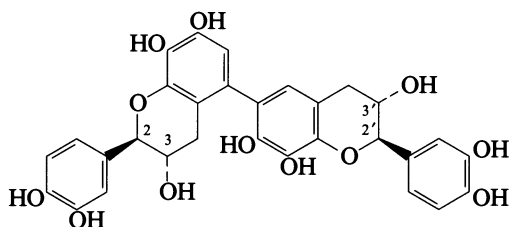
(2*R*,2'*R*,3*S*,3'*S*,4*S*)-form [109671-56-9] *Mesquitol*(4α→8)
catechin

Constit. of the heartwood of *Prosopis glandulosa*.

Young, E. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1986, 1737 (*isol*)

**3,3',4',7,8-Pentahydroxyflavan(5→6')-
3,3',4',7,8-pentahydroxyflavan**

P-10053



$C_{30}H_{26}O_{12}$ M 578.528

(2*R*,2'*R*,3*S*,3'*S*)-form [89613-25-2] (5,6')-*Bismesquitol*

Constit. of the heartwood of *Prosopis glandulosa*.

Young, E. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1986, 1737 (*isol*)

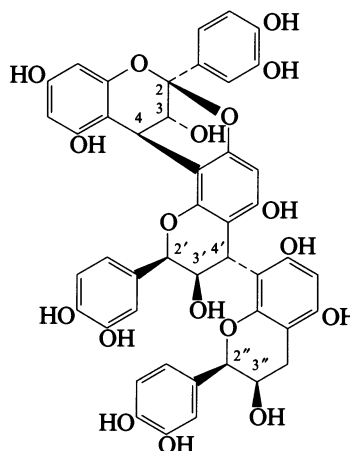
3,3',4',5,7-

**Pentahydroxyflavan(2→7,4→8)-
3,3',4',5,7-pentahydroxyflavan(4→8)-
3,3',4',5,7-pentahydroxyflavan**

P-10054

Updated Entry replacing P-00539

2,8-Bis(3,4-dihydroxyphenyl)-4-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]-3,4-dihydro-8,14-methano-2H,14H-1-benzopyrano[7,8-d][1,3]benzodioxocin-3,5,11,13,15-pentol, 9*CI*



(*all-R*)-form

$C_{45}H_{36}O_{18}$ M 864.769

(*all-R*)-form [88082-60-4]

Epicatechin(2β→7,4β→8)*epicatechin*(4β→8)*epicatechin*.

*Cinnamtannin B*₁

Isol. from *Aesculus hippocastanum*, *Cinnamomum sieboldii*, *C. zeylanicum*, *Kandelia candel*, *Lindera umbellata* and *Vaccinium vitis-idaea*. Off-white amorph. powder + 2H₂O. $[\alpha]_D^{25} + 70.3^\circ$ (c, 1.1 in Me₂CO).

(2*R*,2'*R*,2''*R*,3*R*,3'*R*,3''*S*,4*R*,4'*R*)-form [97233-06-2]

Epicatechin(2β→7,4β→8)*epicatechin*(4β→8)*catechin*.

*Cinnamtannin D*₁, *Pavetannin B*₂

Isol. from *C. sieboldii*, *L. umbellata*, *V. vitis-idaea* and *Pavetta owariensis*. Needles + 2H₂O (H₂O). Mp > 300°. $[\alpha]_D^{22} + 102.3^\circ$ (c, 0.9 in Me₂CO).

(2*R*,2'*S*,2''*R*,3*R*,3'*R*,3''*R*,4*R*,4'*S*)-form [114612-77-0]

Epicatechin(2β→7,4β→8)*ent-catechin*(4β→8)*epicatechin*.

Aesculitannin B

Isol. from *A. hippocastanum*. Off-white amorph. powder + 2H₂O. $[\alpha]_D^{21} + 52.8^\circ$ (c, 1.2 in Me₂CO).

(2*R*,2'*S*,2''*R*,3*R*,3'*S*,3''*S*,4*R*,4'*S*)-form [86631-43-8]

Catechin(2β→7,4β→8)-*ent-epicatechin*(4β→8)*catechin*

Isol. from *C. sp.*

(2*R*,2'*R*,2''*R*,3*R*,3'*R*,3''*R*,4*R*,4'*S*)-form

Epicatechin(2β→7,4β→8)-*epicatechin*(4α→8)-*epicatechin*.

*Pavetannin B*₂

Isol. from *P. owariensis*. Brown amorph. solid.

(2*R*,2'*R*,2''*S*,3*R*,3'*R*,3''*S*,4*R*,4'*S*)-form

Epicatechin(2β→7,4β→8)*epicatechin*(4α→8)-*ent-epicatechin*.

*Pavetannin B*₁

Isol. from the stem bark of *P. owariensis*. Light brown powder.

Nonaka, G. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1983, 2139 (*isol*)

Hsu, F.L. *et al*, *Chem. Pharm. Bull.*, 1985, **33**, 3142 (*isol*)

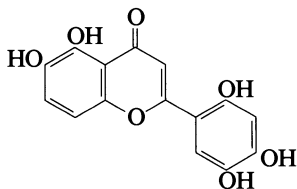
Morimoto, S. *et al*, *Chem. Pharm. Bull.*, 1985, **33**, 4338; 1987, **35**, 4717; 1988, **36**, 33 (*isol*)

Ezaki, N. *et al*, *Planta Med.*, 1985, 34 (*isol*)

Baldé, A.M. *et al*, *Phytochemistry*, 1991, **30**, 4129 (*Pavetannins*)

2',4',5,5',6-Pentahydroxyflavone

P-10055

C₁₅H₁₀O₇ M 302.240

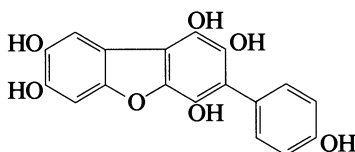
2',6-Di-Me ether: [133538-68-8]. 4',5,5'-Trihydroxy-2',6-dimethoxyflavone

C₁₇H₁₄O₇ M 330.293Constit. of *Teucrium quadrifarium*.Xie, N. *et al*, *CA*, 1990, **114**, 203515s.**1,2,4,7,8-Pentahydroxy-3-(4-hydroxyphenyl)dibenzofuran**

P-10056

Updated Entry replacing P-00595

3-(4-Hydroxyphenyl)-1,2,4,7,8-dibenzofuranpentol, 9CI

C₁₈H₁₂O₇ M 340.2891,2-Di-Ac: *BL V*C₂₂H₁₆O₉ M 424.363Constit. of the mushroom *Boletopsis leucomelas*. 5-Lipoxygenase inhibitor. Amorph. brown powder.1,2,4-Tri-Ac: [112209-53-7]. *BL IV*C₂₄H₁₈O₁₀ M 466.400Present in *B. leucomelaena* fruiting bodies. 5-Lipoxygenase inhibitor. Pale brown needles. Mp 242-245° dec.

1,2,4,7-Tetra-Ac: [112209-52-6].

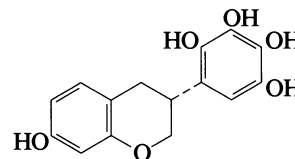
C₂₆H₂₀O₁₁ M 508.437Present in *B. leucomelaena*.

1,2,4,8-Tetra-Ac: [112209-54-8].

C₂₆H₂₀O₁₁ M 508.437Present in *B. leucomelaena*.1,2,4,4'-Tetra-Ac: *BL III*C₂₆H₂₀O₁₁ M 508.437Constit. of *B. leucomelas*. 5-Lipoxygenase inhibitor. Pale purple needles. Mp 194-196°.1,2,4,7,8-Penta-Ac: *BL II*C₂₈H₂₂O₁₂ M 550.475Constit. of *B. leucomelas*. 5-Lipoxygenase inhibitor. Needles. Mp 130-131°.*Hexa-Ac*: [112209-51-5]. *Protoleucomelone*. *BL I*C₃₀H₂₄O₁₃ M 592.512Isol. from *B. leucomelaena* fruiting bodies. 5-Lipoxygenase inhibitor. Needles. Mp 203-204°. Originally descr. as a benzoquinone.Jägers, E. *et al*, *Z. Naturforsch.*, **B**, 1987, **42**, 1349.Takahashi, A. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 3194 (*isol. struct*)**2',3',4',5',7-Pentahydroxyisoflavan**

P-10057

Updated Entry replacing P-00596

C₁₅H₁₄O₆ M 290.272**(R)-form**

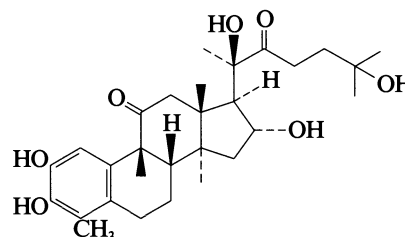
3',4'-Di-Me ether, 2',5'-di-O-β-D-glucopyranoside: [137217-85-7]. 2',5',7-Trihydroxy-3',4'-dimethoxyisoflavan 2',5'-di-O-β-D-glucopyranoside

C₂₉H₃₈O₁₆ M 642.610Constit. of the roots of *Astragalus mongholicus*. Needles. Mp 160-162°. [α]_D -17.7° (c, 0.3 in MeOH).

2',3',4'-Tri-Me ether: [139906-02-8]. 5',7-Dihydroxy-2',3',4'-trimethoxyisoflavan. 5'-Hydroxy-3'-methoxysativan

C₁₈H₂₀O₆ M 332.352Constit. of *Medicago sativa*. Mp 137-138°. [α]_D²⁷ +7.5° (c, 0.48 in CHCl₃).Subarnas, A. *et al*, *Phytochemistry*, 1991, **30**, 2777.Spencer, G.F. *et al*, *Phytochemistry*, 1991, **30**, 4147 (5'-Hydroxy-3'-methoxysativan)**2,3,16,20,25-Pentahydroxy-29-norcucurbita-1,3,5(10)-triene-11,22-dione**

P-10058

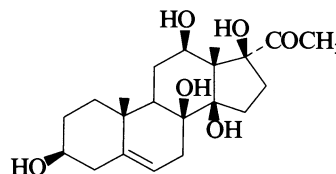
C₂₉H₄₂O₇ M 502.647**(16α,20R)-form**

2-O-β-D-Glucopyranoside, 25-Ac: [147742-04-9].

C₃₇H₅₄O₁₃ M 706.826Constit. of *Wilbrandia ebracteata*. Amorph. Mp 136-138°.Farias, M.R. *et al*, *Planta Med.*, 1993, **59**, 272 (*isol. pmr, cmr*)**3,8,12,14,17-Pentahydroxypregn-5-en-20-one**

P-10059

Updated Entry replacing P-00684

C₂₁H₃₂O₆ M 380.480**(3β,12β,14β,17βOH)-form**

Deacetylmetaplexigenin

Cryst. (Me₂CO). Mp 220-224°.12-Ac: [3513-02-8]. *Metaplexigenin*. *Genin F*C₂₃H₃₄O₇ M 422.517

Isol. from *Marsdenia rostrata* and *Sarcostemma viminale*. Mp 264°. $[\alpha]_D^{20}$ – 22.5° (MeOH).

12-Benzoyl: 12-O-Benzoyldesacetylmetaplexigenin. Genin G

$C_{28}H_{36}O_7$ M 484.588

From *S. viminale*. Mp 268-275°. $[\alpha]_D^{20}$ – 39.5° (MeOH).

12-(3,4-Dimethyl-2E-pentenol): [38395-02-7]. **Caudatin**

$C_{28}H_{42}O_7$ M 490.636

Constit. of *Cynanchum caudatum*. Cryst. Mp 158-160°, Mp 190-195°. $[\alpha]_D^{20}$ + 20.8° (c, 0.5 in $CHCl_3$).

12-(3,4-Dimethyl-2E-pentenol), 5 α ,6 α -epoxide: [61252-37-7]. **5 α ,6 α -Epoxycaudatin**

$C_{28}H_{42}O_8$ M 506.635

Constit. of *C. caudatum*. Cryst. (EtOAc/hexane). Mp 215-219.5°. $[\alpha]_D^{20}$ – 30° (c, 0.23 in MeOH).

12-(3-Pyridinecarboxyl): see *Rostratamine*, R-00391

12-Benzoyl, 3-O- $[\beta$ -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)-oleandropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside]:

Calotroposide B

$C_{63}H_{96}O_{22}$ M 1205.438

Constit. of the roots of *Calotropis gigantea*. Amorph. solid. $[\alpha]_D^{25}$ + 12.2° (c, 0.9 in $CHCl_3$).

12-Benzoyl, 3-O- $[\beta$ -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside]:

Calotroposide C

$C_{63}H_{96}O_{22}$ M 1205.438

Constit. of the roots of *C. gigantea*. Amorph. solid. $[\alpha]_D^{25}$ – 1.9° (c, 1.2 in $CHCl_3$).

12-Benzoyl, 3-O- $[\beta$ -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside]: **Calotroposide E**

$C_{56}H_{84}O_{19}$ M 1061.268

Constit. of the roots of *C. gigantea*. Amorph. solid. $[\alpha]_D^{25}$ – 1.6° (c, 1.4 in $CHCl_3$).

Mitsuhashi, H. *et al*, *Chem. Pharm. Bull.*, 1966, **14**, 712 (*struct*)

Schaub, F. *et al*, *Helv. Chim. Acta*, 1968, **51**, 738 (*isol*, *bibl*)

Yamagishi, T. *et al*, *Chem. Pharm. Bull.*, 1972, **20**, 625 (*isol*)

Summons, R.E. *et al*, *Phytochemistry*, 1972, **11**, 3335 (*isol*)

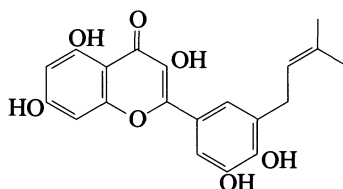
Bando, H. *et al*, *Chem. Pharm. Bull.*, 1980, **28**, 2258 (*isol*)

Kitagawa, I. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2007, 2647 (*Calotroposides*)

3,3',4',5,7-Pentahydroxy-5'-prenylflavone P-10060

3',4',5,7-Tetrahydroxy-5'-prenylflavonol. **Uralenol**

[139163-15-8]



$C_{20}H_{18}O_7$ M 370.358

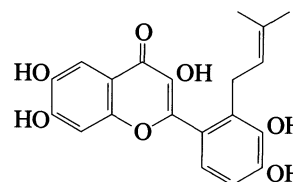
Constit. of the leaves of *Glycyrrhiza uralensis*.

Jia, S.S. *et al*, *Yaoxue Xuebao*, 1991, **25**, 758; *CA*, **117**, 86658 (*isol*)

3,3',4',6,7-Pentahydroxy-2'-prenylflavone P-10061

3',4',6,7-Tetrahydroxy-2'-prenylflavonol. **Neouralenol**

[139163-16-9]



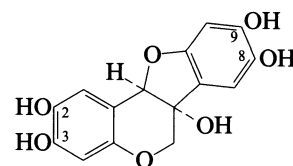
$C_{20}H_{18}O_7$ M 370.358

Constit. of the leaves of *Glycyrrhiza uralensis*.

Jia, S.S. *et al*, *Yaoxue Xuebao*, 1991, **25**, 758; *CA*, **117**, 86658 (*isol*)

2,3,6a,8,9-Pentahydroxypterocarpan P-10062

Updated Entry replacing P-00710



$C_{15}H_{12}O_7$ M 304.256

2-Me, 8,9-methylene ether: [99624-64-3]. 3,6a-Dihydroxy-2-methoxy-8,9-methylenedioxypterocarpan. **Hildecarpin**

$C_{17}H_{14}O_7$ M 330.293

Isol. from roots of *Tephrosia hildebrandtii*. Shows insect antifeedant and antifungal props.

3-Me, 8,9-methylene ether: 2,6a-Dihydroxy-3-methoxy-8,9-methylenedioxypterocarpan. **2-Hydroxypisatin**

$C_{17}H_{14}O_7$ M 330.293

Isol. from $CuCl_2$ -treated seedlings of *Pisum sativum*.

Phytotoxin. $[\alpha]_D^{28}$ + 216° (c, 0.3 in EtOH).

2,3-Di-Me, 8,9-methylene ether: [83159-18-6]. 6a-Hydroxy-2,3-dimethoxy-8,9-methylenedioxypterocarpan.

Lathycarpin

$C_{18}H_{16}O_7$ M 344.320

Phytoalexin from leaves of *Lathyrus sativus*. $[\alpha]_D^{21}$ + 232° (c, 0.012 in MeOH).

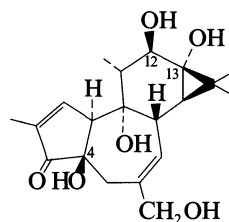
Ingham, J.L. *et al*, *Z. Naturforsch.*, C, 1982, **37**, 724 (*isol*, *uv*, *pnr*, *struct*, *abs config*, *Lathycarpin*)

Lwande, W. *et al*, *Insect Sci. Its Appl.*, 1985, **6**, 537; 1986, **7**, 501; *CA*, **104**, 31710; **106**, 15746 (*Hildecarpin*)

Kobayashi, A. *et al*, *Phytochemistry*, 1993, **22**, 77 (2-Hydroxypisatin)

4,9,12,13,20-Pentahydroxy-1,6-tigliadien-3-one P-10063

Updated Entry replacing P-00718



$C_{20}H_{28}O_6$ M 364.438

(4 β ,9 α ,12 β ,13 α)-form [17673-25-5] **Phorbol**

Produced by hydrolysis of cocarcinogens from croton oil (*Croton tiglium*) and from *Sapium* and *Euphorbia* spp. Cryst. + MeOH (MeOH). Mp 240-250°, Mp 250-251° dec. (solvent free). $[\alpha]_D^{20}$ + 118° (c, 0.4 in dioxan).

▷ Skin irritant. Esters are potent tumour-promoting agents. GZ0600000.

12-Tetradecanoyl, 13-Ac: [16561-29-8]. **Cocarcinogen A1.**

Cocarcinogen C3. PMA. TPA

$C_{36}H_{56}O_8$ M 616.834

Constit. of croton oil. Oil. $[\alpha]_D^{24} + 49^\circ$ (c, 1 in dioxan).

▷ Skin irritant. Tumour promoter. LD₅₀ (mus, ivn) 0.3 mg/kg. Exp. teratogen. GZ0630000.

12-Decanoyl, 13-Ac: [16561-27-6]. **Cocarcinogen A2**

$C_{32}H_{48}O_8$ M 560.726

Constit. of croton oil. Oil.

▷ Tumour promoter.

12-Dodecanoyl, 13-Ac: **Cocarcinogen A3**

$C_{34}H_{52}O_8$ M 588.780

Constit. of croton oil. Oil.

▷ Tumour promoter.

12-Hexadecanoyl, 13-Ac: [20839-12-7]. **Cocarcinogen A4**

$C_{38}H_{60}O_8$ M 644.887

Constit. of croton oil. Oil.

▷ Tumour promoter.

13-Dodecanoyl, 12-(2S-methylbutanoyl): [63040-44-8].

Cocarcinogen B1

$C_{37}H_{58}O_8$ M 630.860

Constit. of croton oil. Oil. $[\alpha]_D^{26} + 54^\circ$ (c, 1.8 in CHCl₃).

▷ Tumour promoter.

13-Decanoyl, 12-(2S-methylbutanoyl): [63040-43-7].

Cocarcinogen B2

$C_{35}H_{54}O_8$ M 602.807

Constit. of croton oil. Oil. $[\alpha]_D^{26} + 50^\circ$ (c, 1.3 in CHCl₃).

▷ Tumour promoter.

13-Decanoyl, 12-tigloyl: **Cocarcinogen B3**

$C_{35}H_{52}O_8$ M 600.791

Constit. of croton oil. Oil.

▷ Tumour promoter.

13-Dodecanoyl, 12-Ac: **Cocarcinogen B4**

$C_{34}H_{52}O_8$ M 588.780

Constit. of croton oil. Oil.

▷ Tumour promoter.

12-(2S-Methylbutanoyl), 13-octanoyl: **Cocarcinogen B5**

$C_{33}H_{50}O_8$ M 574.753

Constit. of croton oil. Oil.

▷ Tumour promoter.

13-Octanoyl, 12-tigloyl: **Cocarcinogen B6**

$C_{33}H_{48}O_8$ M 572.737

Constit. of croton oil. Oil.

▷ Tumour promoter.

13-Decanoyl, 12-Ac: [16561-28-7]. **Cocarcinogen B7**

$C_{32}H_{48}O_8$ M 560.726

Constit. of croton oil. Oil.

▷ Tumour promoter. GZ0617000.

12-(2Z,4E-Octadienoyl), 13-Ac: [64604-11-1]. **Euphorbia factor Ti₅**

$C_{30}H_{40}O_8$ M 528.641

Constit. of *E. tirucalli*.

12-(2Z,4E,6-Decatrienoyl), 13-Ac: [64626-48-8]. **Euphorbia factor Ti₆**

$C_{32}H_{42}O_8$ M 554.679

Constit. of *E. tirucalli*.

12-(2,4,6,8,10-tetradecapentaenoyl), 13-Ac: [64604-10-0]. **Euphorbia factor Ti₇**

$C_{36}H_{46}O_8$ M 606.755

Constit. of *E. tirucalli*.

12-(2,4,6,8-Tetradecatetraenoyl), 13-Ac: [64604-09-7]. **Euphorbia factor Ti₈**

$C_{36}H_{48}O_8$ M 608.770

Constit. of *E. tirucalli*.

13-(2,4,6,8,10-Tetradecapentaenoyl), 12-Ac: [64633-54-1].

Euphorbia factor Ti₉

$C_{36}H_{46}O_8$ M 606.755

Constit. of *E. tirucalli*.

(4 α ,9 α ,12 β ,13 α)-form [26241-63-4] **Isophorbol. 4 α -Phorbol**

$C_{20}H_{28}O_6$ M 364.438

Constit. of croton oil. Hygroscopic cryst. (EtOAc). Mp 135-150°.

Hecker, E., *Cancer Res.*, 1968, **28**, 2338 (*isol*)

Jacobi, P. et al, *Justus Liebigs Ann. Chem.*, 1970, **741**, 13

(*Isophorbol*)

Brandl, F. et al, *Acta Crystallogr., Sect. B*, 1971, **27**, 1718 (*cryst struct*)

Hecker, E. et al, *Prog. Chem. Org. Nat. Prod.*, 1974, **31**, 377 (*rev*)

Upadhyay, R.R. et al, *Phytochemistry*, 1976, **15**, 1070 (*isol*)

Kupchan, S.M. et al, *Science (Washington, D.C.)*, 1976, **191**, 571

(*isol*)

Tseng, S.-S. et al, *J. Org. Chem.*, 1977, **42**, 3645 (*Isophorbol*)

Taylor, S.E. et al, *Phytochemistry*, 1983, **22**, 1231 (*isol*)

Evans, F.J. et al, *Prog. Chem. Org. Nat. Prod.*, 1983, **44**, 1 (*rev*)

Marshall, G.T. et al, *J. Nat. Prod. (Lloydia)*, 1985, **48**, 823 (*pmr*)

Fürstenberger, G. et al, *J. Nat. Prod. (Lloydia)*, 1986, **49**, 386 (*isol*)

Naturally Occurring Phorbol Esters, (ed., Evans, F.J.), CRC Press, 1986 (*book*)

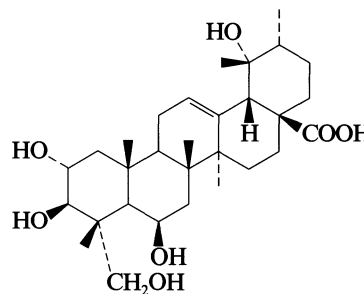
Wender, P.A. et al, *J. Am. Chem. Soc.*, 1990, **112**, 4956 (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th

Ed., Van Nostrand-Reinhold, 1992, PGS250, PGS500, PGU250,

PGU500, PGU000, PGV000.

2,3,6,19,23-Pentahydroxy-12-ursen-28-oic acid P-10064



$C_{30}H_{48}O_7$ M 520.705

(2 α ,3 β ,6 β ,19 α)-form

6,23-Dihydroxytormentic acid

Constit. of *Aphloia madagascariensis*. Powder. Mp 254-258°. $[\alpha]_D^{25} + 8^\circ$ (c, 0.1 in MeOH).

β -D-Glucopyranosyl ester:

$C_{36}H_{58}O_{12}$ M 682.847

Constit. of *A. madagascariensis*. Powder. Mp 205-208°.

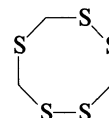
$[\alpha]_D^{25} - 8^\circ$ (c, 0.1 in MeOH).

Dijoux, M.-G. et al, *Phytochemistry*, 1993, **34**, 497 (*isol, pmr, cmr*)

1,2,4,5,7-Pentathiocane, 9CI P-10065

1,2,4,5,7-Pentathiacyclooctane

[81531-39-7]



$C_3H_6S_5$ M 202.410

Constit. of the seeds of *Parkia speciosa* and the mushroom

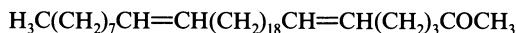
Lentinus edodes. Prisms (CHCl₃/hexane). Mp 102-104°.

Prod. from *Parkia* sp. may be the 1,2,3,5,7-

Pentathiocane isomeric compd. Data given above.

[81531-40-0]

Gmelin, R. *et al*, *Phytochemistry*, 1981, **20**, 2521 (*isol*)
 Holzmann, G. *et al*, *Org. Mass Spectrom.*, 1982, **17**, 165 (*ms*)
 Chen, C.C. *et al*, *J. Agric. Food Chem.*, 1986, **34**, 830 (*occur*)

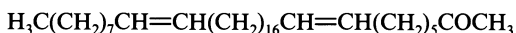
6,26-Pentatriacontadien-2-one, 9CI P-10066

$\text{C}_{35}\text{H}_{66}\text{O}$ M 502.906

(*Z,Z*)-form [133530-17-3]

Isol. from the snake *Boiga irregularis*.

Murata, Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 233 (*isol, pmr, cmr*)

8,26-Pentatriacontadien-2-one, 9CI P-10067

$\text{C}_{35}\text{H}_{66}\text{O}$ M 502.906

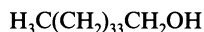
(*Z,Z*)-form [133530-18-4]

Isol. from the snake *Boiga irregularis*.

Murata, Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 233 (*isol*)

1-Pentatriacontanol, 9CI P-10068

[55517-90-3]



$\text{C}_{35}\text{H}_{72}\text{O}$ M 508.953

Constit. of *Erythrina stricta* bark and *Strobilanthes callosus* flowers. Cryst. (C_6H_6). Mp 91.5°.

[103215-65-2]

Jones, R.G., *J. Am. Chem. Soc.*, 1947, **69**, 2350 (*synth*)

Tasumi, M. *et al*, *Spectrochim. Acta*, 1964, **20**, 629 (*synth, ir*)

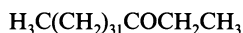
Ilyas, M. *et al*, *J. Indian Chem. Soc.*, 1979, **56**, 315 (*isol*)

Singh, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1981, **44**, 526 (*isol*)

Rao, S.J. *et al*, *Indian J. Chem., Sect. B*, 1987, **26**, 208 (*synth*)

3-Pentatriacontanone P-10069

[79097-22-6]



$\text{C}_{35}\text{H}_{70}\text{O}$ M 506.937

Constit. of the leaves and stems of *Hyoscamus muticus*.

Cryst. (Me_2CO). Mp 86-87°.

Goswami, A. *et al*, *Phytochemistry*, 1981, **20**, 1315 (*isol*)

4-Pentatriacontanone, 9CI P-10070

[92122-81-1]



$\text{C}_{35}\text{H}_{70}\text{O}$ M 506.937

Constit. of the leaves and stems of *Duboisia myoporoides*.

Cryst. (Me_2CO). Mp 74°.

Shukla, Y.N. *et al*, *Phytochemistry*, 1984, **23**, 799 (*isol, ir, pmr, ms*)

5-Pentatriacontanone P-10071

[70342-19-7]



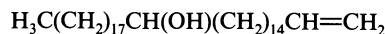
$\text{C}_{35}\text{H}_{70}\text{O}$ M 506.937

Constit. of the stem bark of *Ficus bengalensis*.

Subramanian, P.M. *et al*, *Pol. J. Pharmacol. Pharm.*, 1978, **30**, 559 (*isol*)

1-Pentatriaconten-17-ol, 9CI P-10072

[133956-30-6]



$\text{C}_{35}\text{H}_{70}\text{O}$ M 506.937

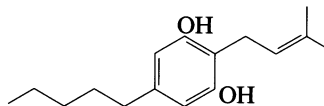
Constit. of the leaves of *Adenocalymma alliaceum*. Cryst. (Me_2CO). Mp 87-88°.

[133956-32-8]

Misra, T.N. *et al*, *Phytochemistry*, 1991, **30**, 541 (*isol*)

5-Pentyl-2-prenyl-1,3-benzenediol P-10073

2-(3-Methyl-2-butenyl)-5-pentyl-1,3-benzenediol



$\text{C}_{16}\text{H}_{24}\text{O}_2$ M 248.364

3-Me ether: [80489-92-5]. 3-Methoxy-5-pentyl-2-prenylphenol

$\text{C}_{17}\text{H}_{26}\text{O}_2$ M 262.391

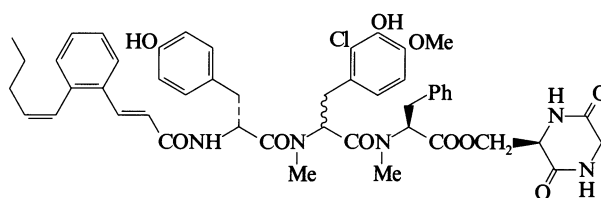
Isol. from the aerial parts of *Glycyrrhiza acanthocarpa*.

Oil. Bp_{0.1} 150° (bath).

Ghisalberti, E.L. *et al*, *Phytochemistry*, 1981, **20**, 1959.

Pepticinnamin P-10074

P-10074

**Pepticinnamin E**

Oligopeptide antibiotic complex. Only the struct. of the major component (E) has been elucidated. Prod. by *Streptomyces* sp. OH-4652. Farnesyl-protein transferase inhibitor.

Pepticinnamin A [147171-73-1]

$\text{C}_{49}\text{H}_{56}\text{ClN}_5\text{O}_{11}$ M 926.461

Powder. Mp 136-138°. $[\alpha]_D^{26}$ -98.9° (c, 0.3 in MeOH).

Pepticinnamin B [147171-74-2]

$\text{C}_{49}\text{H}_{56}\text{ClN}_5\text{O}_{11}$ M 926.461

Powder. Mp 134-137°. $[\alpha]_D^{26}$ -124.2° (c, 0.35 in MeOH).

Pepticinnamin C [147171-71-9]

$\text{C}_{49}\text{H}_{54}\text{ClN}_5\text{O}_{11}$ M 924.445

Powder. Mp 125-127°. $[\alpha]_D^{26}$ -151.9° (c, 0.8 in MeOH).

Pepticinnamin D [147171-72-0]

$\text{C}_{49}\text{H}_{55}\text{N}_5\text{O}_{10}$ M 874.001

Powder. Mp 137-139°. $[\alpha]_D^{26}$ -212.3° (c, 0.3 in MeOH).

Pepticinnamin E [147317-36-0]

$\text{C}_{49}\text{H}_{54}\text{ClN}_5\text{O}_{10}$ M 908.446

Powder. Mp 143-146°. $[\alpha]_D^{26}$ -207° (c, 0.8 in MeOH).

Pepticinnamin F [147171-70-8]

$\text{C}_{49}\text{H}_{53}\text{Cl}_2\text{N}_5\text{O}_{10}$ M 942.891

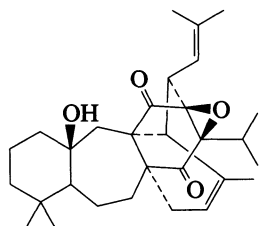
Powder. Mp 143-146°. $[\alpha]_D^{26}$ -193.5° (c, 0.7 in MeOH).

Omura, S. *et al*, *J. Antibiot.*, 1993, **46**, 222 (*isol, props*)

Shiomi, K. *et al*, *J. Antibiot.*, 1993, **46**, 229 (*struct, Pepticinnamin E*)

Peradione

P-10075



$C_{30}H_{42}O_4$ M 466.659
Constit. of *Perovskia abrotanoides*. Needles (MeOH). Mp 210°.

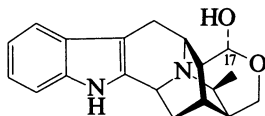
Ahmad, V.U. *et al*, *Tetrahedron Lett.*, 1993, **34**, 5337 (*isol*, *pmr*, *cmr*)

Peraksine

P-10076

Updated Entry replacing P-00807

17,19-Epoxy-19,20-dihydro-21-methyl-18-norsarpagan-17-ol, 9CI. *Vomifoline*. Alkaloid RP5 [15527-80-7]



Relative configuration

$C_{19}H_{22}N_2O_2$ M 310.395
Alkaloid from *Rauwolfia perakensis* and several other *R.* spp. (Apocynaceae). Cryst. (MeOH). Mp 186°, Mp 196-198°. $[\alpha]_D^{25} + 44^\circ$ (c, 0.86 in EtOH). The 17-config. is not clear from the crystallographic paper.

O-Ac: Mp 142°.

O-Benzoyl: Cryst. + $\frac{1}{2}$ H₂O (EtOH aq.). Mp 205-206°.

B,MeI: Needles (MeOH). Mp 310°.

17-Epimer: [20911-77-7]. Alkaloid RB20

$C_{19}H_{22}N_2O_2$ M 310.395

Alkaloid from *R. verticillata* (Apocynaceae). Prisms (CHCl₃/MeOH trace). Mp 196-197°. $[\alpha]_D + 19^\circ$ (c, 0.48 in MeOH).

Kiang, A.K. *et al*, *Tetrahedron*, 1966, **22**, 3293 (*uv*, *ms*, *pmr*, *cryst struct*)

Arthur, H.R. *et al*, *Aust. J. Chem.*, 1968, **21**, 1399 (*ms*, *pmr*, *struct*)

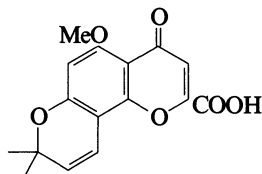
Habib, M.S. *et al*, *Phytochemistry*, 1974, **13**, 661 (*isol*, *uv*, *ir*, *ms*)

Pousset, J.-L. *et al*, *Phytochemistry*, 1977, **16**, 153 (*uv*, *ir*, *pmr*, *ms struct*)

Perforatic acid

P-10077

5-Methoxy-8,8-dimethyl-4-oxo-4H,8H-benzo[1,2-b:3,4-b']dipyran-2-carboxylic acid, 9CI. *Niu-Jing V* [94736-67-1]



$C_{16}H_{14}O_6$ M 302.283

Isol. from the roots of *Harrisonia perforata*. Exhibits antitumour activity.

[94736-66-0]

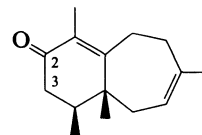
Wang, M. *et al*, *Yaoxue Xuebao*, 1984, **19**, 760; *CA*, **102**, 84297 (*isol*)

Wei, X. *et al*, *Jiegou Huaxue*, 1985, **4**, 281; *CA*, **106**, 18191 (*cryst struct*)

Perforenone

P-10078

Updated Entry replacing P-00817 [66113-28-8]



$C_{15}H_{22}O$ M 218.338

Constit. of *Laurencia perforata*. Oil. $[\alpha]_D - 120^\circ$.

2 α -Alcohol: [66113-20-0]. *Guadalupol*

$C_{15}H_{24}O$ M 220.354

Constit. of *L. snyderae*. Oil.

2 β -Alcohol: [66113-19-7]. *Epiguadalupol*

$C_{15}H_{24}O$ M 220.354

Constit. of *L. snyderae*. Oil.

3 α -Chloro: [57567-00-7]. *Perforenone B*

$C_{15}H_{21}ClO$ M 252.783

Constit. of *L. perforata*. Cryst. Mp 190°. $[\alpha]_D - 117^\circ$.

3 α -Hydroxy: [57566-99-1]. *Perforenone A*

$C_{15}H_{22}O_2$ M 234.338

Constit. of *L. perforata*. Mp 120-121°. $[\alpha]_D - 116^\circ$.

3 β -Hydroxy: [66141-71-7]. *Perforenone C*

$C_{15}H_{22}O_2$ M 234.338

Constit. of *L. perforata*. Cryst. Mp 67-68°. $[\alpha]_D - 29^\circ$.

Gonzalez, A.G. *et al*, *Tetrahedron Lett.*, 1975, 2499; 1977, 3375; 1978, 481 (*isol*, *struct*, *synth*)

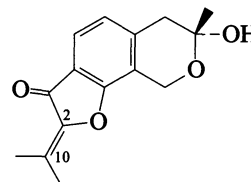
Howard, B.M. *et al*, *Phytochemistry*, 1979, **18**, 1229 (*Guadalupol*, *Epiguadalupol*)

Majetich, G. *et al*, *Heterocycles*, 1987, **25**, 271 (*synth*)

Pergillin

P-10079

6,9-Dihydro-7-hydroxy-7-methyl-2-(1-methylethylidene)-7H-furo[3,2-h][2]benzopyran-3(2H)-one, 9CI [74798-20-2]



$C_{15}H_{16}O_4$ M 260.289

Prod. by *Aspergillus ustus* growing on seeds of *Pisum sativum*. Plant growth inhibitor.

2,10-Dihydro: [81118-18-5]. *Dihydropergillin*

$C_{15}H_{18}O_4$ M 262.305

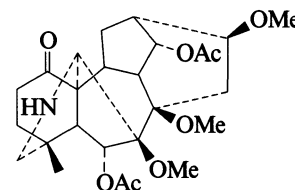
Prod. by *A. ustus*. Plant growth inhibitor. C-2 config. not determined.

Cutler, H.G. *et al*, *J. Agric. Food Chem.*, 1980, **28**, 989 (*isol*)

Pergilone

P-10080

[142609-20-9]



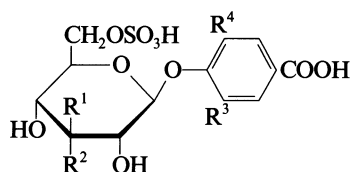
$C_{26}H_{37}NO_8$ M 491.580

Alkaloid from aerial parts of *Delphinium peregrinum* (Ranunculaceae). $[\alpha]_D^{25} +4.2^\circ$ (c, 0.1 in MeOH).

Ulubelen, A. *et al*, *Phytochemistry*, 1992, **31**, 1019 (*isol, ir, pmr, cmr, struct*)

Periodic leaf movement factors
P-10081

Updated Entry replacing K-00313

PLMF


- PLMF 1 $R^1 = R^3 = R^4 = OH, R^2 = H$
 PLMF 2 $R^1 = OSO_3H, R^2 = H, R^3 = R^4 = OH$
 PLMF 3 $R^1 = R^4 = OH, R^2 = R^3 = H$
 PLMF 4 $R^1 = OH, R^2 = R^3 = R^4 = H$
 PLMF 5 $R^1 = OH, R^2 = R^3 = H, R^4 = OMe$
 PLMF 6 $R^1 = H, R^2 = R^3 = R^4 = OH$

Isol. from *Acacia karroo*, *Gleditsia triacanthos* and other plants. Substances controlling thigmonastic and nyctinastic leaf movements.

PLMF 1 [80220-30-0]

3,5-Dihydroxy-4-[(6-O-sulfo- β -D-glucopyranosyl)oxy]benzoic acid, 9CI

$C_{13}H_{16}O_{13}S$ M 412.328

Isol. from *A. karroo*, *Mimosa pudica* and *G. triacanthos*.

PLMF 2 [84607-63-6]

4-[(3,6-Di-O-sulfo- β -D-glucopyranosyl)oxy]-3,5-dihydroxybenzoic acid, 9CI

$C_{13}H_{16}O_{16}S_2$ M 492.392

Isol. from *A. karroo*.

PLMF 3 [87687-74-9]

3-Hydroxy-4-[(6-O-sulfo- β -D-glucopyranosyl)oxy]benzoic acid, 9CI

$C_{13}H_{16}O_{12}S$ M 396.328

Isol. from *Oxalis stricta* and *G. triacanthos*.

PLMF 4 [87700-13-8]

4-[(6-O-Sulfo- β -D-glucopyranosyl)oxy]benzoic acid, 9CI

$C_{13}H_{16}O_{11}S$ M 380.329

Isol. from *G. triacanthos*.

PLMF 5 [94851-01-1]

3-Methoxy-4-[(6-O-sulfo- β -D-glucopyranosyl)oxy]benzoic acid, 9CI

$C_{14}H_{18}O_{12}S$ M 410.355

Isol. from *G. triacanthos*.

PLMF 6 [104075-62-9]

3,5-Dihydroxy-4-[(6-O-sulfo- β -D-allopyranosyl)oxy]benzoic acid, 9CI

$C_{13}H_{16}O_{13}S$ M 412.328

Isol. from *G. triacanthos*.

Schildknecht, H. *et al*, *Chem.-Ztg.*, 1981, **105**, 287; 1982, **106**, 421;

1983, **107**, 111, 233; 1984, **108**, 399 (*isol, pmr, cmr, ms*)

Schildknecht, A., *Angew. Chem., Int. Ed. Engl.*, 1983, **22**, 695.

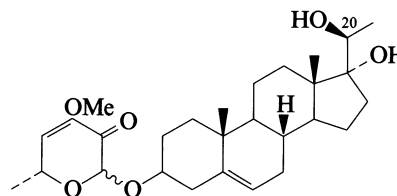
Schildknecht, H. *et al*, *Z. Naturforsch., C*, 1986, **41**, 547 (*isol, struct, synth*)

Schildknecht, H. *et al*, *Carbohydr. Res.*, 1987, **164**, 23 (*synth, PLMF 1*)

Periplocagenin
P-10082

2-[(17,20-Dihydroxypregn-5-en-3-yl)oxy]-4-methoxy-6-methyl-2H-pyran-3(6H)-one, 9CI

[112899-63-5]



$C_{28}H_{42}O_6$ M 474.636

Aglycone isol. from *Periploca sepium*. Needles

($C_6H_6/CHCl_3$). Mp 203-206°. $[\alpha]_D^{20} -51.2^\circ$ (c, 0.3 in MeOH).

20-O-(2,6-Dideoxy-arabino-hexopyranoside): [116782-73-1].

Periplocoside M

$C_{34}H_{52}O_9$ M 604.779

Constit. of *P. sepium*. Needles. Mp 195-197°. $[\alpha]_D -89.91^\circ$ (c, 0.23 in MeOH).

20-O-(2,6-Dideoxy-3-O-methoxymethyl-arabino-hexapyranoside): [116709-67-2]. **Periplocoside O**

$C_{36}H_{56}O_{10}$ M 648.832

Constit. of *P. sepium*. Powder. Mp 103-106°. $[\alpha]_D^{20} -84.0^\circ$ (c, 0.05 in MeOH).

20-O-[\mathit{\beta}-D-Cymaropyranosyl-(1 \rightarrow 5)-3,7-dideoxy-O-methyl- α -D-glucopyranosyl-(2 \rightarrow 4)-dioxo-(1 \rightarrow 3)- β -D-canaropyranoside]: [114828-47-6]. **Periplocoside C**

$C_{49}H_{76}O_{16}$ M 921.130

Constit. of *P. sepium*. Powder. Mp 180-182°. $[\alpha]_D^{20} -8.4^\circ$ (c, 0.3 in $CHCl_3$).

20-O-[\mathit{\beta}-D-Cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 5)-3,7-dideoxy-4-O-methyl- α -D-glucopyranosyl-(2 \rightarrow 4)-dioxo- β -D-canaropyranoside]: [115743-49-2]. **Periplocoside B**

$C_{56}H_{88}O_{19}$ M 1065.300

Constit. of *P. sepium*. Powder. Mp 136-138°. $[\alpha]_D^{20} +1.9^\circ$ (c, 0.2 in $CHCl_3$).

20-O-[2-O-Acetyl- β -D-digitalopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 5)-3,7-dideoxy-4-O-methyl- α -D-glucopyranosyl-(2 \rightarrow 4)-dioxo-(1 \rightarrow 3)- β -D-canaropyranoside]: [114828-46-5]. **Periplocoside A**

$C_{72}H_{114}O_{27}$ M 1411.676

Constit. of *P. sepium*. Powder. Mp 174-176°. $[\alpha]_D^{20} -1.2^\circ$ (c, 1.4 in $CHCl_3$).

20-O-[\mathit{\beta}-D-Digitalopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 5)-3,7-dideoxy-4-O-methyl- α -D-glucopyranosyl-(2 \rightarrow 4)-dioxo-(1 \rightarrow 3)- β -D-canaropyranoside]: [116709-64-9]. **Periplocoside D**

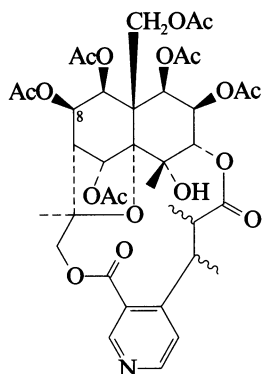
$C_{70}H_{112}O_{26}$ M 1369.639

Constit. of *P. sepium*. Powder. Mp 191-193°. $[\alpha]_D -3.08^\circ$ (c, 0.26 in $CHCl_3$).

Hokawa, H. *et al*, *Chem. Pharm. Bull.*, 1987, **35**, 4524; 1988, **36**, 982, 2084, 4441.

Peritassine A

[150881-01-9]

C₃₈H₄₇NO₁₈ M 805.785

Alkaloid from stems and bark of *Peritassa compta* (Celastraceae). Cryst. Mp 116-117°. [α]_D +24.6° (c, 0.07 in CHCl₃).

O⁸-De-Ac, O⁸-benzoyl: [150881-29-1]. **Peritassine B**C₄₃H₄₉NO₁₈ M 867.856

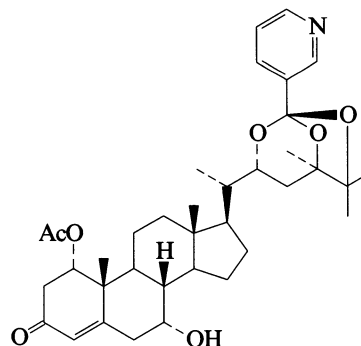
Alkaloid from stems and bark of *P. compta* (Celastraceae). Amorph. powder. Mp 148-150°. [α]_D -39.2° (c, 0.13 in CHCl₃).

Klass, J. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 946 (*isol, uv, ir, pmr, cmr, ms, struct*)

P-10083

Petunianine C

[149725-28-0]

C₃₆H₄₉NO₇ M 607.786

Constit. of *Petunia inflata*. Cryst. (EtOAc/heptane). Mp 182-184°. [α]_D +80° (c, 1 in CHCl₃).

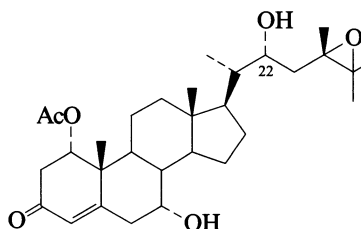
Elliger, C.A. et al, *Phytochemistry*, 1993, **33**, 471 (*isol, pmr, cmr*)

Petuniasterone B

P-10087

Updated Entry replacing P-00873

1α-Acetoxy-24,25-epoxy-7α,22-dihydroxyergost-4-en-3-one [114176-00-0]

C₃₀H₄₆O₆ M 502.690

Constit. of *Petunia hybrida*. Cryst. (EtOAc/heptane). Mp 191-192°. [α]_D²¹ +88.8° (CHCl₃).

22-Ac: *Petuniasterone B* 22-O-acetateC₃₂H₄₈O₇ M 544.727

Constit. of *P. hybrida*. Cryst. (EtOAc/heptane). Mp 195-196°. [α]_D²¹ +39.5° (CHCl₃).

22-O-[(Methylthio)carbonyl]acetyl: *Petuniasterone-B* 22-O-[(Methylthio)carbonyl]acetateC₃₄H₅₀O₈S M 618.830

Constit. of *P. hybrida*. Cryst. (MeOH). Mp 182-183°. [α]_D²¹ +65.7° (CHCl₃).

22-(3-Pyridinecarbonyl): *Petuniasterone B* 22-nicotinateC₃₆H₄₉NO₇ M 607.786

Constit. of *P. inflata*. [α]_D +68° (c, 1 in CHCl₃).

7,22-Bis-(3-pyridinecarbonyl): *Petuniasterone B* 7,22-dinicotinateC₄₂H₅₂N₂O₈ M 712.881

Constit. of *P. inflata*. [α]_D +21° (c, 0.45 in CHCl₃).

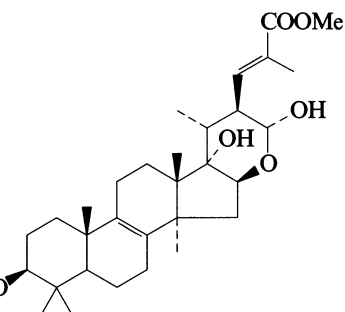
Elliger, C.A. et al, *J. Chem. Soc., Perkin Trans. 1*, 1988, 711.

Elliger, C.A. et al, *Phytochemistry*, 1993, **33**, 471 (*derivs*)

Peruvianoside A

[148530-00-1]

P-10084



Rha(1→2)Glc(1→2)GlcO

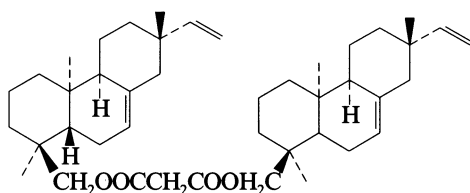
C₄₉H₇₈O₂₀ M 987.143

Constit. of *Scilla peruviana*. Amorph. powder. [α]_D -23.2° (MeOH).

Mimaki, Y. et al, *Chem. Lett.*, 1992, 1999 (*isol, pmr, cmr*)

Petiolate

P-10085

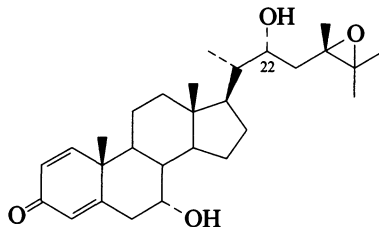
C₄₃H₆₄O₄ M 644.976

Constit. of *Calceolaria petioalaris*. Oil. [α]_D²⁵ -66° (c, 0.676 in CHCl₃).

Silva, P. et al, *Phytochemistry*, 1993, **34**, 449 (*isol, pmr, cmr*)

Petuniasterone C**P-10088**

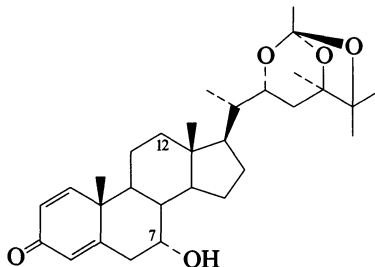
Updated Entry replacing P-00874

24,25-Epoxy-7,22-dihydroxyergosta-1,4-dien-3-one, 9CI
[114176-01-1] $C_{28}H_{42}O_4$ M 442.637Constit. of *Petunia hybrida*. Cryst. (EtOAc/heptane). Mp 183-185°. $[\alpha]_D^{21} + 31.7^\circ$ (CHCl₃).22-Ac: [114176-06-6]. *Petuniasterone C* 22-O-acetate $C_{30}H_{44}O_5$ M 484.675Constit. of *P. hybrida*. Oil. $[\alpha]_D^{21} + 40.3^\circ$ (CHCl₃).7,22-Di-Ac: *Petuniasterone C* 7,22-di-O-acetate $C_{32}H_{46}O_6$ M 526.712Constit. of *P. inflata*. $[\alpha]_D - 27^\circ$ (c, 0.13 in CHCl₃).

22-O-[(Methylthio)carbonyl]acetyl: [114176-05-5].

Petuniasterone C 22-O-[(methylthio)carbonyl]acetate $C_{32}H_{46}O_6S$ M 558.778Constit. of *P. hybrida*. Cryst. (EtOAc/heptane). Mp 141-142°. $[\alpha]_D^{21} + 17.4^\circ$ (CHCl₃).22-(3-Pyridinecarbonyl): *Petuniasterone C* 22-nicotinate $C_{34}H_{45}NO_5$ M 547.733Constit. of *P. inflata*. $[\alpha]_D^{20} + 25^\circ$ (c, 0.2 in CHCl₃).22-(3-Pyridinecarbonyl), 7-Ac: *Petuniasterone C* 22-nicotinate-7-acetate $C_{36}H_{47}NO_6$ M 589.770Constit. of *P. inflata*. $[\alpha]_D - 15^\circ$ (c, 0.5 in CHCl₃).7,22-Bis-(3-pyridinecarbonyl): *Petuniasterone C* 7,22-dinicotinate $C_{40}H_{48}N_2O_6$ M 652.829Constit. of *P. inflata*. $[\alpha]_D + 24^\circ$ (c, 0.25 in CHCl₃).Elliger, C.A. et al, *J. Chem. Soc., Perkin Trans. 1*, 1988, 711.Elliger, C.A. et al, *Phytochemistry*, 1993, 33, 471 (*derivs*)**Petuniasterone D****P-10089**

Updated Entry replacing P-00875

22,24,25-[Ethylidynetris(oxy)]-7-hydroxyergosta-1,4-dien-3-one, 9CI
[119259-63-1] $C_{30}H_{44}O_5$ M 484.675Constit. of *Petunia hybrida*. Cryst. (EtOAc/heptane). Mp 209-212°. $[\alpha]_D^{21} + 47.7^\circ$ (CHCl₃).12 α -Acetoxy, 7-Ac: [119259-67-5]. 12 α -

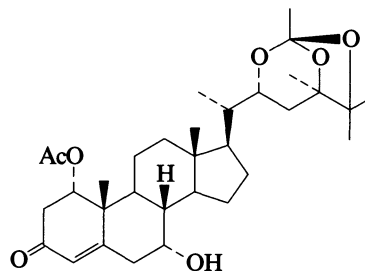
Acetoxypetuniasterone D 7-acetate

 $C_{34}H_{48}O_8$ M 584.748Constit. of *P. hybrida*. Cryst. (EtOAc/heptane). Mp 241-243°. $[\alpha]_D^{21} + 62.6^\circ$ (CHCl₃).11 β -Hydroxy, 12 ξ -acetoxy, 7-Ac: [126240-17-3]. 12-Acetoxy-7-O-acetyl-11-hydroxypetuniasterone D $C_{34}H_{48}O_9$ M 600.748Isol. from the leaves of *P. integrifolia*. $[\alpha]_D + 40^\circ$ (c, 1 in CHCl₃).

[119259-66-4, 119259-69-7]

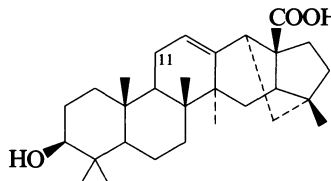
Elliger, C.A. et al, *J. Chem. Soc., Perkin Trans. 1*, 1989, 143.Elliger, C.A. et al, *Phytochemistry*, 1989, 28, 3443 (*deriv*)**Petuniasterone S****P-10090**

[149725-27-9]

 $C_{32}H_{48}O_7$ M 544.727Constit. of *Petunia inflata*.Elliger, C.A. et al, *Phytochemistry*, 1993, 33, 471 (*isol, pmr, cmr*)**Pfaffic acid****P-10091**

Updated Entry replacing P-00897

[86432-14-6]

 $C_{29}H_{44}O_3$ M 440.665Constit. of roots of *Pfaffia paniculata*. Antitumour agent.Needles (MeOH). Mp 285-286°. $[\alpha]_D^{22} + 109.2^\circ$ (c, 0.72 in CHCl₃).3-O- β -D-Glucuronopyranoside: [94662-71-2]. **Pfaffoside F** $C_{35}H_{52}O_9$ M 616.790Isol. from *P. paniculata*. Cryst. (MeOH/EtOAc). Mp 243-244°. $[\alpha]_D^{22} + 32.4^\circ$ (c, 0.32 in MeOH).3-O- $[\beta$ -D-Xylopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside]:[90745-17-8]. **Pfaffoside A** $C_{40}H_{60}O_{13}$ M 748.906Isol. from *P. paniculata*. Cryst. (MeOH/EtOAc). Mp 268°. $[\alpha]_D^{22} + 14.8^\circ$ (c, 1.85 in MeOH).3-O- β -D-Glucuronopyranoside, 28- β -D-glucopyranosyl ester:[90745-19-0]. **Pfaffoside C** $C_{41}H_{62}O_{14}$ M 778.932Isol. from *P. paniculata*. Cryst. (MeOH/EtOAc). Mp 225-226°. $[\alpha]_D^{22} + 19.7^\circ$ (c, 0.6 in MeOH).3-O- $[\beta$ -D-Xylopyranosyl-(1 \rightarrow 2)- β -D-(6-O-butylglucuronopyranoside)], 28- β -D-glucopyranosyl ester:[94662-72-3]. **Pfaffoside D** $C_{50}H_{78}O_{18}$ M 967.155Isol. from *P. paniculata*. Amorph.(MeOH/EtOAc/Et₂O). Mp 185°. $[\alpha]_D^{22} - 1.3^\circ$ (c, 0.42 in MeOH). Prob. artifact.3-O- $[\beta$ -D-Xylopyranosyl-(1 \rightarrow 2)- β -D-(6-O-methylglucuronopyranoside)], 28- β -D-glucopyranosyl ester:[94662-73-4]. **Pfaffoside E** $C_{47}H_{72}O_{18}$ M 925.075

Isol. from *P. paniculata*. Amorph. (MeOH/EtOAc/Et₂O). Mp 197-199°. [α]_D²² –1.5° (c, 0.48 in MeOH). Prob. artifact.

3-O-[β -D-Xylopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside], 28- β -D-glucopyranosyl ester: [90745-18-9]. **Pfaffoside B**
C₄₆H₇₀O₁₈ M 911.048

Isol. from *P. paniculata*. Cryst. (MeOH/EtOAc). Mp 255-260°. [α]_D²² –1.8° (c, 1.05 in MeOH).

28-O- β -D-Glucuronopyranosyl ester: [121324-63-8].

Pfaffoside G

C₃₅H₅₂O₉ M 616.790

Constit. of *P. pulverulenta*. Needles. Mp 187-190°. [α]_D +30° (c, 1 in MeOH).

3-Ketone: [121340-69-0]. **11-Deoxopulveric acid**

C₂₉H₄₂O₃ M 438.649

Constit. of *P. pulverulenta*. Needles. Mp 232-234°. [α]_D +78° (c, 0.3 in CHCl₃).

11-Oxo: [121324-61-6]. **11-Oxopulveric acid**

C₂₉H₄₂O₄ M 454.648

Isol. from *P. pulverulenta*. Needles. Mp 251-253°. [α]_D +56° (c, 1 in CHCl₃).

11-Oxo, 3-ketone: [121324-57-0]. **Pulveric acid**

C₂₉H₄₀O₄ M 452.633

Constit. of *P. pulverulenta*. Needles. Mp 279-281°. [α]_D +94° (c, 1 in MeOH).

11-Oxo, 3-ketone, 7 α -hydroxy: **7 α -Hydroxypulveric acid**

C₂₉H₄₀O₅ M 468.632

Constit. of *P. pulverulenta*. Cryst. (CHCl₃/C₆H₆). Mp 234-236°. [α]_D +57° (c, 0.8 in MeOH).

7,11-Dioxo, 3-ketone: **7-Oxopulveric acid**

C₂₉H₃₈O₅ M 466.616

Constit. of *P. pulverulenta*. Cryst. (CHCl₃/C₆H₆). Mp 300-302°. [α]_D +25° (c, 0.5 in CHCl₃).

Takemoto, T. *et al*, *Tetrahedron Lett.*, 1983, **24**, 1057 (*isol, cryst struct*)

Nishimoto, N. *et al*, *Phytochemistry*, 1984, **23**, 139 (*derivs*)

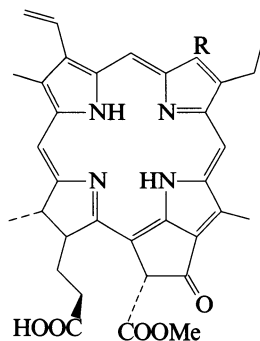
Nakai, S. *et al*, *Phytochemistry*, 1984, **23**, 1703 (*derivs*)

Shiobara, Y. *et al*, *Phytochemistry*, 1992, **31**, 1737; 1993, **33**, 897 (*cmr, Pfaffoside G, 11-Oxopulveric acid, Pulveric acid derivs*)

Phaeophorbide a

P-10092

Updated Entry replacing P-00900
Pheophorbide a₅, *Pheophorbide a*
[15664-29-6]



R = CH₃

C₃₅H₃₆N₄O₅ M 592.693

Chlorophyll degradation prod. Formed by enzymic hydrol. of Phaeophytin a, P-00902 by chlorophyllase, or by mild acid or alkaline hydrol. Blue-black cryst. (CHCl₃). [α]₂₀ –342° (Me₂CO).

Me ester: [5594-30-9]. *Methyl phaeophorbide a*

C₃₆H₃₈N₄O₅ M 606.720

Isol. from *Cupressus funebris*. Deep-blue-black microcryst. (CH₂Cl₂/MeOH). Mp 228°.

Strell, M. *et al*, *Angew. Chem.*, 1960, **72**, 169 (*synth*)

Kenner, G.W. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1973, 2517.

Smith, K.M. *et al*, *Tetrahedron*, 1975, **31**, 367 (*cmr*)

Smith, K.M. *et al*, *Tetrahedron Lett.*, 1981, **22**, 4873 (*pmr*)

Smith, K.M. *et al*, *J. Am. Chem. Soc.*, 1985, **107**, 4946 (*synth*)

Okazaki, T. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 3303 (*synth, cmr*)

Kobayashi, M. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 3348 (*isol, ester*)

Phaseolide A

P-10093

Triterpene glycoside of unknown struct. Constit. of *Phaseolus vulgaris*. No phys. props. given.

Chirva, V.Y. *et al*, *Khim. Prir. Soedin.*, 1970, **6**, 377; *Chem. Nat. Compd. (Engl. Transl.)*, 386.

Phaseolide B

P-10094

Tripertene glycoside of unknown struct. Constit. of *Phaseolus vulgaris*. No phys. props. given.

Chirva, V.Y. *et al*, *Khim. Prir. Soedin.*, 1970, **6**, 377; *Chem. Nat. Compd. (Engl. Transl.)*, 386.

Phaseolide C

P-10095

Triterpene glycoside of unknown struct. Constit. of *Phaseolus vulgaris*. No phys. props. given.

Chirva, V.Y. *et al*, *Khim. Prir. Soedin.*, 1970, **6**, 377; *Chem. Nat. Compd. (Engl. Transl.)*, 386.

Phaseothione

P-10096

Mercaptopeptide of unknown struct. Constit. of *Glycine max*, *Phaseolus limensis*, *P. vulgaris* and *Trifolium repens*.

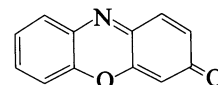
Price, C.A., *Nature (London)*, 1957, **180**, 148 (*isol*)

3H-Phenoxazin-3-one, 9CI

P-10097

3-Phenoxazone

[1916-63-8]



C₁₂H₇NO₂ M 197.193

Isol. from *Pycnoporus sanguineus*. Orange cryst. Mp 217-219° dec.

Kehrmann, F. *et al*, *Ber.*, 1902, **35**, 341 (*synth*)

Musso, H. *et al*, *Chem. Ber.*, 1957, **90**, 1814 (*w*)

Corbett, J.F., *Spectrochim. Acta*, 1965, **21**, 1411 (*synth, ir*)

Musso, H., *Chem. Ber.*, 1978, **111**, 3012 (*synth*)

Bolognese, A. *et al*, *J. Heterocycl. Chem.*, 1986, **23**, 1003 (*synth, w, pmr*)

Barret, R. *et al*, *Synth. Commun.*, 1990, **20**, 1543 (*synth*)

Achenbach, H. *et al*, *Arch. Pharm. (Weinheim, Ger.)*, 1991, **324**, 3 (*isol*)

N-2-Phenylethylcinnamamide

P-10098

Updated Entry replacing P-00986

3-Phenyl-N-(2-phenylethyl)-2-propanamide, 9CI

[55030-23-4]

PhCH=CHCONHCH₂CH₂Ph

C₁₇H₁₇NO M 251.327

2,3-Dihydro: [10264-31-0]. 3-Phenyl-N-(2-phenylethyl)propanamide

C₁₇H₁₉NO M 253.343

Isol. from *Simsia cronquistii*. Cryst. Mp 94-96°.

(E)-form [103188-43-8]

Alkaloid from the leaves of *Spilanthes ocyimifolia* (Compositae) and from *Oxytropis pseudoglandulosa* (Leguminosae). Also isol. from aerial parts of *Simsia cronquistii* (Compositae). Needles (cyclohexane). Mp 125-126°.

N-Me: [121817-38-7]. **Lansiumamide C**. N-Methyl-N-phenylethylcinnamamide

$C_{18}H_{19}NO$ M 265.354

Alkaloid from seeds of *Clausena lansium* (Rutaceae). Yellowish plates (Et₂O). Mp 58-59°.

Borges-del-Castillo, J. *et al*, *Phytochemistry*, 1984, **23**, 2671 (isol, ir, pmr, cmr, ms, struct)

Huneck, S. *et al*, *Fitoterapia*, 1986, **57**, 523 (isol)

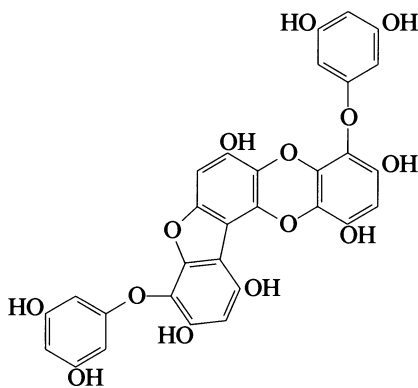
Lin, J.H. *et al*, *Phytochemistry*, 1989, **28**, 621 (Lansiumamide C)

Maldonado, E. *et al*, *Phytochemistry*, 1992, **31**, 1413 (3-Phenyl-N-(2-phenylethyl)propanamide)

Phlorofucofuroeckol A**P-10099**

4,9-Bis(3,5-dihydroxyphenoxy)benzo[b]benzofuro[3,2-f][1,4]benzodioxin-1,3,6,10,12-pentol, 9CI

[128129-56-6]



$C_{30}H_{18}O_{14}$ M 602.464

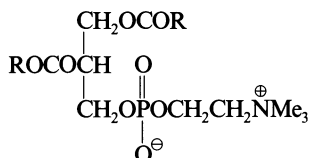
Phlorotannin. Isol. from the brown alga *Ecklonia kurome*. Potent anti-plasmin inhibitor. Amorph. solid.

Fukuyama, Y. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 133 (isol, pmr, cmr)

Phosphatidylcholine**P-10100**

Lecithin. Lecithol. Vitellin. Kelecine. Granulestin. 1,2-Diacylglycero-3-phosphorylcholine

[8002-43-5]



R = saturated or unsaturated fatty acids

First identified in egg yolk. Present in microorganisms and throughout the animal and vegetable kingdoms. Constit. of biol. membranes, involved in permeability, oxidative phosphorylation, phagocytosis and chemical and electrical excitation. Identified in animal tissues and

organs especially the brain, nervous system, liver, heart, lungs, kidneys, blood and sperm. The degree of unsaturation, chain length and position of the fatty acid results in distinct biol. props.

Kirk-Othmer Encycl. Chem. Technol., 3rd Ed., Wiley, N.Y., 1978-1984, **14**, 250 (rev, props, use, isol, activity)

Phosphine, 9CI, 8CI**P-10101**

Hydrogen phosphide. Phosphorus trihydride. Phosphorus hydride (PH₃). Phosphane

[7803-51-2]

PH₃H₃P M 33.997

Interatomic distances: P—H 141.5, 143.7 pm, angle: 93.3-93.8° (gas). At -140°, has f.c.c. struct. Synth. from Ca, Mg, Al, Zn, or Sn phosphides + H₂O or from yellow P + OH[⊖](aq.); or from P₄O₁₀ + LiAlH₄. Obt. by incubation of human faeces with a mixed bacterial culture under anaerobic conditions. Proposed as fumigant for cereals, flour, packaged foods. Detected in atm. of Saturn, Jupiter and Uranus. Colourless gas with garlic-like odour. Extremely weak base. V. sol. H₂O (giving neutral soln.). d₄⁻¹³⁵ 0.896, d₄⁻⁹⁰ 0.746. Mp -132.5°. Bp -87°. Dec. noticeably only at > 550°. Forms complexes with boron hydrides and halides. Solid form exhibits transitions at -263°, -243°, -224°, -185°.

▷ Extremely poisonous. Ignites in dry air at ca. 150° or spont. at r.t. if P₂H₄ present. SY7525000.

BHCl₂ adduct (1:1):

BCl₂H₄P M 116.722

Cryst. Mp ~68°.

BCl₃ adduct (1:1):

BCl₃H₃P M 151.167

Colourless, well-defined cryst.

BBr₃ adduct (1:1):

BBr₃H₃P M 284.520

Synth. from components at r.t. Solid.

Gmelin Handbook Inorg. Chem., Syst. No. 16, 1965, C, 7 (rev, bibl)
Fluck, E., *Fortschr. Chem. Forsch.*, 1969, **13**, 125; 1973, **35**, 1 (rev, bibl)

Mellor Compr. Treat. Inorg. Theor. Chem., Longman, London, 1971, **8/III**, 272 (rev)

Francia, M.D. *et al*, *J. Chem. Phys.*, 1973, **58**, 1061 (ir)

Brauer, G., *Handbuch Präp. Anorg. Chem.*, 3rd Ed., Ferdinand Enke Verlag, 1975-1981, **1**, 510 (synth)

Huang, T.H. *et al*, *J. Phys. Chem. Solids*, 1977, **38**, 897 (ir, raman)

Jameson, A.K. *et al*, *J. Magn. Reson.*, 1978, **32**, 455 (P-31 nmr)

Friedrich, H. *et al*, *Chem. Phys. Lett.*, 1979, **64**, 360 (pe)

Dolenko, G.N. *et al*, *Zh. Strukt. Khim.*, 1979, **20**, 334; *J. Struct. Chem. (Engl. Transl.)*, 1979, **20**, 279 (x-ray fluorescence)

Baldacca, A. *et al*, *J. Mol. Spectrosc.*, 1980, **81**, 179 (ir)

Tarrago, G. *et al*, *J. Mol. Spectrosc.*, 1981, **88**, 311 (ir)

Ishiguro, E. *et al*, *J. Phys. B: At., Mol. Opt. Phys.*, 1987, **20**, 4725 (photoabs spectrum)

Gassmann, G. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1993, **32**, 761 (synth)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, PGY000.

Phosphoenolpyruvic acid**P-10102**

2-(Phosphonooxy)-2-propenoic acid, 9CI. 2-Hydroxyacrylic acid dihydrogen phosphate, 8CI. PEP

[138-08-9]



$C_3H_5O_6P$ M 168.043

Isol. from floral buds of *Bauhinia variegata* and leaves of *B. purpurea*. Metab. intermed.

Monocyclohexylammonium salt: [10526-80-4].

Cryst. (MeOH/Et₂O). Mp 143-146° dec.

Tris(cyclohexylammonium) salt: [35556-70-8].

Solid. Mp 197-198° dec.

Et ester: [22065-56-1]. *Ethyl 2-(phosphonoxy)-2-propenoate*

C₅H₉O₆P M 196.096

Cryst. (MeOH/Et₂O) as biscyclohexylammonium salt.

Mp 184-185°.

Amide, P,P-dibenzyl ester: 2-[(Dibenzoyloxyphosphinyl)oxy]-2-propenoamide

C₁₇H₁₈NO₅P M 347.307

Solid. Mp 48-50°.

Tris(trimethylsilyl) ester: Trimethylsilyl 2-

[bis(trimethylsilyloxy)phosphinyl]oxy-2-propenoate

C₁₂H₂₉O₆PSi₃ M 384.588

Liq. Bp_{2.2} 112-116°.

Ferdman, D.L. *et al*, *Science* (Washington, D.C.), 1940, **91**, 365 (synth)

Lardy, H.A. *et al*, *J. Biol. Chem.*, 1945, **159**, 343 (biosynth)
Biochem. Prep., 1966, **11**, 101 (synth)

Benkovic, S.J. *et al*, *Biochemistry*, 1968, **7**, 4090, 4097 (props)

Cohn, M. *et al*, *J. Am. Chem. Soc.*, 1970, **92**, 4095 (pmr)

Stubbs, J.A. *et al*, *Biochemistry*, 1972, **11**, 338 (derivs)

Watson, D.G. *et al*, *Acta Crystallogr., Sect. B*, 1973, **29**, 2358 (cryst struct)

Harvey, D.J. *et al*, *J. Chromatogr.*, 1973, **76**, 51 (gc)

Mukherjee, D. *et al*, *J. Indian Bot. Soc.*, 1975, **54**, 207; *CA*, **86**, 13941h (isol)

Vogeli, U. *et al*, *Org. Magn. Reson.*, 1975, **7**, 617 (ester, pmr, cmr)

Mukherjee, D. *et al*, *Experientia*, 1977, **33**, 304 (isol)

Davies, D.D., *Annu. Rev. Plant Physiol.*, 1979, **30**, 131 (rev)

Katti, S.K. *et al*, *Acta Crystallogr., Sect. B*, 1981, **37**, 834 (cryst struct)

Sekine, M. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1982, 2509 (synth, pmr, derivs)

Bartlett, P.A. *et al*, *J. Org. Chem.*, 1983, **48**, 3854 (synth)

Kluger, R. *et al*, *J. Am. Chem. Soc.*, 1984, **106**, 4017 (derivs)

Phospholipase A₂

P-10103

Human pancreatic juice activation peptide

[81317-15-9]

H-Asp-Ser-Gly-Ile-Ser-Pro-Arg-OH

C₂₉H₅₀N₁₀O₁₂ M 730.774

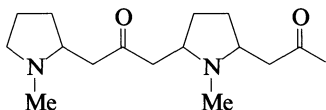
Constit. of the protein yielding active phospholipase A₂.

Grataroli, R. *et al*, *Eur. J. Biochem.*, 1982, **122**, 111 (struct)

Phygrine

P-10104

[148139-97-3]



C₁₆H₂₈N₂O₂ M 280.409

Alkaloid from roots and aerial parts of *Physalis alkekengi*,

P. angulata, *P. philadelphica*, *P. ixocarpa*, *P. edulis*, *P.*

peruviana, *P. minima*, *P. pubescens*, *P. viscosa* and *P.*

pruinosa (Solanaceae). Gum.

Dipicrate: [148218-52-4].

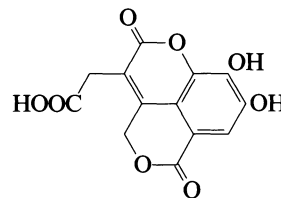
Mp 189° dec.

Basey, K. *et al*, *Phytochemistry*, 1992, **31**, 4173 (isol, ir, pmr, cmr, ms, struct)

Phyllanthusiin E

P-10105

[142674-53-1]



C₁₃H₈O₈ M 292.201

Isol. from the leaf of *Phyllanthus flexuosus*. Brown amorph. powder + 1H₂O.

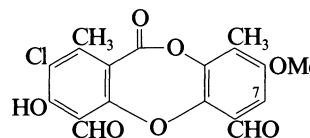
Yoshida, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 53 (uv, pmr, cmr)

Phyllopsorin

P-10106

2-Chloro-3-hydroxy-8-methoxy-1,9-dimethyl-11-oxo-11H-dibenzo[b,e][1,4]dioxepin-4,6-dicarboxaldehyde, 9CI

[131840-46-5]



C₁₈H₁₃ClO₇ M 376.749

Depsidone. Constit. of *Phyllopsora corallina*. Cryst. (EtOAc). Mp 233.5°.

7-Chloro: [131877-33-3]. **Chlorophyllopsorin**

C₁₈H₁₂Cl₂O₇ M 411.194

Constit. of *P. corallina*. Cream cryst.

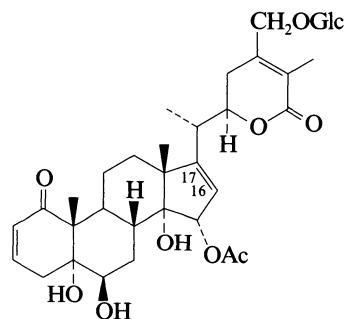
(CH₂Cl₂/cyclohexane). Mp 228-229°.

Elix, J.A. *et al*, *Aust. J. Chem.*, 1990, **43**, 1953 (isol, pmr)

Physagulin E

P-10107

[148054-13-1]



C₃₆H₅₀O₁₄ M 706.783

Constit. of *Physalis angulata*. Powder. [α]_D +56.7° (c, 0.66 in MeOH).

16β,17β-Epoxide: [148076-22-6]. **Physagulin G**

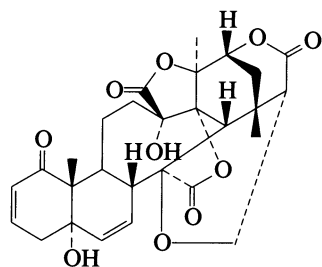
C₃₆H₅₀O₁₅ M 722.782

Constit. of *P. angulata*. Powder. [α]_D +31.3° (c, 0.76 in MeOH).

Shinga, K. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2448 (isol, pmr, cmr)

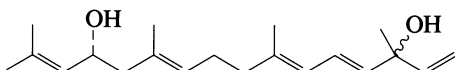
Physalin P

P-10108

C₂₈H₃₀O₁₀ M 526.539Constit of *Physalis alkekengi*. Needles (EtOAc/C₆H₆). Mp 272-273°. [α]_D²⁴ +54° (c, 0.25 in Me₂CO).Kawai, M. *et al*, *Bull. Chem. Soc. Jpn.*, 1993, **66**, 1299 (*isol*, *pmr*, *cmr*)

1,4,6,10,14-Phytapentaene-3,13-diol

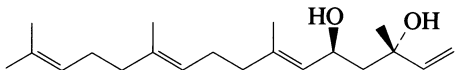
P-10109

C₂₀H₃₂O₂ M 304.472(3*ξ*,4*E*,6*E*,10*E*,13*R*)-form [149415-82-7]Constit. of *Myrmekioderma styx*. Oil. [α]_D +4.6° (c, 0.002 in hexane).Albrizio, S. *et al*, *Z. Naturforsch., B*, 1993, **48**, 488 (*isol*, *pmr*, *cmr*)

1,6,10,14-Phytatetraene-3,5-diol

P-10110

Updated Entry replacing P-01182

3,7,11,15-Tetramethyl-1,6,10,14-hexadecatetraene-3,5-diol, 9*CI*C₂₀H₃₄O₂ M 306.487(3*S*,5*S*,6*E*,10*E*)-form [84093-63-0] 5-HydroxygeranyllinalolConstit. of *Geigeria burkei* and *Myrmekioderma styx*. Gum. [α]_D +17.65° (c, 0.005 in hexane).

9-Acetoxy: 9-Acetoxy-5-hydroxygeranyllinalol

C₂₂H₃₆O₄ M 364.524Constit. of *G. burkei*. Gum.

9-Acetoxy, 5-Ac: [84093-65-2]. 5,9-Diacetoxygeranyllinalol

C₂₄H₃₈O₅ M 406.561Constit. of *G. burkei*. Gum.

13-Acetoxy: [84093-66-3]. 13-Acetoxy-5-hydroxygeranyllinalol

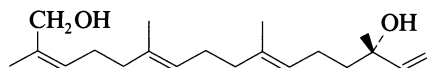
C₂₂H₃₆O₄ M 364.524Constit. of *G. burkei*. Gum.Bohlmann, F. *et al*, *Phytochemistry*, 1982, **21**, 1679.Albrizio, S. *et al*, *Z. Naturforsch., B*, 1993, **48**, 488 (*struct*)

1,6,10,14-Phytatetraene-3,17-diol

P-10111

Updated Entry replacing P-01185

2,6,10,14-Tetramethyl-2,6,10,15-hexadecatetraene-1,14-diol

C₂₀H₃₄O₂ M 306.487(3*S*,6*E*,10*E*,14*Z*)-form

20-Hydroxygeranyllinalool

Constit. of *Nicotiana sylvestris*. Oil. [α]_D +9° (c, 1 in CHCl₃).

3,17-Di-O-β-D-glucopyranoside: Lyciumoside I

C₃₂H₅₄O₁₂ M 630.771Constit. of *Lycium chinense*. Powder. [α]_D²⁷ -21.0° (c, 0.5 in MeOH).

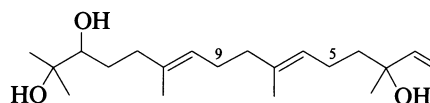
3-O-β-D-Glucopyranoside, 17-O-[β-D-glucopyranosyl(1→2)-β-D-glucopyranoside]: Lyciumoside II

C₃₈H₆₄O₁₇ M 792.913Constit. of *L. chinense*. Powder. [α]_D²⁶ -19.6° (c, 0.49 in MeOH).Wallin, I. *et al*, *Acta Chem. Scand., Ser. B*, 1980, **34**, 391.Yahara, S. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 703 (*Lyciumosides*)

1,6,10-Phytatriene-3,14,15-triol

P-10112

Updated Entry replacing P-01206

2,6,10,14-Tetramethyl-6,10,15-hexadecatriene-2,3,14-triol, 9*CI*C₂₀H₃₆O₃ M 324.503(3*ξ*,6*E*,10*E*,14*ξ*)-form [84093-67-4] 14,15-Dihydro-14,15-dihydroxygeranyllinalolConstit. of *Geigeria burkei*. Gum.

5-Hydroxy: [84093-68-5]. 1,6,10-Phytatriene-3,5,14,15-tetral. 2,6,10,14-Tetramethyl-6,10,15-hexadecatriene-2,3,12,14-tetrol

C₂₀H₃₆O₄ M 340.502Constit. of *G. burkei*. Gum.

9-Acetoxy: [84093-69-6].

C₂₂H₃₈O₅ M 382.539Constit. of *G. burkei*. Gum.(3*S*,6*E*,10*E*,14*ξ*)-form

3,14-Di-O-β-D-glucopyranoside: Lyciumoside III

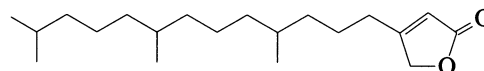
C₃₂H₅₆O₁₃ M 648.787Constit. of *Lycium chinense*. Powder. [α]_D²⁶ -31.1° (c, 0.48 in MeOH).Bohlmann, F. *et al*, *Phytochemistry*, 1982, **21**, 1739.Yahara, S. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 703 (*Lyciumoside III*)

2-Phyten-1,20-olide

P-10113

4-(4,8,12-Trimethyltridecyl)-2-(5H)-furanone. Luffarin X

[145398-74-9]

C₂₀H₃₆O₂ M 308.503Constit. of *Luffariella geometrica*. Oil. [α]_D²⁰ +13.2° (c, 0.7 in CHCl₃).Butler, M.S. *et al*, *Aust. J. Chem.*, 1992, **45**, 1705 (*isol*, *pmr*, *cmr*)

Phytochrome

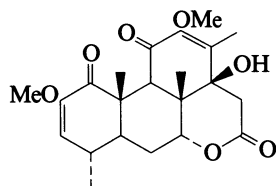
P-10114

Consists of an open-chain tetrapyrrole chromophore and a protein moiety. Visual pigment and photoreceptor of plants.

Ruediger, W. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1991, **30**, 1216 (*rev*)

Picrasinol C

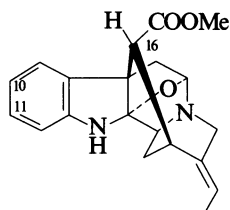
[35598-72-2]

C₂₂H₂₈O₇ M 404.459Constit. of *Picrasma ailanthoides*. Amorph. solid. Mp 137-139°. [α]_D²³ +8° (c, 0.2 in CHCl₃).Daido, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1643 (*isol*, *pmr*, *cmr*)**Picrinine**

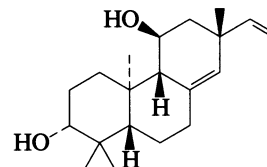
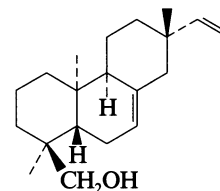
Updated Entry replacing P-01238

Methyl 2,5-epoxy-1,2-dihydroakuammilan-17-oate, 9CI.
Deacetyldeformylpicraline. Vincaridine

[4684-32-6]

C₂₀H₂₂N₂O₃ M 338.405Alkaloid from *Alstonia scholaris*, *A. macrophylla*, *Vinca minor*, *V. erecta*, *V. libanotica*, *Rauwolfia vomitoria*, *R. cumminsii* and *R. oreogiton* (Apocynaceae). Needles (Me₂CO). Mp 223-225° dec. [α]_D²⁵ -44° (CHCl₃). pK_a 5.72 (EtOH aq.).*Picrate*: Mp 172-174° dec.*B,MeI*: Mp 235-237° dec.*16-Epimer*: [38801-86-4]. *Picralstonine*C₂₀H₂₂N₂O₃ M 338.405Alkaloid from the leaves of *A. macrophylla* (Apocynaceae). Granules (Me₂CO). Mp 200°. [α]_D²⁵ -90° (CHCl₃).*N^a-Me*: [18223-72-8]. *Ervincine*C₂₁H₂₄N₂O₃ M 352.432Alkaloid from *V. erecta* (Apocynaceae). Mp 156-157°. [α]_D²⁵ +93° (c, 0.2 in CHCl₃).*10,11-Dimethoxy*: [74991-69-8]. *Volkensine*†. *N^a-Demethylquaternine. Norquaternine*C₂₂H₂₆N₂O₅ M 398.458Alkaloid from the leaves of *R. oreogiton* and *R. volkensii* and the trunk bark of *A. legouixiae* (Apocynaceae). Needles. Mp 280°. [α]_D²⁰ -63.4° (c, 0.1 in CHCl₃).*10,11-Dimethoxy, N^a-Me*: [57499-02-2]. *Quaternine*.*Alstopicralamine*C₂₃H₂₈N₂O₅ M 412.485Alkaloid from *A. quaternata*, the leaves of *R. oreogiton*, *R. volkensii*, the trunk bark of *A. legouixiae* and from leaves of *A. macrophylla* (Apocynaceae). Cryst. (MeOH). Mp 153°. [α]_D²⁰ -27° (c, 0.4 in CHCl₃), [α]_D²⁰ +3.33°. Samples not compared. The +ve opt. rotn. refers to Alstopicralamine.*ar-Methoxy, N^a-Me*: [57515-71-6]. *Quaternidine. Methyl 2,5-epoxy-1,2-dihydro-ar-methoxy-1-methylakuammilan-17-oate, 9CI*C₂₂H₂₆N₂O₄ M 382.458**P-10115**Alkaloid from *A. quaternata* (Apocynaceae). Oil. [α]_D²⁰ -85° (c, 0.4 in CHCl₃). Exact posn. of OMe subn. not detd.

[27501-23-1]

Britten, A.Z. *et al*, *J. Chem. Soc.*, 1963, 3850 (*synth*, *uv*, *ir*)Chatterjee, A. *et al*, *Tetrahedron Lett.*, 1965, 3633 (*uv*, *pmr*, *ms*)Rakhimov, D.A. *et al*, *Khim. Prir. Soedin.*, 1967, **3**, 354; 1969, **5**, 521; *Chem. Nat. Compd. (Engl. Transl.)*, 300, 440 (*Ervincine, Vincaridine*)Banerji, A. *et al*, *Phytochemistry*, 1972, **11**, 2605 (*isol*, *uv*, *ir*, *ms, Picralstonine*)Grossmann, E. *et al*, *Phytochemistry*, 1973, **12**, 2058 (*uv*, *ms*, *pmr*)Aynilian, G.H. *et al*, *J. Nat. Prod. (Lloydia)*, 1974, **37**, 299 (*isol*, *uv*, *ir*, *ms*)Mamatas-Kalamaras, S. *et al*, *Phytochemistry*, 1975, **14**, 1849 (*isol*, *uv*, *ir*, *ms*, *pmr*, *struct*, *Quaternidine, Quaternine*)Akinloye, B.A. *et al*, *Phytochemistry*, 1980, **19**, 307 (*uv*, *ir*, *ms, pmr, struct, Volkensine, Quaternine*)Lewin, G. *et al*, *Ann. Pharm. Fr.*, 1981, **39**, 273 (*Volkensine*)Cherif, A. *et al*, *Heterocycles*, 1987, **26**, 3055 (*cmr*, *deriv*)Ghosh, R. *et al*, *Acta Crystallogr., Sect. C*, 1988, **44**, 2151 (*cryst struct*)Atta-ur-Rahman, *et al*, *Heterocycles*, 1988, **27**, 961*(Alstopicralamine)***P-10116****8(14),15-Pimaradiene-3,11-diol****P-10117**C₂₀H₃₂O₂ M 304.472*(ent-3 β ,11 α)-form* [150036-41-2]Constit. of *Erythroxyylon cuneatum*. Cryst. (hexane). Mp 125-130°. [α]_D²⁵ -163° (CH₂Cl₂).Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 453 (*isol*, *pmr*, *cmr*)**7,15-Pimaradien-18-ol****P-10118**C₂₀H₃₂O M 288.472*(ent-9 β)-form*Constit. of *Calceolaria petioalaris*. Cryst. Mp 106-107°. [α]_D²⁵ -126° (c, 1.1 in CHCl₃).*Ac*:C₂₂H₃₄O₂ M 330.509Constit. of *C. petioalaris*. Oil. [α]_D²⁵ -108° (c, 2 in CHCl₃).*Malonoyl*:C₂₃H₃₄O₄ M 388.546Constit. of *C. petioalaris*. Oil. [α]_D²² -116° (c, 3.8 in CHCl₃).Silva, P. *et al*, *Phytochemistry*, 1993, **34**, 449 (*isol*, *pmr*, *cmr*)**4-Piperidinone, 9CI****P-10119** *γ -Piperidone. 4-Oxopiperidine*

[41661-47-6]

C₅H₉NO M 99.132

Alkaloid from leaves and twigs of *Dichilus strictus*, *D. reflexus*, *D. lebeckioides*, *D. pilosus* and *D. gracilis* (Leguminosae). Yellow oil which cannot be distilled.

B,HCl: [41979-39-9].

Cryst. + $1\frac{1}{2}$ EtOH (EtOH/Et₂O) or cryst. + 1H₂O. Mp 139-141° (EtOH solvate), Mp 94-96° (hydrate), Mp 147-149° (anhyd.).

N-Me: [1445-73-4].

C₆H₁₁NO M 113.159

Oil with strong odour. Bp₁₁ 56-58°.

N-Me; *B,HCl*: Cryst. (EtOH). Mp 94.7-95.2°.

N-Me; *B,MeI*: Cryst. + 1MeOH (MeOH). Mp 189-190° (anhyd. 202-204° dec.).

Oxime:

C₅H₁₀N₂O M 114.147

Hygroscopic needles (dry C₆H₆). Mp 117-118°.

N-Benzyl:

C₁₂H₁₅NO M 189.257

Bp_{0.3} 114-116°.

N-Benzyl; *B,HCl*: Cryst. (EtOH/Et₂O). Mp 159-161°.

N-Ac: [32161-06-1].

C₇H₁₁NO₂ M 141.169

Bp_{0.2} 124-128°.

N-Benzoyl:

C₁₂H₁₃NO₂ M 203.240

Cryst. Mp 49-52°. Bp_{0.2} 158-160°.

N-Nitroso:

C₅H₈N₂O₂ M 128.130

Pale-yellow needles (C₆H₆/ligroin). Mp 61-62°.

1-Ph: [19125-34-9].

C₁₁H₁₃NO M 175.230

Solid. Mp 36-37°. Bp_{0.1-0.2} 110-120°.

Bolyard, N.W. *et al*, *J. Am. Chem. Soc.*, 1930, **52**, 1032.

Howton, D.R., *J. Org. Chem.*, 1945, **10**, 277 (*deriv*)

McElvain, S.M. *et al*, *J. Am. Chem. Soc.*, 1949, **71**, 901; 1960, **82**, 3966.

Dickerman, S.C. *et al*, *J. Org. Chem.*, 1949, **14**, 530.

Becker, H.G.O. *et al*, *Z. Chem.*, 1961, **1**, 157.

Yamamoto, H. *et al*, *Bull. Chem. Soc. Jpn.*, 1971, **44**, 153.

Hirsch, J.A. *et al*, *J. Org. Chem.*, 1978, **43**, 4106 (*ir, uv, deriv*)

Van Wyk, B.-E. *et al*, *Biochem. Syst. Ecol.*, 1988, **16**, 471 (*occur*)

Hermant, R.M. *et al*, *J. Am. Chem. Soc.*, 1990, **112**, 1214 (*1-Ph, synth, ir, pmr*)

Isol. from whole plant of *Justicia simplex*. CNS depressant. Mp 205-210°. [α]_D -12.5° (c, 0.34 in MeOH).

Me ether: see *Spinescin*, S-01024

(-)-*form* [54983-96-9]

Obt. from *Xanthoxylum piperitum*. Syrup. [α]_D -66.3° (CHCl₃).

7'-*Epimer*: [28115-67-5]. **Pluviatilol**

C₂₀H₂₀O₆ M 356.374

Isol. from *X. pluviatile*. Cryst. (C₆H₆/pet. ether). Mp 161.5-162.5°. [α]_D -136° (CHCl₃).

7'-*Epimer*, O-(3-methyl-2-butenyl): [85994-79-2]. **O-**

Prenylpluviatilol

Isol. from *X. silanthoides* and *X. podocarpum*. Cryst. Mp 105-107°.

7-*Epimer*: [54983-95-8]. **Xanthoxylol**

C₂₀H₂₀O₆ M 356.374

Isol. from *X. piperitum* and *X. aeanthopodium*. Cryst. Mp 140-142°. [α]_D -117° (CHCl₃).

[92620-81-0]

Corrie, J.E.T. *et al*, *Aust. J. Chem.*, 1970, **23**, 133 (*Pluviatilol*)

Abe, F. *et al*, *Chem. Pharm. Bull.*, 1973, **21**, 1617; 1974, **22**, 2650 (*Piperitol, Xanthoxylol*)

Dominguez, X. *et al*, *Rev. Latinoam. Quim.*, 1973, **4**, 155 (*isol*)

Pelter, A. *et al*, *Tetrahedron*, 1976, **32**, 2783 (*configs*)

Brieskorn, C.H. *et al*, *Tetrahedron Lett.*, 1976, 2221 (*isol*)

Vaquette, J. *et al*, *Planta Med.*, 1979, **35**, 42 (*isol*)

Ghosal, S. *et al*, *Phytochemistry*, 1980, **19**, 332 (*Simplexoside*)

Carvalho, M.G. *et al*, *Phytochemistry*, 1980, **19**, 332; 1987, **26**, 265 (*isol, pmr, pharmacol*)

Ishii, H. *et al*, *Yakugaku Zasshi*, 1983, **106**, 279 (*O-Prenylpluviatilol*)

Pelter, A. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1985, 587 (*synth, nmr*)

Stevens, D.R. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1992, 185 (*synth*)

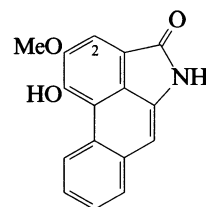
Piperolactam A

P-10121

Updated Entry replacing P-01379

1-Hydroxy-2-methoxydibenz[cd,f]indol-4(5H)one, 9CI. 10-Amino-4-hydroxy-3-methoxyphenanthrene-1-carboxylic acid lactam. *Aristolactam F1*

[112501-42-5]



C₁₆H₁₁NO₃ M 265.268

Alkaloid from the roots of *Piper longum*. Also isol. from the whole plants of *P. attenuatum*, *P. boehmerifolium*, *P. hamiltonii* (Piperaceae) and *Pararistolochia flos-avis* (Aristolochiaceae). Cryst. (C₆H₆/MeOH). Mp 303-306° dec., Mp 271-273° (EtOAc).

N-Me: **N-Methylpiperolactam A**

C₁₇H₁₃NO₃ M 279.295

Alkaloid from stems of *Piper ribesoides* (Piperaceae). Amorph. solid. Mp 205-207°. The first natural *N*-methylated aristolactam.

2-Methoxy: [116084-93-6]. 1-Hydroxy-2,3-dimethoxydibenz[cd,f]indol-4(5H)one, 9CI. 10-Amino-2,3-dimethoxy-4-hydroxyphenanthrene-1-carboxylic acid lactam. **Piperolactam D**

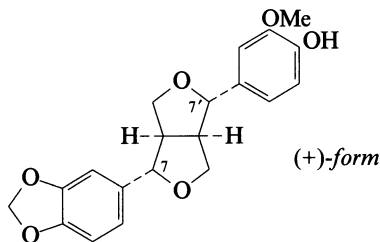
C₁₇H₁₃NO₄ M 295.294

Piperitol†

P-10120

Updated Entry replacing P-01374

4-[4-(1,3-Benzodioxol-5-yl)tetrahydro-1H,3H-furo[3,4-c]furan-1-yl]-2-methoxyphenol, 9CI. 2-(4-Hydroxy-3-methoxyphenyl)-6-(3,4-methylenedioxyphenyl)-3,7-dioxabicyclo[3.3.0]octane. 4'-Hydroxy-3'-methoxy-3,4-methylenedioxy-7,9':7',9'-diepoxy lignan. *Regiomontanin*



C₂₀H₂₀O₆ M 356.374

(+)-*form* [52151-92-5]

Isol. from *Aptosimum spinescens* and trunk wood of *Nectandra turbacensis*. Mp 79°. [α]_D²⁰ +76.2° (c, 2 in CHCl₃).

O-β-D-Glucopyranoside: [74061-78-2]. **Simplexoside**

C₂₆H₃₀O₁₁ M 518.516

Alkaloid from the roots of *P. longum*, stems of *P. acutisleginum* and whole plants of *P. boehmerifolium* (Piperaceae). Greenish-yellow cryst. (MeOH). Mp 222-224°. This struct. was originally assigned to Piperolactam B by Desai *et al* (1988).

2-Methoxy, N,O-di-Ac: Cryst. (C₆H₆). Mp 260-262° (194-195°).

2-Methoxy, Me ether: [116064-76-7]. 1,2,3-Trimethoxydibenz[cd,f]indol-4(5H)-one, 9Cl. **Piperolactam C**

C₁₈H₁₅NO₄ M 309.321

Alkaloid from whole plants of *P. longum* and *P. boehmerifolium* (Piperaceae). Cryst. (C₆H₆/MeOH). Mp 187-188°.

Sun, N.-J. *et al*, *J. Nat. Prod. (Lloydia)*, 1987, **50**, 843 (*isol, uv, ir, pmr, ms, struct*)

Desai, S.J. *et al*, *Phytochemistry*, 1988, **27**, 1511 (*isol, uv, ir, pmr, ms, struct*)

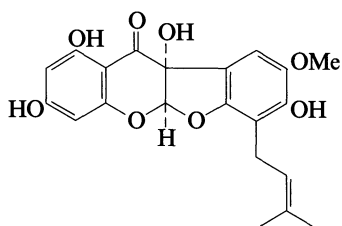
Desai, S.J. *et al*, *Indian J. Chem., Sect. B*, 1989, **28**, 775 (*Piperolactam C*)

Ruangrunsi, N. *et al*, *Phytochemistry*, 1992, **31**, 2397 (*N-Methylpiperolactam A*)

Olsen, C.E. *et al*, *Phytochemistry*, 1993, **33**, 518 (*Piperolactam D*)

Piscerythrol

[135905-48-5]



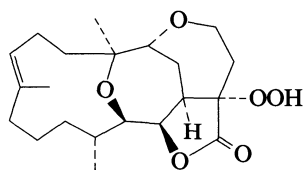
C₂₁H₂₀O₈ M 400.384

Constit. of *Piscidia erythrina*. Pale yellow powder. Mp 85-92°.

Tahara, S. *et al*, *Z. Naturforsch., C*, 1991, **46**, 331 (*isol, pmr, cmr*)

Planaxool

[149204-43-3]



C₂₁H₃₂O₆ M 380.480

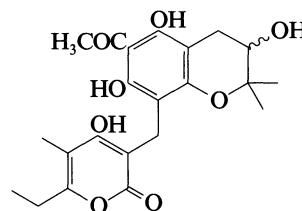
Constit. of *Planaxis sulcatus*. Solid. Mp 58°. [α]_D +219° (c, 0.621 in CHCl₃). Related to 4,13-Epoxy-3-hydroxy-7,15(17)-cembradien-16,14-olide, E-00769.

Alam, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 774 (*isol, pmr, cmr*)

Plicatipyron

[75680-20-5]

P-10124



C₂₂H₂₆O₈ M 418.443

Isol. from *Helichrysum plicatum* and *H. stoechas*. Cryst. (CHCl₃/pet. ether). Mp 180-182°.

Haensel, R. *et al*, *Phytochemistry*, 1980, **19**, 639 (*isol, pmr, ir*)

Rios, J.L. *et al*, *J. Ethnopharmacol.*, 1991, **33**, 51 (*isol, props*)

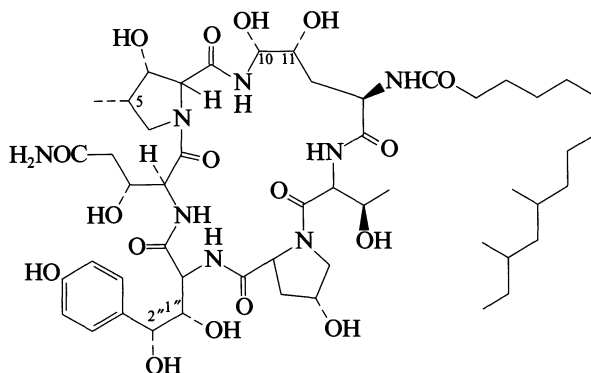
Pneumocandin A₀

P-10125

Updated Entry replacing A-02162

L 671329. Antibiotic L 671329

[120692-19-5]



C₅₁H₈₂N₈O₁₇ M 1079.252

Lipopeptide antibiotic. Isol. from *Zalerion arboricola*, *Cryptosporiopsis* sp. and *Pezizula* sp. Antifungal agent. Powder. Dec. between 206-214°. Related to Antibiotic A 30912, A-01919.

1''-Deoxy: **Pneumocandin A₁**

C₅₁H₈₂N₈O₁₆ M 1063.253

Prod. by *Z. arboricola*. Antifungal agent.

10,11-Dideoxy: [135867-75-3]. **Pneumocandin A₂**

C₅₁H₈₂N₈O₁₅ M 1047.253

Prod. by *Z. arboricola*. Antifungal agent.

1'',2'',11-Trideoxy: **Pneumocandin A₃**

C₅₁H₈₂N₈O₁₄ M 1031.254

Prod. by *Z. arboricola*. Antifungal agent.

1'',2'',10,11-Tetradecoxy: **Pneumocandin A₄**

C₅₁H₈₂N₈O₁₃ M 1015.255

Prod. by *Z. arboricola*. Antifungal agent.

5-Demethyl: **Pneumocandin B₀**

C₅₀H₈₀N₈O₁₇ M 1065.225

Prod. by *Z. arboricola*.

5-Demethyl, 10,11-dideoxy: **Pneumocandin B₂**

C₅₀H₈₀N₈O₁₅ M 1033.227

Prod. by *Z. arboricola*. Antifungal agent.

5-Demethyl, 5-hydroxy, 6-deoxy: **Pneumocandin C₀**

C₅₀H₈₀N₈O₁₇ M 1065.225

Prod. by *Z. arboricola*. Antifungal agent.

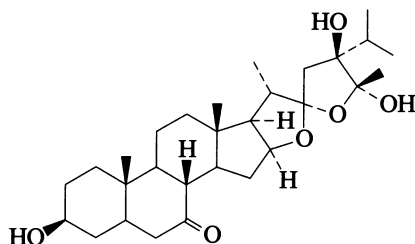
Schwartz, R.E. *et al*, *J. Antibiot.*, 1989, **42**, 163, 168, 174; 1992, **45**, 1853, 1867, 1875, 1886, 1953 (*isol, pmr, cmr, struct, props*)

Adefarati, A.A. *et al*, *J. Am. Chem. Soc.*, 1991, **113**, 3542
(*biosynth*)
Noble, H.M. *et al*, *Mycol. Res.*, 1991, **95**, 1439 (*isol*)
U.S. Pat., 5 021 403, (1991); *CA*, **115**, 112824 (*deriv*)

Pogosterol

[149155-26-0]

P-10126

C₂₉H₄₆O₆ M 490.679Constit. of *Vernonia pogosperma*. Cryst. (MeOH). Mp 154-157°. [α]_D²³ -91.6° (c, 0.43 in CHCl₃).Mungarulire, J. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 411 (*isol*, *pmr*, *cmr*)**Polyphemusin I**

[125139-67-5]

P-10127

H-Arg-Arg-Trp-Cys-Phe-Arg-Val-Cys-Tyr-X-Gly-Phe-Cys-
Tyr-Arg-Lys-Cys-Arg-NH₂, X = ArgIsol. from the hemocytes of the horseshoe crab *Limulus polyphemus*. Antimicrobial agent.Akaji, K. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2661 (*synth*)
Miyata, T. *et al*, *J. Biochem. (Tokyo)*, 1989, **106**, 663 (*isol*, *props*)
Ohta, M. *et al*, *Antimicrob. Agents Chemother.*, 1992, **36**, 1460 (*props*)**Polyphemusin II**

[125139-68-6]

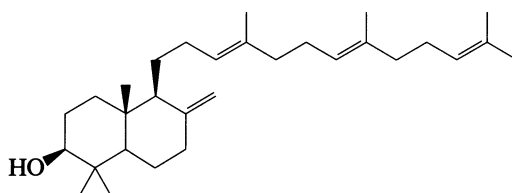
P-10128

As Polyphemusin I, P-10127 with

X = Lys

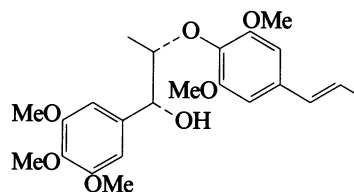
Isol. from the hemocytes of the horseshoe crab *Limulus polyphemus*. Antimicrobial agent.Miyata, T. *et al*, *J. Biochem. (Tokyo)*, 1989, **106**, 663 (*isol*, *props*)
Ohta, M. *et al*, *Antimicrob. Agents Chemother.*, 1992, **36**, 1460 (*props*)**8(26),13,17,21-Polypodatetraen-3-ol**

P-10129

C₃₀H₅₀O M 426.724**3 β -form** [147852-61-7]Constit. of *Cratoxylum cochinchinense*. Oil. [α]_D +18.3°
(c, 1.2 in CHCl₃).Bennett, G.J. *et al*, *Phytochemistry*, 1993, **32**, 1245 (*isol*, *pmr*, *cmr*)**Polysyphorin**

[137196-25-9]

P-10130

C₂₃H₃₀O₇ M 418.486Neolignan. Isol. from *Piper polysyphorum*. Racemic.

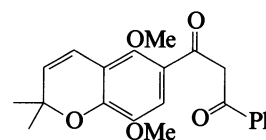
[137196-27-1]

Ma, Y. *et al*, *Yaoxue Xuebao*, 1991, **26**, 345; *CA*, **115**, 247446v (*isol*, *struct*)**Ponganone I**

P-10131

1-(5,8-Dimethoxy-2,2-dimethyl-2H-1-benzopyran-6-yl)-3-hydroxy-3-phenyl-propen-1-one, 9CI

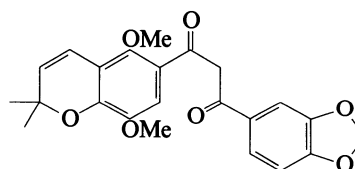
[137031-54-0]

C₂₂H₂₂O₅ M 366.413Enolised β -diketone (CAS name refers to enol tautomer).Constit. of the root bark of *Pongamia pinnata*. Yellow plates (MeOH). Mp 127-128°.Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1473 (*isol*, *pmr*, *cmr*)**Ponganone II**

P-10132

3-(1,3-Benzodioxol-5-yl)-1-(5,8-dimethoxy-2,2-dimethyl-2H-1-benzopyran-6-yl)-3-hydroxy-2-propen-1-one, 9CI

[137031-55-1]

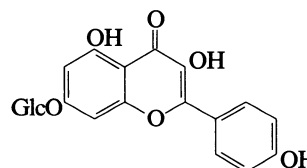
C₂₃H₂₂O₇ M 410.423Enolised β -diketone (CAS name refers to enol tautomer).Constit. of the root bark of *Pongamia pinnata*. Yellow needles (MeOH). Mp 138-139°.Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1473 (*isol*, *pmr*, *cmr*)**Populnin**

P-10133

Updated Entry replacing P-01652

7-O- β -D-Glucopyranosyloxy-3,4',5-trihydroxyflavone.Kaempferol 7- β -D-glucoside

[16290-07-6]

C₂₁H₂₀O₁₁ M 448.382

- Isol. from *Thespesia populnea* and many other plant spp.
Cryst. (H₂O). Mp 250°.
- 3-O-β-D-Glucopyranoside: see 3-O-β-D-Glucopyranosyloxy-4',5,7-trihydroxyflavone, G-00470
- 3-O-β-D-Glucuronoside: [96400-38-3].
C₂₇H₂₈O₁₇ M 624.508
Isol. from *Euphorbia sanctae-catherinae*.
- 3-O-α-L-Rhamnopyranoside: [64323-49-5].
C₂₇H₃₀O₁₅ M 594.525
Isol. from *Betula* spp. and other plant spp.
- 3-O-D-Xyloside: [96751-10-9].
C₂₆H₂₈O₁₅ M 580.498
Isol. from *Zinnia elegans*.
- 3-O-(Rhamnopyranosylxyloside): [64078-90-6].
C₃₂H₃₈O₁₉ M 726.641
Isol. from *Euonymus ciliatus*.
- 3-O-Robinoside: [114924-89-9].
C₃₃H₄₀O₂₀ M 756.667
Isol. from *Atropa belladonna*.
- 3-O-Rutinoside: [34336-18-0].
C₃₃H₄₀O₂₀ M 756.667
Isol. from *Equisetum palustre* and other plant spp.
Yellow needles (MeOH aq.). Mp 193-196°.
- 3-O-Neohesperidoside:
C₃₃H₄₀O₂₀ M 756.667
Isol. from *Paris verticillata*. Pale yellow needles. Mp 202-207°. [α]_D²⁵ – 103.6° (c, 1.1 in MeOH).
- 3-O-Sophoroside: [55136-76-0].
C₃₃H₄₀O₂₁ M 772.666
Isol. from *Equisetum* spp., *Petunia hybrida* and other plant spp.
- 3-O-Gentiobioside: [84543-10-2].
C₃₃H₄₀O₂₁ M 772.666
Isol. from *Tribulus pentandrus*. Mp 220°.
- 3-O-Sambubioside: [58699-70-0]. **Leucovernide**
C₃₂H₃₈O₂₀ M 742.640
Isol. from *Helleborus niger* and *Leucojum vernum*. Mp 206-207°.
- 3-O-Sophorotrioside:
C₃₉H₅₀O₂₆ M 934.808
Isol. from *Asplenium septentrionale*.
- 6"-O-(3,4,5-Trihydroxybenzoyl): [85933-23-9].
C₂₈H₂₄O₁₅ M 600.489
Isol. from *Acacia farnesiana*.
- 6"-O-Succinoyl: [72947-91-2]. **Pteroflavonolioside**
C₂₅H₂₄O₁₄ M 548.456
Isol. from *Cyathea contaminans*. Yellow needles (EtOH aq.). Mp 239-242°.
- 3-(O-Caffeoyl-β-D-glucopyranoside): [80699-43-0].
C₃₆H₃₆O₁₉ M 772.669
Isol. from *Aconitum noveboracense*.
- 3-(O-Feruloyl-β-D-glucopyranoside): [83299-91-6].
C₃₇H₃₈O₁₉ M 786.696
Isol. from *Crambe fruticosa*.
- 3-(O-Benzoyl-β-D-glucopyranoside): [27436-81-3].
C₃₄H₃₄O₁₇ M 714.632
Isol. from *Narcissus poeticus*.
- 3-O-(4-Hydroxybenzoyl-β-D-glucopyranoside): [27321-63-7].
C₃₄H₃₄O₁₈ M 730.632
Isol. from *N. poeticus*.
- 3-O-(6-O-Acetyl-β-D-glucopyranoside): [66465-23-4].
C₂₉H₃₂O₁₇ M 652.562
Isol. from *Equisetum telmateja*. Yellow needles. Mp 243-244°.
- 3-O-(p-Coumaroylrutinoside): [80736-02-3].
C₄₂H₄₆O₂₂ M 902.812
Isol. from *Aconitum columbianum*.
- 3-O-(2"-O-Sinapoylsophoroside): [61042-11-3].
C₄₄H₅₀O₂₅ M 978.864

Isol. from *Brassica napus*. Yellow cryst. (MeOH aq.).
Mp 220-225°.

- 3-O-(p-Coumaroyl-β-D-glucopyranoside), 4'-O-β-D-glucopyranoside:
C₄₂H₄₆O₂₃ M 918.812
Isol. from *Crambe cordifolia*.
- 3-O-[α-L-Rhamnopyranosyl-(1→2)-β-D-galactopyranoside]: [128988-58-9].
C₃₃H₄₀O₂₀ M 756.667
Constit. of *Blackstonia perfoliata*. Yellow powder.
- 3-O-(4-O-p-E-Coumaroylrobinobioside): [113270-94-3].
Variabiloside C
C₄₂H₄₆O₂₂ M 902.812
Constit. of the leaves of *Strychnos variabilis*.
- 3-O-(4-O-p-Z-Coumaroylrobinobioside): [113349-37-4].
Variabiloside D
C₄₂H₄₆O₂₂ M 902.812
Constit. of the leaves of *S. variabilis*.

[27661-49-0]

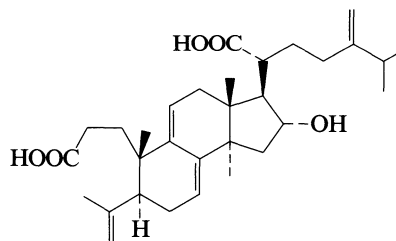
- Birkofer, L. et al, *Z. Naturforsch., B*, 1962, **17**, 359 (3-sophoroside)
Steinegger, E. et al, *Pharm. Acta Helv.*, 1963, **38**, 119 (3-robinobioside)
Schoensiegel, I. et al, *Z. Naturforsch., B*, 1969, **24**, 1213 (3-benzoylglucoside)
Chari, V.M. et al, *Chem. Ber.*, 1976, **109**, 426 (*Leucovernide*)
Stengel, B. et al, *Z. Naturforsch., C*, 1976, **31**, 622 (3-sinapoylsophoroside)
Geiger, H. et al, *Phytochemistry*, 1978, **17**, 336 (3-acetylglucoside)
Hiraoka, A. et al, *Chem. Pharm. Bull.*, 1979, **27**, 3130 (6"-succinate)
Nakano, K. et al, *Chem. Pharm. Bull.*, 1981, **29**, 1445 (3-neohesperidoside)
El-Negoumy, S.L. et al, *Egypt. J. Chem.*, 1981, **24**, 471 (6"-gallate)
Young, D.A. et al, *Phytochemistry*, 1981, **20**, 2055 (3-caffeoylglucoside)
Saleh, N.A.M. et al, *Phytochemistry*, 1982, **21**, 1995; 1985, **24**, 371 (3-gentiobioside, 3-glucuronoside)
Aguinagalde, I. et al, *Phytochemistry*, 1982, **21**, 2875 (3-feruloylglucoside)
Brasseur, T. et al, *Phytochemistry*, 1988, **27**, 1487 (*Variabilosides*)
Kaouadji, M. et al, *Phytochemistry*, 1990, **29**, 1283 (3-rhamnosylgalactoside)

Poricoic acid A

P-10134

Updated Entry replacing P-01665

16-Hydroxy-24-methylene-3,4-secolanosta-4(28),7,9(11)-triene-3,21-dioic acid
[137551-38-3]



C₃₁H₄₆O₅ M 498.701
Constit. of *Poria cocos*. Cryst. (MeCN aq.). Mp 248-249°.
[α]_D²⁶ + 22° (c, 1 in MeOH).

3-Me ester: **Poricoic acid AM**

C₃₂H₄₈O₅ M 512.728
Constit. of *P. cocos*. Cryst. (MeOH/CHCl₃). Mp 220-222°. [α]_D²⁶ + 21° (c, 0.1 in MeOH).

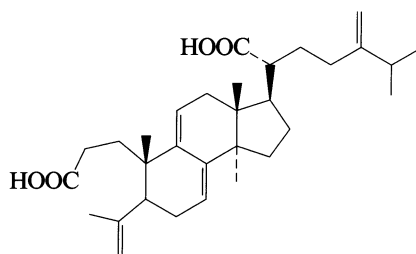
Tai, T. et al, *Phytochemistry*, 1991, **30**, 2796; 1993, **32**, 1239 (*isol*, *pmr*, *cmr*)

Poricoic acid C

P-10135

24-Methylene-3,4-secolanosta-4(28),7,9(11)-triene-3,21-dioic acid

[151200-89-4]



$C_{31}H_{46}O_4$ M 482.702

Constit. of *Poria cocos*. Amorph. powder. $[\alpha]_D^{26} + 40^\circ$ (c, 0.5 in MeOH).

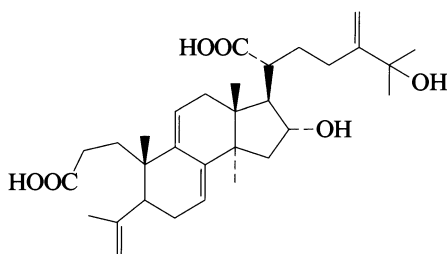
Tai, T. et al, *Phytochemistry*, 1993, **32**, 1239 (isol, pmr, cmr)

Poricoic acid D

P-10136

16,25-Dihydroxy-24-methylene-3,4-secolanosta-4(28),7,9(11)-triene-3,21-dioic acid

[151200-90-7]



$C_{31}H_{46}O_6$ M 514.701

Constit. of *Poria cocos*. Amorph. powder. $[\alpha]_D^{26} + 11^\circ$ (c, 1 in MeOH).

3-Me ester: [151200-91-8]. **Poricoic acid DM**

$C_{32}H_{48}O_6$ M 528.728

Constit. of *P. cocos*. Amorph. powder. $[\alpha]_D^{26} + 25^\circ$ (c, 0.5 in MeOH).

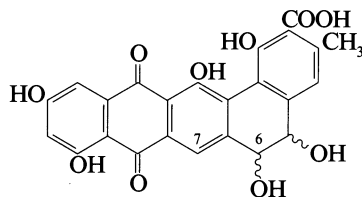
Tai, T. et al, *Phytochemistry*, 1993, **32**, 1239 (isol, pmr, cmr)

Pradimicin M

P-10137

Updated Entry replacing P-01702

[132971-63-2]



$C_{24}H_{16}O_{10}$ M 464.384

Anthraquinone antibiotic. Isol. from *Actinomadura hibisca*.

6-Deoxy, 7-hydroxy: [141869-53-6]. **Pradimicin Q**

$C_{24}H_{16}O_{10}$ M 464.384

Isol. from *A. verrucospora neohibisca*. α -Glucosidase inhibitor. Mp $> 200^\circ$ (dec.).

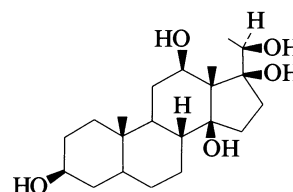
Sawada, Y. et al, *J. Antibiot.*, 1990, **43**, 1367 (isol)

U.S. Pat., 5 091 418, (1992); *CA*, **117**, 46702 (*Pradimicin Q*)

Pregnane-3,12,14,17,20-pentol

P-10138

Updated Entry replacing P-01756



$C_{21}H_{36}O_5$ M 368.512

(3 β ,5 α ,12 β ,14 β ,17 β OH,20S)-form [3513-00-6] **Toomentogenin**

Constit. of *Marsdenia tomentosa*. Cryst. (Me₂CO). Mp 264-267°. $[\alpha]_D^{16} + 36^\circ$ (c, 0.95 in MeOH).

12-Ac: [63320-63-8].

$C_{23}H_{38}O_6$ M 410.550

Constit. of *M. tomentosa*. Needles (Me₂CO/hexane). Mp 165-168°. $[\alpha]_D^{19} + 25^\circ$ (c, 0.4 in CHCl₃).

20-Ac, 12-(2-methylbutanoyl): [59613-30-8]. **Toomentonin**

$C_{28}H_{46}O_7$ M 494.667

Constit. of *M. tomentosa*. Plates (Me₂CO/hexane). Mp 158-161°. $[\alpha]_D^{18} + 38^\circ$ (c, 0.3 in CHCl₃).

20-Ac, 12-Tigloyl: [56691-94-2]. **Tomentosin**

$C_{28}H_{44}O_7$ M 492.651

Constit. of *M. tomentosa*. Cryst. (Me₂CO/hexane). Mp 148-150°. $[\alpha]_D^{19} + 43.5^\circ$ (c, 0.23 in CHCl₃).

20-Ac, 12-Cinnamoyl: [59613-31-9]. **Tomentodin**

$C_{32}H_{46}O_7$ M 540.695

Constit. of *M. tomentosa*. Needles (Me₂CO/hexane). Mp 140-144°. $[\alpha]_D^{20} + 45^\circ$ (c, 0.3 in CHCl₃).

12,20-Di-Ac: [57943-41-6]. **Tomentin†**

$C_{25}H_{40}O_7$ M 452.587

Constit. of *M. tomentosa*. Cryst. (Me₂CO/hexane). Mp 137-141°. $[\alpha]_D^{11} + 30^\circ$ (c, 0.6 in CHCl₃).

12-Tigloyl: [56691-96-4]. **Deacetyltomentosin**

$C_{26}H_{42}O_6$ M 450.614

Constit. of *M. tomentosa*. Prisms (Me₂CO/hexane). Mp 218-222°. $[\alpha]_D^{20} + 41^\circ$ (c, 0.5 in CHCl₃).

12-Ac, 20-Cinnamoyl: [61618-93-7]. **Tomentidin**

$C_{32}H_{44}O_7$ M 540.695

Constit. of *M. tomentosa*. Needles (Me₂CO/hexane). Mp 148-150°. $[\alpha]_D^{20} + 49^\circ$ (c, 0.2 in CHCl₃).

20-Benzoyl, 12-Ac: [125472-06-2]. **Drevogenin II**

$C_{30}H_{42}O_7$ M 514.658

Isol. from *Dregea sinensis corrugata*. Mp 235-238°. $[\alpha]_D + 36.5^\circ$ (c, 0.52 in MeOH).

12-Ac, 20-benzoyl, 3-O-[β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl]: [126005-92-3]. **Dregeoside C**

$C_{51}H_{78}O_{16}$ M 947.168

Isol. from *D. sinensis corrugata*. Amorph. Mp 143-146°. $[\alpha]_D^{20} + 37.5^\circ$ (c, 0.92 in MeOH).

12-Cinnamoyl, 20-(3-pyridinecarbonyl): [63524-08-3].

Toomentomin

$C_{36}H_{45}NO_7$ M 603.754

Alkaloid from *M. tomentosa* (Asclepiadaceae). Plates (EtOAc/hexane). Mp 155-157°. $[\alpha]_D^{20} + 137^\circ$ (c, 0.4 in CHCl₃).

Mitsuhashi, H. et al, *Chem. Pharm. Bull.*, 1965, **13**, 267 (isol)

Fukuoka, M. et al, *Chem. Pharm. Bull.*, 1968, **16**, 1634 (struct)

Seto, H. et al, *Chem. Pharm. Bull.*, 1975, **23**, 1552, 2397; 1976, **24**, 443, 1552, 2457; 1977, **25**, 611, 876 (isol, Toomentomin)

Japan. Pat., 74 46 956, (1978); *CA*, **89**, 104093 (isol, Toomentonin)

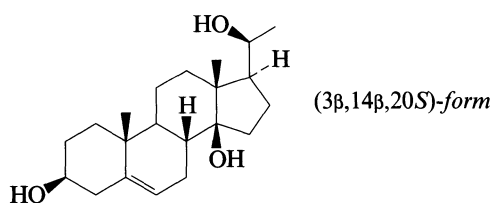
Jin, Q.D. et al, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 1214 (*Dregeoside C*, *Drevogenin II*)

Jin, Q.D. et al, *Yaoxue Xuebao*, 1989, **24**, 587 (*Drevogenin II*)

Pregn-5-ene-3,14,20-triol

P-10139

Updated Entry replacing P-01774

C₂₁H₃₄O₃ M 334.498(3 β ,14 β ,20S)-form3-O- β -D-Oleandropyranosyl-(1 \rightarrow 4)- β -D-thevetopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside]: [122537-19-3]. **Oxysin**C₄₈H₈₀O₁₆ M 913.150Isol. from the roots of *Oxystelma esculentum*. Mp 120-122°. [α]_D²⁵ – 17.5° (c, 0.1 in MeOH).(3 β ,14 β ,20 ξ)-form [83108-12-7]**Calogenin**Cryst. Mp 202-204°. [α]_D – 50° (c, 0.12 in MeOH).20-O- β -D-Arabinopyranoside: [83108-09-2]. **Calocin**C₂₆H₄₂O₇ M 466.614Isol. from *Periploca calophylla*. Needles (Me₂CO/pet. ether). Mp 243-247°. [α]_D – 60.7° (c, 0.3 in MeOH).3-O- β -L-2,6-Dideoxyfucoopyranoside: [116965-72-1].**Calocinin**C₂₇H₄₄O₆ M 464.641From *P. calophylla*. Cryst. (MeOH/Et₂O). Mp 250-255°. [α]_D²⁵ + 16° (c, 0.13 in MeOH).3-O- β -D-Digitoxopyranoside: [122566-58-9]. **Indicine**[†]C₂₇H₄₄O₆ M 464.641Constit. of *Hemidesmus indicus*. Cryst. (MeOH/Et₂O). Mp 230-233°. [α]_D²⁵ – 39° (c, 0.3 in MeOH).3-O- β -D-Boivinopyranoside: [132831-02-8]. **Hemidine**C₂₇H₄₄O₆ M 464.641Constit. of *H. indicus*. Cryst. (MeOH/Et₂O). Mp 133-140°. [α]_D²⁵ – 24° (c, 0.17 in MeOH).Srivastava, O.P. *et al*, *J. Nat. Prod. (Lloydia)*, 1982, **45**, 211 (*Calocin*)Sethi, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1988, **51**, 787 (*Calocinin*)Trivedi, R. *et al*, *Phytochemistry*, 1989, **28**, 1211 (*Oxysin*)Prakash, K. *et al*, *Phytochemistry*, 1991, **30**, 297 (*Indicine*, *Hemidine*)**Pregn-5-ene-3,17,20-triol**

P-10140

Updated Entry replacing P-01775

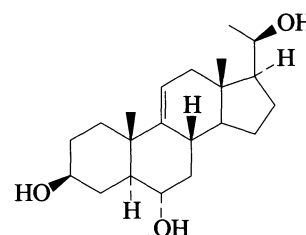
C₂₁H₃₄O₃ M 334.498(3 β ,17 α OH,20S)-form3-Sulfate: Mp 179-181° (as NH₄ salt).

20-O-(2,6-Dideoxy-arabino-hexopyranoside): [39946-41-3].

Periplocoside NC₂₇H₄₄O₆ M 464.641Constit. of Bei-wujiapi (the cortex of *Periploca sepium*). Needles (EtOH). Mp 239-240°. [α]_D²² – 69.9° (c, 0.92 in EtOH).3-O- β -D-Digitalopyranoside: [116709-66-1]. **Periplocoside L**C₂₈H₄₆O₇ M 494.667Constit. of *P. sepium*. Needles. Mp 238-240°. [α]_D – 53.3° (c, 0.06 in MeOH).20-O- β -D-Digitalopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-canaropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranosyl-(1 \rightarrow 5)-3,7-dideoxy-4-O-methyl- α -D-glucopyranosyl-(2 \rightarrow 4)-dioxo-(1 \rightarrow 3)- β -D-canaropyranoside]: [119902-15-7]. **Periplocoside J**C₆₁H₁₀₀O₂₃ M 1201.447Constit. of *P. sepium*. Powder. Mp 178-181°. [α]_D²⁰ + 24.13° (c, 0.12 in MeOH).20-O- β -D-Digitalopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 5)-3,7-dideoxy-4-O-methyl- α -D-glucopyranosyl-(2 \rightarrow 4)-dioxo-(1 \rightarrow 3)- β -D-canaropyranoside]: [119902-17-9]. **Periplocoside F**C₆₃H₁₀₄O₂₃ M 1229.501Constit. of *P. sepium*. Powder. Mp 195-198°. [α]_D + 8.1° (c, 0.07 in MeOH).20-O-[2-O-Acetyl- β -D-digitalopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 5)-3,7-dideoxy-4-O-methyl- α -D-glucopyranosyl-(2 \rightarrow 4)-dioxo-(1 \rightarrow 3)- β -D-canaropyranoside]: [116709-65-0]. **Periplocoside E**C₆₅H₁₀₆O₂₄ M 1271.538Constit. of *P. sepium*. Powder. Mp 183-189°. [α]_D – 7.5° (c, 0.08 in CHCl₃).Calvin, H.I. *et al*, *J. Clin. Endocrinol. Metab.*, 1966, **24**, 402 (*sulfate*)Ishijone, H. *et al*, *Chem. Pharm. Bull.*, 1972, **20**, 2402.Itokawa, H. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 2084, 4441 (*Periplocosides*)**Pregn-9(11)-ene-3,6,20-triol**

P-10141

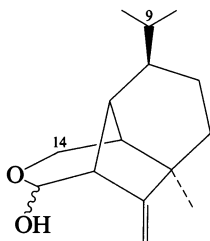
Updated Entry replacing P-01777

C₂₁H₃₄O₃ M 334.498(3 β ,5 α ,6 α ,20R)-form [75921-90-3] **Asterogenol**Constit. of the starfish *Asterias forbesi*. Cryst. (MeOH). Mp 263-266°. [α]_D²⁰ + 8° (c, 0.124 in EtOH).6-O-(6-Deoxy- β -D-glucopyranoside), 3-O-sulfate: [129602-17-1]. **Forbeside E1**C₂₇H₄₄O₁₀S M 560.705Isol. from *A. forbesi*. Powder (as Na salt). Mp 218° (Na salt). [α]_D²⁸ + 4.2° (c, 0.005 in H₂O).6-O-(6-Deoxy- β -D-glucopyranoside), 4'-O-sulfate: [129602-18-2]. **Forbeside E2**C₂₇H₄₄O₁₀S M 560.705Isol. from *A. forbesi*. Powder (as Na salt). Mp 204° (Na salt). [α]_D²⁸ + 8° (c, 0.002 in H₂O).6-O-(6-Deoxy- β -D-glucopyranoside), 3,4'-di-O-sulfate: [125127-57-3]. **Forbeside E**C₂₇H₄₄O₁₃S₂ M 640.769Isol. from *A. forbesi*. Powder (as di-Na salt). Mp 238° dec. (di-Na salt). [α]_D + 9.5° (c, 0.004 in H₂O).ApSimon, J.W. *et al*, *Can. J. Chem.*, 1980, **58**, 2703.Findlay, J.A. *et al*, *Can. J. Chem.*, 1989, **67**, 2078 (*Forbesides*)Findlay, J.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 710 (*Forbesides*)

Prehelminthosporol

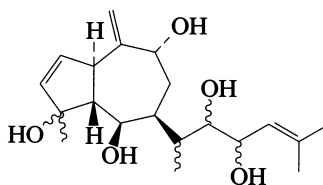
Updated Entry replacing P-01779

[1619-13-2]

 $C_{15}H_{24}O_2$ M 236.353

Metab. of *Cochliobolus sativus* and *C. setariae*. Shows antiviral activity *in vitro*. Phytotoxin and plant growth regulator. Gum. Mixt. of epimers.

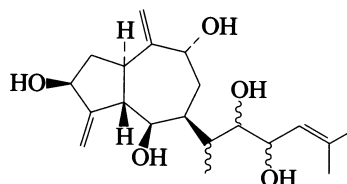
Ac: [81509-30-0].

Mp 65-67°. $[\alpha]_D^{27} - 1.6^\circ$ (c, 0.92 in $CHCl_3$).Ketone (lactone): [118101-72-7]. **Prehelminthosporolactone** $C_{15}H_{22}O_2$ M 234.338From a *Bipolaris* sp. Phytotoxin. Needles (MeOH aq.).Mp 78.5-79°. $[\alpha]_D^{27} - 119.8^\circ$ (c, 0.96 in $CHCl_3$).9-Hydroxy: [26770-82-1]. **9-Hydroxyprehelminthosporol** $C_{15}H_{24}O_3$ M 252.353Metab. of *C. sativus*. Shows antiviral props. *in vitro*. Gum.9-Acetoxy: Cryst. (Et₂O/pet. ether). Mp 135-137°. $[\alpha]_D^{27} + 9.3^\circ$ (c, 1.1 in $CHCl_3$).14-Hydroxy: [61391-22-8]. **Prehelminthosporal** $C_{15}H_{24}O_3$ M 252.353Constit. of *B. sorokiniana* and *Helminthosporium sativum*. In equilibrium with the dialdehyde of which it is the hydrated form.Aldridge, D.C. *et al*, *J. Chem. Soc. C*, 1970, 686.Nukina, M. *et al*, *J. Am. Chem. Soc.*, 1975, **97**, 2542 (*props*)Nukina, M. *et al*, *Agric. Biol. Chem.*, 1976, **40**, 2121 (*props*)Piers, E. *et al*, *Can. J. Chem.*, 1977, **55**, 1039 (*Prehelminthosporal*)Cutler, H.G. *et al*, *J. Agric. Food Chem.*, 1982, **30**, 658 (*props*)Pena-Rodriguez, L.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 899 (*Prehelminthosporolactone*)**2,10(18),14-Prenylguaiaatriene-4,6,9,12,13-pentol** P-10143 $C_{20}H_{32}O_5$ M 352.470**(4ξ,6β,9α,12ξ,13ξ)-form**

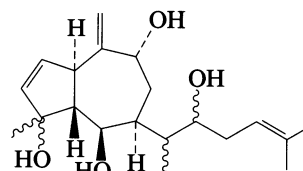
12,13-Di-Ac: [146523-00-4].

 $C_{24}H_{36}O_7$ M 436.544Constit. of *Dictyota volubilis*. Oil. $[\alpha]_D^{25} - 15.3^\circ$ (c, 0.6 in $CHCl_3$).Wright, A.D. *et al*, *Tetrahedron*, 1993, **49**, 571 (*isol*, *pmr*, *cmr*)**P-10142 4(17),10(18),14-Prenylguaiaatriene-3,6,9,12,13-pentol**

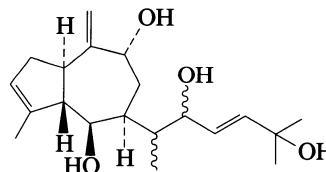
P-10144

 $C_{20}H_{32}O_5$ M 352.470**(3β,6β,9α,12ξ,13ξ)-form**

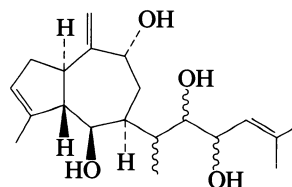
12,13-Di-Ac: [146522-99-8].

 $C_{24}H_{36}O_7$ M 436.544Constit. of *Dictyota volubilis*. Oil. $[\alpha]_D^{25} - 8.5^\circ$ (c, 0.2 in $CHCl_3$).Wright, A.D. *et al*, *Tetrahedron*, 1993, **49**, 571 (*isol*, *pmr*, *cmr*)**2,10(18),14-Prenylguaiaatriene-4,6,9,12-tetrol** P-10145 $C_{20}H_{32}O_4$ M 336.470**(1α,4ξ,5β,6β,9α,12ξ)-form**

12-Ac: [149195-81-3].

 $C_{22}H_{34}O_5$ M 378.508Constit. of *Dictyota volubilis*. Oil. $[\alpha]_D - 16.6^\circ$ (c, 0.74 in $CHCl_3$).König, G.M. *et al*, *Planta Med.*, 1993, **59**, 174 (*isol*, *pmr*, *cmr*)**3,10(18),13-Prenylguaiaatriene-6,9,12,15-tetrol** P-10146 $C_{20}H_{32}O_4$ M 336.470**(1α,5β,6β,9α,12ξ)-form**

12-Ac: [149195-80-2].

 $C_{22}H_{34}O_5$ M 378.508Constit. of *Dictyota volubilis*. Yellow oil. $[\alpha]_D + 2.1^\circ$ (c, 0.51 in $CHCl_3$).König, G.M. *et al*, *Planta Med.*, 1993, **59**, 174 (*isol*, *pmr*, *cmr*)**3,10(18),14-Prenylguaiaatriene-6,9,12,13-tetrol** P-10147 $C_{20}H_{32}O_4$ M 336.470

(1 α ,5 β ,6 β ,9 α ,12 ξ ,13 ξ)-form

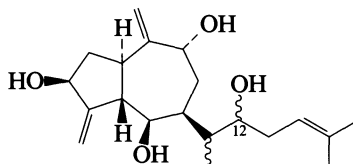
12,13-Di-Ac: [149195-79-9].

C₂₄H₃₆O₆ M 420.545Constit. of *Dictyota volubilis*. Yellow oil. [α]_D + 4.4° (c, 1.2 in CHCl₃).

6,12,13-Tri-Ac: [149195-78-8].

C₂₆H₃₈O₇ M 462.582Constit. of *D. volubilis*. Cryst. Mp 142.4°. [α]_D + 21.3° (c, 0.16 in CHCl₃).König, G.M. *et al*, *Planta Med.*, 1993, **59**, 174 (*isol, pmr, cmr*)**4(17),10(18),14-Prenylguaiaatriene-3,6,9,12-tetrol**

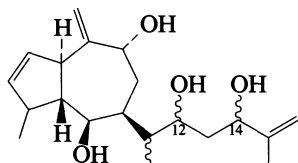
P-10148

C₂₀H₃₂O₄ M 336.470**(3 β ,6 β ,9 α ,12 ξ)-form**

12-Ac: [146506-41-4].

C₂₂H₃₄O₅ M 378.508Constit. of *Dictyota volubilis*. Oil. [α]_D²⁵ – 16.4° (c, 0.25 in CHCl₃).Wright, A.D. *et al*, *Tetrahedron*, 1993, **49**, 571 (*isol, pmr, cmr*)**4(17),10(18),15-Prenylguaiaatriene-6,9,12,14-tetrol**

P-10149

C₂₀H₃₂O₄ M 336.470**(6 β ,9 α ,12 ξ ,14 ξ)-form**

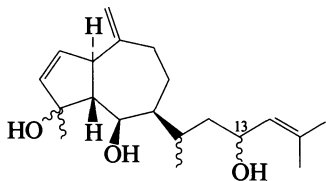
12-Ac: [146506-42-5].

C₂₂H₃₄O₅ M 378.508Constit. of *Dictyota volubilis*. Oil. [α]_D²⁵ + 30.5° (c, 0.2 in CHCl₃).

12-Ac, 14-epimer:

C₂₂H₃₄O₅ M 378.508Constit. of *D. volubilis*. Oil. [α]_D²⁵ – 16.8° (c, 0.22 in CHCl₃).Wright, A.D. *et al*, *Tetrahedron*, 1993, **49**, 571 (*isol, pmr, cmr*)**2,10(18),14-Prenylguaiaatriene-4,6,13-triol**

P-10150

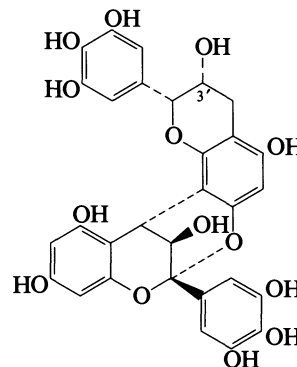
C₂₀H₃₂O₃ M 320.471**(4 ξ ,6 β ,13 ξ)-form**

13-Ac: [146506-43-6].

C₂₂H₃₄O₄ M 362.508Constit. of *Dictyota volubilis*. Oil. [α]_D²⁵ + 13.0° (c, 0.43 in CHCl₃).Wright, A.D. *et al*, *Tetrahedron*, 1993, **49**, 571 (*isol, pmr, cmr*)**Prodelphinidin A₂**

P-10151

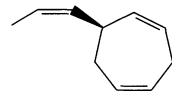
3,3',4',5,5',7-Hexahydroxyflavan-(2→7,4→8)-3,3',4',5,5',7-hexahydroxyflavan

C₃₀H₂₄O₁₄ M 608.511Off-white powder. [α]_D¹⁹ + 54.3° (c, 0.3 in Me₂CO).

3'-O-(3,4,5-Trihydroxybenzoyl): [126715-94-4].

Prodelphinidin A₂ 3'-gallateC₃₇H₂₈O₁₈ M 760.617Constit. of oolong tea (*Camellia sinensis* var. *viridis*).Tan powder. [α]_D²⁰ – 60° (c, 0.5 in Me₂CO).Hashimoto, F. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 3255.**6-(1-Propenyl)-1,4-cycloheptadiene**

P-10152

**(S)-(Z)-form**C₁₀H₁₄ M 134.221**(S)-(Z)-form** [142864-29-7]Constit. of the brown alga *Ectocarpus siliculosus*.**(±)-(E)-form** [50265-65-1]Bp₁₇ 54-55°.

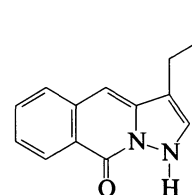
[92340-52-8]

Jaenicke, L. *et al*, *Justus Liebigs Ann. Chem.*, 1973, 1252 (*synth, pmr*)Stratmann, K. *et al*, *Angew. Chem., Int. Ed. Engl.*, 1992, **31**, 1246 (*isol*)**3-Propyl-1*H*-pyrazolo[1,5-*b*]isoquinolin-9-one**

P-10153

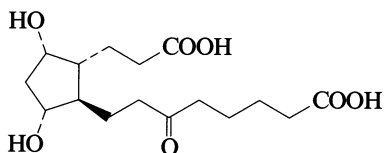
APHE 2

[146426-36-0]

C₁₄H₁₄N₂O M 226.277Prod. by *Streptoverticillium griseocarneum*. Shows antimicrobial and cytotoxic activities. Yellow powder. Mp 130-132°.Fidalgo, M.L. *et al*, *J. Antibiot.*, 1992, **45**, 1759 (*isol, pmr, cmr, struct, props*)

Prostaglandin F-M**P-10154**

2-(2-Carboxyethyl)-3,5-dihydroxy-ε-oxocyclopentaneoctanoic acid. 5,7-Dihydroxy-11-oxotetranorprostane-1,16-dioic acid [69779-96-0]

C₁₆H₂₆O₇ M 330.377

Urinary metab. of PGF_{2α} (see 9,11,15-Trihydroxyprosta-5,13-dienoic acid, T-02631).

5-Ketone: [24769-56-0]. Prostaglandin E-M. 2-(2-Carboxyethyl)-5-hydroxy-ε,3-dioxo-cyclopentaneoctanoic acid

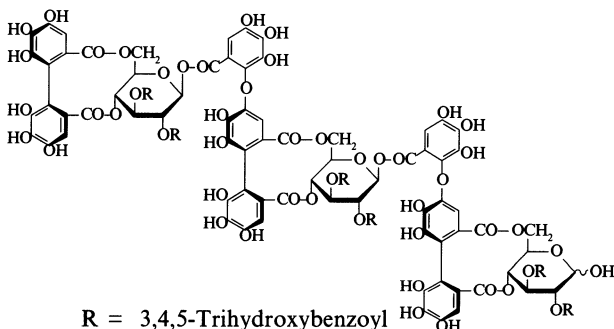
C₁₆H₂₄O₇ M 328.361

PGE₂ (see 11,15-Dihydroxy-9-oxo-5,13-prostadienoic acid, D-10223) human urinary metab.

[23109-94-6, 31935-05-4, 55029-37-3]

Granstroem, E. *et al*, *J. Am. Chem. Soc.*, 1969, **91**, 3398 (*isol*)Boot, J.R. *et al*, *Prostaglandins*, 1974, **8**, 439 (*synth*)Brash, A.R. *et al*, *Biochim. Biophys. Acta*, 1979, **572**, 371 (*biosynth*)Granstroem, E. *et al*, *Biochim. Biophys. Acta*, 1982, **713**, 46 (*biosynth*)Rosenkranz, B. *et al*, *Biochim. Biophys. Acta*, 1983, **750**, 231 (*biosynth*)**Prostratin B****P-10155**

[134176-73-1]

C₁₁₆H₈₂O₇₄ M 2659.879

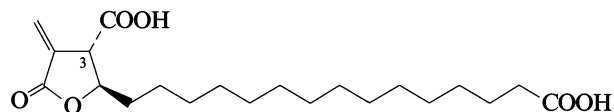
Exists as an equilibrated mixt. of α- and β-anomers.

Ellagitannin const. of *Euphorbia prostrata*. Pale brown amorph. powder + 21H₂O. [α]_D²⁰ +125° (c, 1.0 in MeOH).

Yoshida, T. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 3296 (*struct, uv, pmr, cmr*)

Protopraesorediosic acid**P-10156**

3-Carboxytetrahydro-4-methylene-5-oxo-2-furanpentadecanoic acid, 9CI

C₂₁H₃₄O₆ M 382.496

(2R,3S)-form [130342-69-7]

Isol. from the lichen *Parmotrema praesorediosum*. Cryst. (CHCl₃/pet. ether). Mp 123-124°. [α]_D²⁵ +9.1° (MeOH).

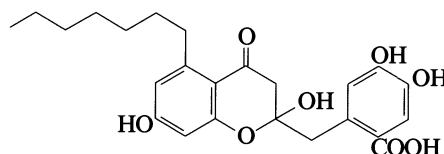
Δ³-Isomer: [130342-70-0]. **Praesorediosic acid**. 3-Carboxy-2,5-dihydro-4-methyl-5-oxo-2-furanpentadecanoic acid, 9CI

Isol. from *P. praesorediosum*. Cryst. (CHCl₃/pet. ether). Mp 139-140.5°. [α]_D²⁵ +22.7° (MeOH).

Feeya, D. *et al*, *Aust. J. Chem.*, 1990, **43**, 1297 (*isol, pmr, cd, struct*)

Protosiphulin**P-10157**

[74474-69-4]

C₂₄H₂₈O₈ M 444.480

Constit. of lichen *Siphula ceratites*. Needles (Me₂CO/hexane). Mp 179-182° dec. Racemic.

Shimada, S. *et al*, *Phytochemistry*, 1980, **19**, 467 (*isol*)

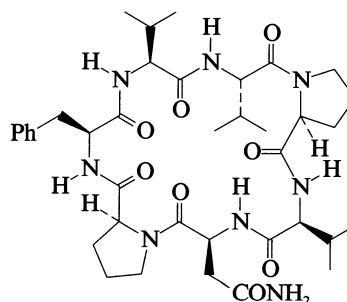
Protosterol B**P-10158**

Struct. unknown. Constit. of the stem bark of *Wistaria sinensis*.

Tiwari, K.P. *et al*, *Proc. Natl. Acad. Sci., India, Sect. A*, 1981, **51**, 263.

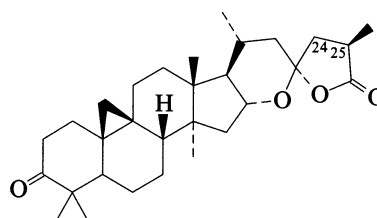
Pseudoaxinellin**P-10159**

[137647-92-8]

C₃₈H₅₆N₈O₈ M 752.909

Cyclic peptide. Constit. of the sponge *Pseudoaxinella massa*. Glass. [α]_D -100.1° (c, 0.34 in CHCl₃).

Kong, F. *et al*, *Tetrahedron Lett.*, 1992, **33**, 3269 (*isol, pmr, cmr, struct*)

Pseudolarolide A**P-10160**C₃₀H₄₄O₄ M 468.675

Constit. of *Pseudolarix kaempferi*. Plates (MeOH). Mp 257-259°.

24,25-Didehydro: **Pseudolarolide B**

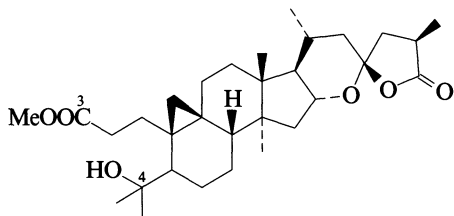
C₃₀H₄₂O₄ M 466.659

Constit. of *P. kaempferi*. Needles (Me₂CO). Mp 229-231°.

Chen, G.-F. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1114 (*isol*, *pmr*, *cmr*)

Pseudolarolide C

P-10161



C₃₁H₄₈O₆ M 516.717

Constit. of *Pseudolarix kaempferi*. Prisms (Me₂CO). Mp 205.5-207.5°.

Parent acid, 3→4 lactone: **Pseudolarolide D**

C₃₀H₄₄O₅ M 484.675

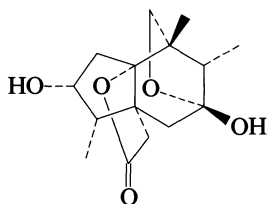
Constit. of *P. kaempferi*. Needles (Me₂CO). Mp 222-223°.

Chen, G.-F. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1114 (*isol*, *pmr*, *cmr*)

Pseudomajucin

P-10162

[125028-61-7]



C₁₅H₂₂O₅ M 282.336

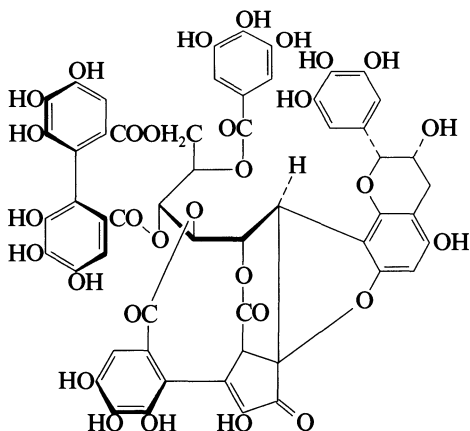
Constit. of *Illicium majus*. Prisms (EtOAc). Mp 199-201°.
[α]_D²⁵ – 89.6° (c, 0.26 in dioxan).

Kouno, I. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2427 (*isol*, *pmr*, *cmr*, *cryst struct*)

Psidinin C

P-10163

[145826-28-4]



C₅₅H₃₈O₃₁ M 1194.887

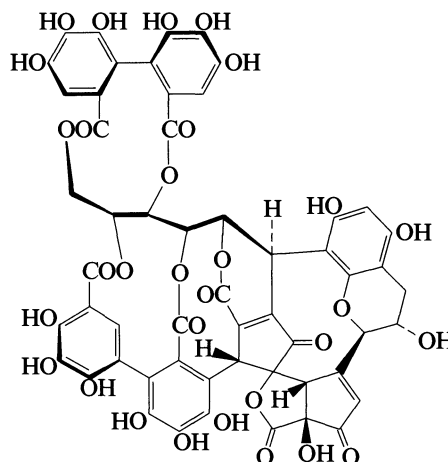
Isol. from the bark of *Psidium guajava*. Pale brown amorph. powder + 6H₂O. [α]_D³¹ – 47.4° (c, 1.0 in MeOH).

Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2092 (*cd*, *pmr*, *cmr*)

Psiguavin

P-10164

[145826-29-5]



C₅₅H₃₄O₃₁ M 1190.855

Tannin derived from the bark of *Psidium guajava*. Pale brown amorph. powder + 9½H₂O. [α]_D²⁷ – 62.9° (c, 0.5 in MeOH).

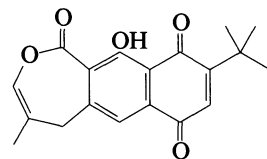
Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2092 (*pmr*, *cmr*)

Psorolactone B

P-10165

9-(1,1-Dimethyl-2-propenyl)-11-hydroxy-4-methylnaphth[2,3-c]oxepin-1,7,10(5H)-trione, 9CI

[120090-78-0]



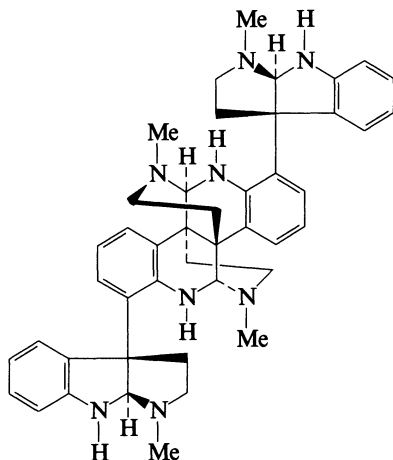
C₂₀H₁₈O₅ M 338.359

Isol. from *Psorospermum glaberrimum*. Cryst. Mp 217-218°.

Botta, B. *et al*, *Tetrahedron*, 1988, **44**, 7193 (*isol*, *pmr*, *cmr*)

Psycholeine

[144424-79-3]



$C_{44}H_{50}N_8$ M 690.933

Alkaloid from *Psychotria oleoides* (Rubiaceae). $[\alpha]_D^{20} -150^\circ$ (c, 0.4 in EtOH).

Guéritte-Voegelien, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 923 (isol, uv, ir, pmr, cmr, ms, cd, struct)

P-10166

$C_{26}H_{41}NO_8$ M 495.612

Alkaloid from *Consolida pubescens* (Ranunculaceae). Cryst. (EtOAc). Mp 227-229°. $[\alpha]_D -1.3^\circ$ (c, 0.15 in EtOH).

6-Epimer: [125263-90-3]. **6-Epipubescenine**. 6-epi-Pubescenine

$C_{26}H_{41}NO_8$ M 495.612

Minor alkaloid from *Delphinium nuttallianum* (Ranunculaceae). Amorph. solid. $[\alpha]_D^{23} +23^\circ$ (CHCl₃).

O¹⁸-De-Me, 6-deoxy: **Ajadelphine**

$C_{25}H_{39}NO_7$ M 465.586

Alkaloid from roots of *Delphinium ajacis* (Ranunculaceae). Amorph. $[\alpha]_D +2.0^\circ$ (c, 0.13 in CHCl₃).

de la Fuente, G. *et al*, *Tetrahedron Lett.*, 1988, **29**, 2723 (isol, ir, pmr, cmr, ms, cryst struct)

Bai, Y. *et al*, *Heterocycles*, 1989, **29**, 1017 (isol, ir, pmr, cmr, ms, struct, epimer)

Pelletier, S.W. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 736 (Ajadelphine)

Psylostearyl alcohol

P-10167

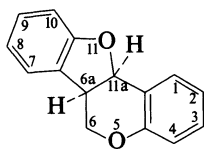
Constit. of the roots of *Gueldenstaedtia multiflora*.

Zhu, R. *et al*, *Zhongcaoyao*, 1984, **15**, 337; *CA*, **101**, 226841r.

Pterocarpan

P-10168

6a,11a-Dihydro-6H-benzofurano[3,2-c][1]benzopyran, 9CI [61080-21-5]



$C_{15}H_{12}O_2$ M 224.259

Parent nucleus of a group of natural prods. The generally agreed numbering scheme was amended in 1965.

(6aRS,11aRS)-form

(±)-cis-form

Cryst. Mp 125-127°.

Harper, S.H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1965, 310.

Horino, H. *et al*, *J. Chem. Soc., Chem. Commun.*, 1976, 500

(synth)

Jain, A.C. *et al*, *J. Sci. Ind. Res.*, 1978, **37**, 287 (rev)

Gopalsany, A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1988, 28

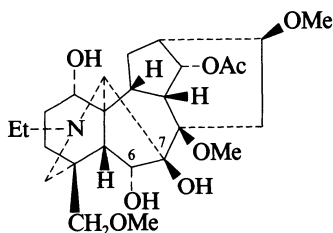
(synth)

Pubescenine†

P-10169

Updated Entry replacing P-02140

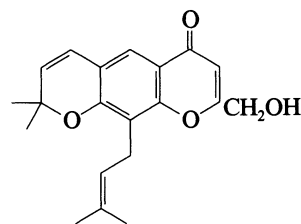
[116339-93-6]



Pulverochromenol

P-10170

8-(Hydroxymethyl)-2,2-dimethyl-10-(3-methyl-2-butenyl)-2H,6H-benzo[1,2-b:5,4-b']dipyran-6-one, 9CI [85394-12-3]



$C_{20}H_{22}O_4$ M 326.391

Constit. of *Cneorum pulverulentum* and *C. tricoccum*.

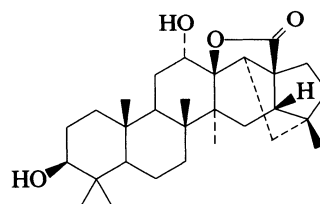
Shows cytostatic props.

Gonzalez, A.G. *et al*, *Planta Med.*, 1983, **47**, 56.

Pulverulactone

P-10171

[151200-62-3]



$C_{29}H_{44}O_4$ M 456.664

Constit. of *Pfaffia pulverulenta*. Cryst. (CHCl₃/MeOH).

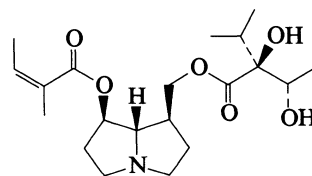
Mp 280-282°. $[\alpha]_D +62^\circ$ (c, 1 in CHCl₃).

Shiobara, Y. *et al*, *Phytochemistry*, 1993, **33**, 897 (isol, pmr, cmr)

Punctanecine

P-10172

[145204-91-7]



$C_{20}H_{33}NO_6$ M 383.484

Abs. stereochem. is tentative. Alkaloid from *Liatris punctata* (Compositae). Yellow oil. $[\alpha]_D^{23} -2.5^\circ$ (c, 0.4 in CHCl_3).

[145307-23-9]

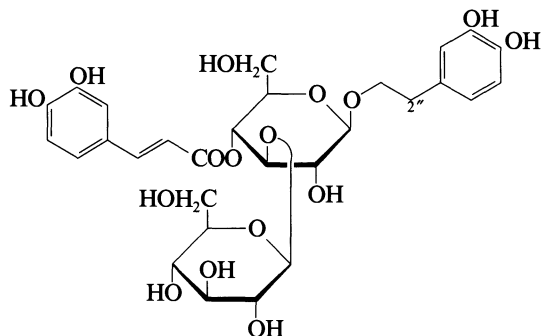
Mead, E.W. *et al*, *Phytochemistry*, 1992, **31**, 3255 (*isol*, *pmr*, *cmr*, *ms*, *struct*)

Purpureaside A

P-10173

Plantamoside. Plantamajoside

[104777-68-6]



$\text{C}_{29}\text{H}_{36}\text{O}_{16}$ M 640.594

Isol. from the leaves of *Digitalis purpurea*, *Lagotis stolonifera* and *Plantago major*. Exhibits antibacterial activity against *E. coli*, *Staphylococcus aureus* and several plant pathogenic bacteria. Decreases some human leukocyte functions. Amorph. powder. $[\alpha]_D^{19} -54.3^\circ$ (c, 0.8 in MeOH).

2''-Hydroxy: [132278-04-7]. **Heliciside**

$\text{C}_{29}\text{H}_{36}\text{O}_{17}$ M 656.593

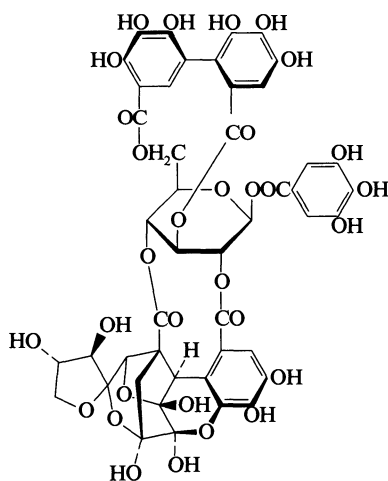
Isol. from aerial parts of *Plantago asiatica*. Amorph. yellow powder. Mp 182.6-190.3°. $[\alpha]_D^{23} -27^\circ$ (c, 1.0 in MeOH).

Matsumoto, M. *et al*, *Phytochemistry*, 1987, **26**, 3225 (*isol*, *pmr*, *cmr*)

Ravn, H. *et al*, *Phytochemistry*, 1988, **27**, 3433; 1990, **29**, 3627 (*isol*, *pmr*, *cmr*, *pharmacol*)

Putranjivain A

P-10174



$\text{C}_{46}\text{H}_{34}\text{O}_{31}$ M 1082.756

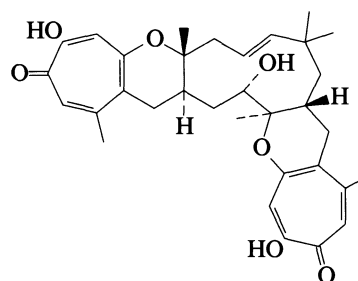
Isol. from the leaf of *Macaranga sinensis*.

Lin, J.-H. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 1844 (*struct*)

Pycnidione

P-10175

[149064-34-6]



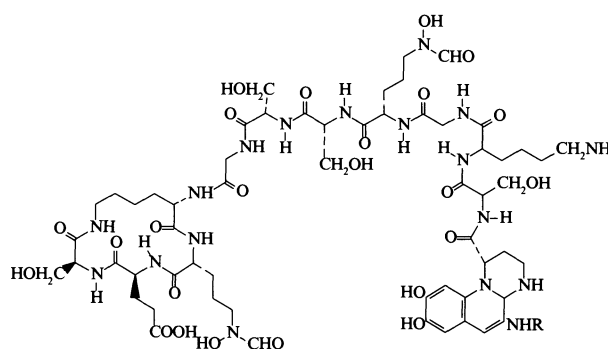
$\text{C}_{33}\text{H}_{40}\text{O}_7$ M 548.675

Metab. of a *Phoma* sp. Cryst. (EtOH). Mp 216-219° dec. $[\alpha]_D^{25} +278^\circ$ (c, 0.23 in CH_2Cl_2).

Harris, G.H. *et al*, *Tetrahedron*, 1993, **49**, 2139 (*isol*, *pmr*, *cmr*, *cryst struct*)

Pyoverdin Pf12

P-10176



Pyoverdin Pf12-IA R = $\text{COCH}_2\text{CH}_2\text{COOH}$
 Pyoverdin Pf12-IIA R = $\text{COCH}_2\text{CH}_2\text{CONH}_2$
 Pyoverdin Pf12-IB R = $\text{COCH}_2\text{CH}_2\text{COCOOH}$
 Pyoverdin Pf12-IIB R = $\text{COCH}_2\text{CH}_2\text{CH}(\text{NH}_2)\text{COOH}$ (L)

Isol. from cultures of *Pseudomonas fluorescens*. Siderophore.

Pyoverdin Pf12-IA [141073-88-3]

$\text{C}_{62}\text{H}_{92}\text{N}_{18}\text{O}_{27}$ M 1521.513

Pyoverdin Pf12-IB [141073-89-4]

$\text{C}_{63}\text{H}_{92}\text{N}_{18}\text{O}_{28}$ M 1549.524

Pyoverdin Pf12-IIA [141095-99-0]

$\text{C}_{62}\text{H}_{93}\text{N}_{19}\text{O}_{26}$ M 1520.528

Pyoverdin Pf12-IIB [141073-90-7]

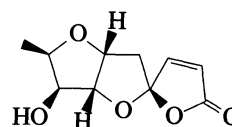
$\text{C}_{63}\text{H}_{95}\text{N}_{19}\text{O}_{27}$ M 1550.555

Geisen, K. *et al*, *Monatsh. Chem.*, 1992, **123**, 151.

Pyrenolide D

P-10177

Pyrenolide I. 3'a,5',6',6'a-Tetrahydro-6'-hydroxy-5'-methylspiro[furan-2(5H),2'(3'H)furo[3,2-b]furan]-5-one, 9CI [120593-80-8]



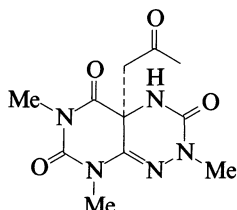
$\text{C}_{10}\text{H}_{12}\text{O}_5$ M 212.202

Metab. of *Pyrenophora teres*. Cytotoxic. Needles (EtOAc/hexane). Mp 158°. $[\alpha]_D^{23} + 79.5^\circ$ (c, 0.9 in CHCl_3).

Nukina, M. *et al*, *Biosci., Biotechnol., Biochem.*, 1992, **56**, 1158 (isol, struct)

Pyrizinostatin**P-10178**

2,4,4a,8-Tetrahydro-2,6,8-trimethyl-4a-(2-oxo propyl)pyrimido[5,4-c]-1,2,4-triazine-3,5,7(6H)-trione, 9CI [146406-84-0]



Relative configuration

$\text{C}_{11}\text{H}_{15}\text{N}_5\text{O}_4$ M 281.271

Prod. by *Streptomyces* sp. Pyroglutamyl peptidase inhibitor. Cryst (MeOH). Mp 188-190°. $[\alpha]_D^{24} - 15.6^\circ$ (c, 1 on MeOH).

Aoyagi, T. *et al*, *J. Antibiot.*, 1992, **45**, 1795, 1961 (isol, struct, props)

1H-Pyrrole-2,5-dicarboxylic acid, 9CI**P-10179**

[937-27-9]

$\text{C}_6\text{H}_5\text{NO}_4$ M 155.110

Alkaloid from leaves of *Berberis koreana* (Berberidaceae). Needles (EtOH aq.). Sol. Et_2O , Me_2CO ; insol. CHCl_3 , EtOAc, C_6H_6 , pet. ether. Mp 260° dec. (245°).

Mono-Me ester: [1199-64-0].

$\text{C}_7\text{H}_7\text{NO}_4$ M 169.137

Alkaloid from leaves of *B. koreana* (Berberidaceae). Mp 241-242° (204-206°).

Di-Me ester: [1757-29-5].

$\text{C}_8\text{H}_9\text{NO}_4$ M 183.163

Needles (H_2O). Sol. EtOH, Et_2O , C_6H_6 . Mp 132° (126-127°).

Di-Et ester:

$\text{C}_{10}\text{H}_{13}\text{NO}_4$ M 211.217

Needles. Mp 82°.

Nicolaus, R.A. *et al*, *Gazz. Chim. Ital.*, 1956, **86**, 358 (synth)

U.S. Pat., 2 900 386, (1959); *CA*, **54**, 1557h (synth)

Barker, P. *et al*, *J. Org. Chem.*, 1978, **43**, 4849 (derivs)

Koštalová, D. *et al*, *Phytochemistry*, 1992, **31**, 3669 (isol, uv, ir, pmr, cmr, ms, struct)

Pyruvic acid**P-10180**

2-Oxopropanoic acid, 9CI. Pyroracemic acid. Acetylformic acid

[127-17-3]



$\text{C}_3\text{H}_4\text{O}_3$ M 88.063

Intermed. in primary metab. incl. fermentation processes.

Present in muscle in redox equilib. with Lactic acid.

Constit. of *Bauhinia purpurea*, *Cicer arietinum*, *Delonix regia*, *Pisum sativum* and *Trigonella caerulea*. Reagent

for regeneration of carbonyl compds. from semicarbazones, phenylhydrazones and oximes. Cryst. or liq. with odour resembling acetic acid. Misc. H_2O , EtOH, Et_2O . Mp ca. 13.6°. Bp 165° part. dec., Bp₁₀ 65°.

$\text{p}K_{a1}$ 2.39 (25°). Impure samples dec. on standing.

Me ester: [600-22-6].

$\text{C}_4\text{H}_6\text{O}_3$ M 102.090

Bp 134-137°.

Me ester, oxime:

$\text{C}_4\text{H}_7\text{NO}_3$ M 117.104

Needles (Et_2O). Mp 69°. Bp₁₄ 122-123°.

Me ester, 2,4-dinitrophenylhydrazone: Mp 186.5-187.5°.

Et ester: [617-35-6].

$\text{C}_5\text{H}_8\text{O}_3$ M 116.116

Bp 155°, Bp₁₇ 55°.

Et ester, oxime: [20591-87-1].

$\text{C}_5\text{H}_9\text{NO}_3$ M 131.131

Prisms or needles. Mp 97°. Bp 213° sl. dec.

Et ester, semicarbazone: Mp 206° dec.

Et ester, 2,4-dinitrophenylhydrazone: Yellow cryst. (dioxan/EtOH). Mp 154.5-155°.

Amide: [631-66-3].

$\text{C}_3\text{H}_5\text{NO}_2$ M 87.078

Prisms or plates (EtOH). Mp 124-125°.

Amide, oxime:

$\text{C}_3\text{H}_6\text{N}_2\text{O}_2$ M 102.093

Plates or prisms (H_2O). Mp 178.5° dec.

Amide, semicarbazone: Mp 230° dec.

Nitrile: [631-57-2]. Acetyl cyanide

$\text{C}_3\text{H}_3\text{NO}$ M 69.063

Liq. with characteristic odour. Bp 93°.

Nitrile, phenylhydrazone: Leaflets (C_6H_6). Mp 150-151°.

Nitrile, semicarbazone: Mp 215° dec.

2,4-Dinitrophenylhydrazone: Used as a 0.05% soln. in EtOH as acid-base indicator (pH range; 11.9→12.9; colour change: light yellow → pink red). Yellow cryst. (AcOH). Mp 218°.

Oxime: [2211-14-5]. 2-Isonitrosopropanoic acid

$\text{C}_3\text{H}_5\text{NO}_3$ M 103.077

Dec. at 180-1°.

Semicarbazone: Needles (H_2O). Mp ca. 200° dec.

Thiosemicarbazone: [10418-09-4]. Pyroracemic acid

thiosemicarbazone. 2-[(Aminothioxomethyl)hydrazono]propanoic acid, 9CI

$\text{C}_4\text{H}_7\text{N}_3\text{O}_2\text{S}$ M 161.184

Used as 5mM aq. soln. for catalytic detn. of Rh(III) (10^{-6} - 10^{-5} M, pH~4). Cryst. Sol. H_2O , EtOH.

Di-Et ketal: [25741-02-0]. 2,2-Diethoxypropanoic acid

$\text{C}_7\text{H}_{14}\text{O}_4$ M 162.185

Oil. Unstable to dist.

Di-Et ketal, amide: [92845-55-1]. 2,2-Diethoxypropanamide

$\text{C}_7\text{H}_{15}\text{NO}_3$ M 161.200

Cryst. solid (pet. ether). Mp 70-71° (65-66°).

Tschelinzeff, W. *et al*, *Ber.*, 1929, **62**, 2211 (synth)

Org. Synth., Coll. Vol., 1, 1932, 475 (synth)

Virtanen, A.I. *et al*, *Nature (London)*, 1939, **144**, 597 (isol)

Allen, E.H., *J. Am. Chem. Soc.*, 1950, **52**, 2955 (synth)

Chugreeva, N.V. *et al*, *Zh. Anal. Khim.*, 1960, **15**, 391 (use)

Org. Synth., Coll. Vol., 4, 1963, 467 (synth)

Fieser and Fieser's *Reagents for Organic Synthesis*, Wiley, 1967, **1**, 774; **7**, 310.

Mukherjee, D. *et al*, *Curr. Sci.*, 1974, **43**, 118 (isol)

Mukherjee, D. *et al*, *Phytochemistry*, 1975, **14**, 1915 (isol)

Harata, K. *et al*, *Acta Crystallogr., Sect. B*, 1977, **33**, 210 (cryst struct)

Mukherjee, D. *et al*, *Experientia*, 1977, **33**, 304 (isol)

Neh, K.H., *Gordian*, 1986, **86**, 9; *CA*, **105**, 5347q (isol)

LaMattina, J.L. *et al*, *J. Org. Chem.*, 1987, **52**, 3479 (acetals)

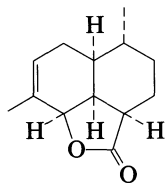
Ezerskaya, N.A. *et al*, *Zh. Anal. Khim.*, 1988, **43**, 846 (synth, detn, Rh, thiosemicarbazone)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, PQCI00.

Q

Qinghaosu I

Q-10001

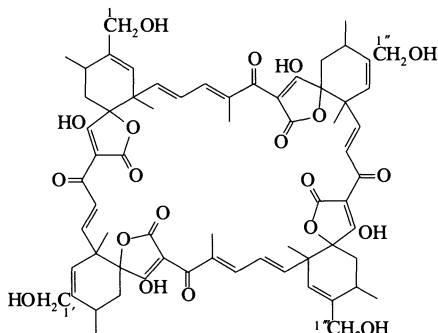


$C_{13}H_{18}O_2$ M 206.284
 Constit. of *Artemisia annua*. Cryst. Mp 152-153°. $[\alpha]_D^{25}$
 -36.1° (c, 19 in MeOH).
 Misra, L.-N. *et al*, *Phytochemistry*, 1993, **33**, 1461 (*isol*, *pmr*, *cmr*)

Quartromicin D₃

Q-10002

Updated Entry replacing Q-00005



$C_{66}H_{72}O_{20}$ M 1185.283
 Macrocyclic antibiotic. The Quartromicin complex was
 originally called Antibiotic BU 3889V. Isol. from
Amycolatopsis orientalis. Antiviral agent. Mp > 250°.
 $[\alpha]_D^{25}$ -17° (c, 0.4 in Py).

1,1'''-Di-O- α -D-galactopyranoside: [136765-21-4].

Quartromicin A₃

$C_{78}H_{92}O_{30}$ M 1509.567
 From *A. orientalis*. Antiviral agent. Mp > 250°. $[\alpha]_D^{25}$
 +36° (c, 0.5 in H₂O).

1''-Aldehyde: Quartromicin D₂

$C_{66}H_{70}O_{20}$ M 1183.267
 Prod. by *A. orientalis*. Antiviral agent. Mp > 250°. $[\alpha]_D^{25}$
 -13° (c, 0.4 in Py).

1''-Aldehyde, 1,1'''-di-O- α -D-galactopyranoside: [136765-20-3].

Quartromicin A₂

$C_{78}H_{90}O_{30}$ M 1507.551
 From *A. orientalis*. Antiviral agent. Mp > 250°. $[\alpha]_D^{25}$
 +108° (c, 0.5 in H₂O).

1',1''-Dialdehyde: Quartromicin D₁

$C_{66}H_{68}O_{20}$ M 1181.251
 Prod. by *A. orientalis*. Antiviral agent. Mp > 250°. $[\alpha]_D^{25}$
 +34° (c, 0.4 in Py).

1',1''-Dialdehyde, 1,1'''-di- α -D-galactopyranoside:

Quartromicin A₁

$C_{78}H_{88}O_{30}$ M 1505.535
 Prod. by *A. orientalis*. Antiviral agent. Mp > 250°. $[\alpha]_D^{25}$
 +180° (c, 0.5 in H₂O).

[136765-16-7, 136765-17-8, 136765-18-9]

Kusumi, T. *et al*, *J. Am. Chem. Soc.*, 1991, **113**, 8947 (*struct*)
 Tsunakawa, M. *et al*, *J. Antibiot.*, 1992, **45**, 180 (*isol*, *props*, *ir*, *uv*,
pmr, *cmr*)

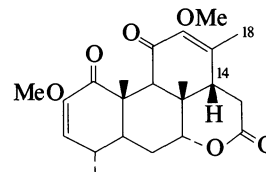
Quassin

Q-10003

Updated Entry replacing Q-00006

Nigakilactone D

[76-78-8]



$C_{22}H_{28}O_6$ M 388.460
 Bitter constit. of *Quassia amara*, *Picrasma excelsa* and
Ailanthus glandulosa. Shows insecticidal activity. Cryst.
 (MeOH aq.). Mp 221-222°. $[\alpha]_D^{20}$ +34.5° (c, 5.09 in
 CHCl₃).

18-Hydroxy: 18-Hydroxyquassin

$C_{22}H_{28}O_7$ M 404.459
 Isol. from coml. Quassin. Cryst. (EtOAc). Mp 232-233°.
 $[\alpha]_D^{20}$ +24° (c, 1 in CHCl₃).

14-Epimer: Isoquassin. Picrasmin

$C_{22}H_{28}O_6$ M 388.460
 Isol. from *Aeschron excelsa*. Shows insecticidal activity.
 Plates and rods (MeOH aq.). Mp 222-225°. $[\alpha]_D^{20}$ +46.6°
 (CHCl₃).

1 α -Alcohol, Me ether: 1 α -O-Methylquassin

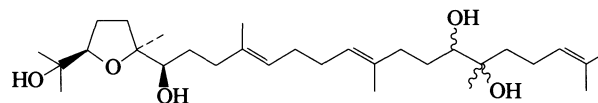
$C_{23}H_{32}O_6$ M 404.502
 Constit. of *Q. amara*. Powder (MeOH). Mp 168-172°.

Clark, E.P., *J. Am. Chem. Soc.*, 1938, **60**, 1146 (*isol*, *deriv*)
 Adams, W., *J. Am. Chem. Soc.*, 1950, **72**, 375 (*synth*)
 Valente, A. *et al*, *Tetrahedron*, 1961, **15**, 100; 1962, **18**, 1433 (*isol*,
struct, *uv*, *ir*, *pmr*)
 Casinovi, C. *et al*, *CA*, 1966, **66**, 75879 (18-Hydroxyquassin)
 Vitagliano, J.C. *et al*, *Phytochemistry*, 1972, **11**, 807 (*synth*)
 Stojanac, N. *et al*, *Can. J. Chem.*, 1975, **53**, 619 (*synth*)
 Vidari, G. *et al*, *J. Am. Chem. Soc.*, 1984, **106**, 3539 (*synth*)
 Kim, M. *et al*, *J. Org. Chem.*, 1990, **55**, 504 (*synth*)
 Barbetti, P. *et al*, *Phytochemistry*, 1993, **32**, 1007 (1- α -O-
 Methylquassin)

Quassiol

Q-10004

[149297-96-1]



$C_{30}H_{54}O_5$ M 494.754
 Constit. of *Quassia multiflora*. Gum.

Tinto, W.F. *et al*, *Tetrahedron Lett.*, 1993, **34**, 1705 (*isol*, *pmr*,
cmr)

Quercetin 3-arabinoside**Q-10005**

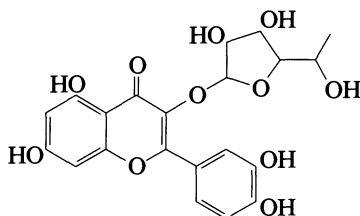
[30370-87-7]

 $C_{20}H_{18}O_{11}$ M 434.356

Isol. from numerous plant spp.

Saleh, N.A.M. *et al*, *Phytochemistry*, 1976, **15**, 835 (*isol*)Marston, A. *et al*, *Phytochemistry*, 1984, **23**, 1824 (*isol*)**Quercetin 3-*O*- α -L-rhamnofuranoside****Q-10006**

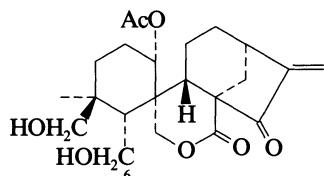
[5088-73-3]

 $C_{21}H_{20}O_{11}$ M 448.382Constit. of *Caragana jubata*, *C. pygmaea*, *Juniperus sabina* and *Betula folium*. Light yellow needles. Mp 183-185°. $[\alpha]_D^{20} -187^\circ$ (c, 0.1 in MeOH).Umarov, A. *et al*, *Khim. Prir. Soedin.*, 1971, **7**, 522; *Chem. Nat. Compd. (Engl. Transl.)*, 499 (*isol*)Abil'kaeva, S.A. *et al*, *Khim. Prir. Soedin.*, 1981, **17**, 799; *Chem. Nat. Compd. (Engl. Transl.)*, 590 (*isol*)

R

Rabdokaurin D

Updated Entry replacing R-00003
[150172-60-4]



$C_{22}H_{30}O_7$ M 406.475

Constit. of *Rabdosia longituba*. Needles (MeOH). Mp 227-230°. $[\alpha]_D^{25} + 34.1^\circ$ (c, 0.62 in MeOH).

6-Ac: [142465-71-2]. *Rabdokaurin B*

$C_{24}H_{32}O_8$ M 448.512

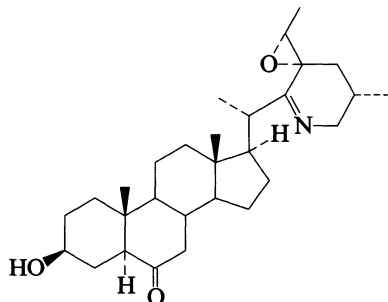
Constit. of *R. longituba*. Amorph. powder. $[\alpha]_D^{26} + 57.6^\circ$ (c, 0.81 in MeOH).

Takeda, Y. *et al*, *Phytochemistry*, 1992, **31**, 1687 (*Rabdokaurin B*)

Takeda, Y. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 685 (*isol*, *pmr*, *cmr*)

Radpetine

[139751-06-7]



$C_{29}H_{45}NO_3$ M 455.679

Alkaloid from epigeal parts of *Petilium raddeana* (Liliaceae). Cryst. (Me₂CO/pet. ether). Mp 229-231°.

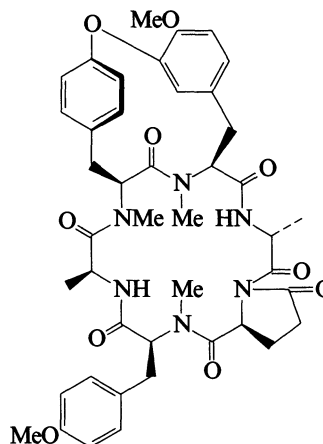
Ac: Cryst. Mp 100-103°.

Tashkhodzhaev, B. *et al*, *Khim. Prir. Soedin.*, 1991, 384; *Chem. Nat. Compd. (Engl. Transl.)*, 332 (*isol*, *ir*, *pmr*, *ms*, *cryst struct*)

R-10001

RA-IX

[140679-93-2]



$C_{43}H_{50}N_6O_{10}$ M 810.902

Cyclic hexapeptide antibiotic. *Isol.* from *Rubia cordifolia*.

Needles (MeOH). Mp 242-243°. $[\alpha]_D^{20} - 158.1^\circ$ (c, 0.94 in CHCl₃). Exhibits virtually no antitumour activity.

Itokawa, H. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1992, 455 (*isol*, *struct*)

R-10002

Ranakinin

9-Glycine-10-L-leucineranatachykinin D, 9CI

[139446-71-2]

H-Lys-Pro-Asn-Pro-Glu-Arg-Phe-Tyr-Gly-Leu-Met-NH₂

Isol. from the brain of *Rana ridibunda*. NK1 tachykinin receptor agonist.

O'Harte, F. *et al*, *J. Neurochem.*, 1991, **57**, 2086 (*isol*)

R-10004

Ranatensin R

[70572-93-9]

H-Ser-Asn-Thr-Ala-Leu-Arg-Arg-Tyr-Asn-Gln-Trp-Ala-Thr-Gly-His-Phe-Met-NH₂

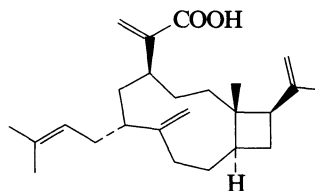
Constit. of the skin of *Rana rugosa*.

Yasuhara, T. *et al*, *Chem. Pharm. Bull.*, 1979, **27**, 492 (*isol*, *struct*)

R-10005

Raoulic acid

R-10006



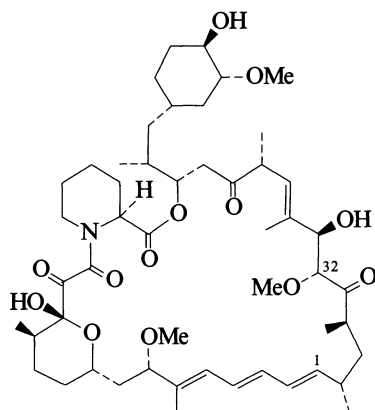
$C_{25}H_{38}O_2$ M 370.574

Constit. of *Raoulia australis*. Oil. $[\alpha]_D^{20} - 3.7^\circ$ (c, 2.2 in CHCl₃).

Bloor, S.J., *Tetrahedron Lett.*, 1993, **34**, 5617.

Rapamycin

Updated Entry replacing R-00046
AY 22989. Antibiotic AY 22989
[53123-88-9]



$C_{51}H_{79}NO_{13}$ M 914.184

Polyene-type antibiotic. Prod. by *Streptomyces hygroscopicus*. Antifungal agent. Antineoplastic and immunosuppressant properties. Cryst. (Et₂O). Mp 183-185°. $[\alpha]_D^{25} - 58.2^\circ$ (MeOH).

▶ LD₅₀ (mus, orl) 2500 mg/kg. VE6250000.

32-Demethoxy: [83482-58-0]. **Demethoxyrapamycin**. AY 24668. Antibiotic AY 24668

$C_{50}H_{77}NO_{12}$ M 884.158

From *S. hygroscopicus*. Antifungal agent with v. slight antitumour activity. Cryst. (Et₂O). Mp 122-124°. $[\alpha]_D^{25} - 124.4^\circ$ (MeOH).

32-O-De-Me: **De-O-methylrapamycin**

$C_{50}H_{77}NO_{13}$ M 900.157

Isol. from *S. hygroscopicus*. Immunosuppressant.

7,32-O-Di-de-Me: **Dide-O-methylrapamycin**

$C_{49}H_{75}NO_{13}$ M 886.130

Isol. from *S. hygroscopicus*. Immunosuppressant.

[85537-35-5]

U.S. Pat., 3 993 749, (1972); CA, **86**, 41806 (synth, ir, pmr)
Vézina, C. et al, *J. Antibiot.*, 1975, **28**, 721; 1983, **36**, 351 (isol)
Swindells, D.C.N. et al, *Can. J. Chem.*, 1978, **56**, 2491 (cryst struct)

Baker, H. et al, *J. Antibiot.*, 1978, **31**, 539; 1979, **32**, 630 (pharmacol)

Findlay, J.A. et al, *Can. J. Chem.*, 1982, **60**, 2046 (uv, ir, pmr, cmr, ms, cd)

U.S. Pat., 4 375 464, (1983); CA, **98**, 177506 (isol)

McAlpine, J.B. et al, *J. Antibiot.*, 1991, **44**, 688 (pmr, cmr)

Paiva, N.L. et al, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 167 (cmr, biosynth)

Curran, D.P. et al, *Tetrahedron Lett.*, 1992, **33**, 2295 (synth)

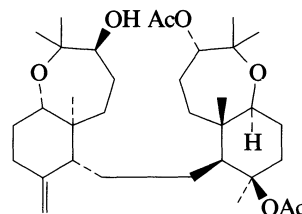
U.S. Pat., 5 091 389, 5 093 338, (1992); CA, **116**, 233900, 233901 (Demethyl derivs)

Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, London, 1993, 499-1.

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, RBK000.

R-10007**Raspacionin**

Updated Entry replacing R-00050
[132210-64-1]



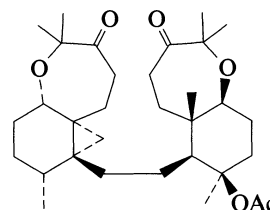
$C_{34}H_{56}O_7$ M 576.812

Constit. of sponge *Raspaciona aculeata*. Prisms (heptane). Mp 188-189°. $[\alpha]_D + 31.4^\circ$ (c, 1.5 in CHCl₃).

Cimino, G. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1622 (abs config, cryst struct)

Raspacionin B

[148371-08-8]



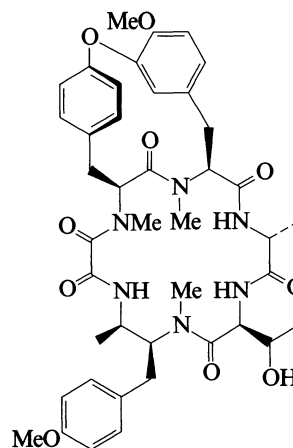
$C_{32}H_{50}O_6$ M 530.743

Constit. of *Raspaciona aculeata*. Amorph. powder. $[\alpha]_D^{25} + 10.8^\circ$ (c, 0.21 in CHCl₃).

Cimino, G. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 534 (isol, pmr, cmr)

RA-VIII

[138994-83-9]



$C_{42}H_{52}N_6O_{10}$ M 800.907

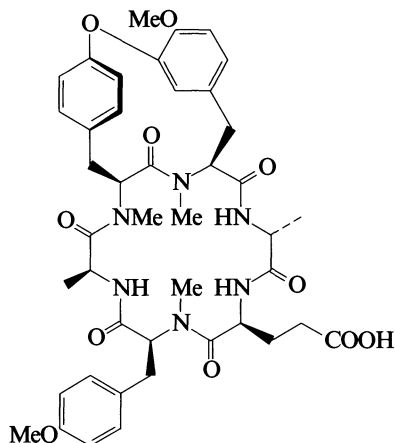
Cyclic hexapeptide antibiotic. Isol. from *Rubia cordifolia*. Antitumour agent. Needles (MeOH). Mp 267-269°. $[\alpha]_D - 159.5^\circ$ (c, 0.39 in CHCl₃).

Itokawa, H. et al, *Tetrahedron*, 1991, **47**, 7007 (isol, pmr, cmr, struct)

R-10008**R-10009****R-10010**

RA-X

[140679-94-3]

 $C_{43}H_{52}N_6O_{11}$ M 828.917

Cyclic hexapeptide antibiotic. Isol. from *Rubia cordifolia*.
Antitumour agent. Needles (MeOH). Mp 254.5-255.5°.
[α]_D²⁰ –205.4° (c, 1.43 in CHCl₃/MeOH).

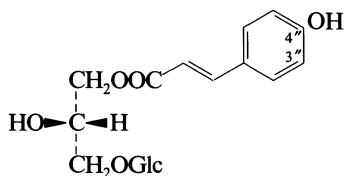
[140850-99-3]

Itokawa, H. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1992, 455 (*isol, struct*)

Regaloside A

3'-O-Glucosyl-1-O-p-hydroxycinnamoyl-sn-glycerol

[114420-66-5]

 $C_{18}H_{24}O_{10}$ M 400.382

Acylated glycerol glycoside. Isol. from the bulbs of *Lilium henryi*, *L. lancifolium*, *L. regale*, *L. pardarinum*, *L. auratum* and *Fritillaria camtschaticensis*. Pale yellow amorph. powder. [α]_D²⁵ –17° (c, 1.0 in MeOH) (–14.1°).
Bitter taste.

Hexa-Ac: Needles (EtOH). Mp 138-141° (137-139°).

4'-Me ether: [117591-86-3]. **Methylregaloside A** $C_{19}H_{26}O_{10}$ M 414.408

Constit. of *L. henryi*. Cryst. (Et₂O/MeOH). Mp 146-148°. [α]_D²² –13° (c, 0.20 in MeOH).

3''-Hydroxy: [117591-85-2]. **Regaloside C** $C_{18}H_{24}O_{11}$ M 416.381

Isol. from bulbs of *L. henryi* and *L. pardarinum*. Pale yellow amorph. powder. [α]_D²⁷ –11.3° (c, 0.62 in MeOH).

Shimomura, H. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 2430, 4841 (*isol, pmr, cmr, occur*)

Shimomura, H. *et al*, *Phytochemistry*, 1988, **27**, 451 (*isol*)Mimaki, Y. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 1090, 3055 (*isol*)Mimaki, Y. *et al*, *Phytochemistry*, 1991, **30**, 937.

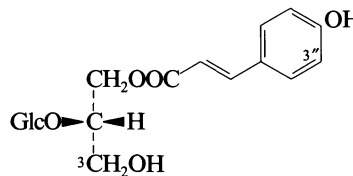
R-10011

Regaloside D

R-10013

2-Hydroxy-1-[[[3-(4-hydroxyphenyl)-1-oxo-2-propenyloxy]methyl]ethyl β -D-glucopyranoside, 9CI. 2-O-Glucosyl-1-O-p-hydroxycinnamoyl-sn-glycerol

[120601-66-3]

 $C_{18}H_{24}O_{10}$ M 400.382

Isol. from various lily species; *Lilium longiflorum*, *L. pardarinum*, *L. auratum* and *L. brownii*. Pale yellow amorph. powder. [α]_D²⁷ –24.6° (c, 0.39 in MeOH).

3-Ac: [114420-67-6]. **Regaloside B** $C_{20}H_{26}O_{11}$ M 442.419

Isol. from bulbs of *L. longiflorum*, *L. regale* and *L. brownii*. Pale yellow amorph. powder. [α]_D¹⁵ –21.2° (c, 1.0 in MeOH). Bitter taste.

Hexa-Ac: Needles (EtOH). Mp 118-120°.

3''-Methoxy: [120601-64-1]. **Regaloside G. 3-O-Feruloyl-2-O-glucosyl-sn-glycerol** $C_{19}H_{26}O_{11}$ M 430.408

Isol. from *L. auratum*. Pale yellow amorph. powder. [α]_D²³ –19.3° (c, 0.14 in MeOH).

Shimomura, H. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 4841.Shimomura, H. *et al*, *Phytochemistry*, 1988, **27**, 451.Mimaki, Y. *et al*, *Phytochemistry*, 1989, **28**, 3453; 1990, **29**, 2267.Mimaki, Y. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 3055.

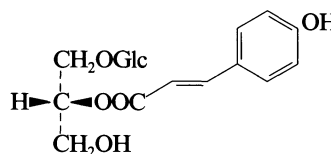
R-10012

Regaloside H

R-10014

2-O-p-Hydroxycinnamoyl-1-O-glucosyl-sn-glycerol. 3-Hydroxy-2-[[[3-(4-hydroxyphenyl)-1-oxo-2-propenyloxy]propyl β -D-glucopyranoside, 9CI

[126239-77-8]

 $C_{18}H_{24}O_{10}$ M 400.382

Constit. of *Lilium auratum* var. *platyphyllum*. Amorph. powder. [α]_D²³ –32° (c, 0.58 in MeOH).

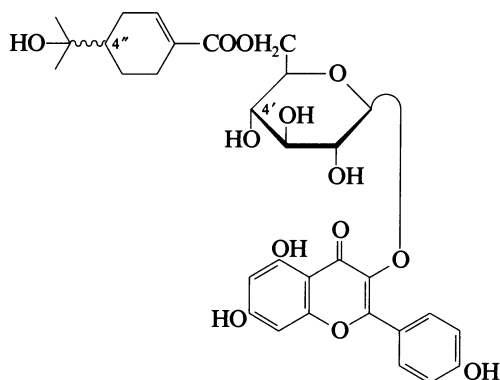
3-Ac: [126239-78-9]. **Regaloside I** $C_{20}H_{26}O_{11}$ M 442.419

Constit. of *L. auratum* var. *platyphyllum*. Amorph. powder. [α]_D –11.1° (c, 0.51 in MeOH).

Hexa-Ac: Amorph. powder. [α]_D²⁸ –7.1° (c, 0.3 in CHCl₃).Mimaki, Y. *et al*, *Phytochemistry*, 1989, **28**, 3453 (*isol, pmr, cmr*)

Resinoside A

[144027-79-2]

 $C_{31}H_{34}O_{13}$ M 614.602

Anomeric mixture at the C-4'' posn. Isol. from the leaves of *Eucalyptus resinifera*. Repellant against *Mytilus edulis*. $[\alpha]_D^{28} -12.7^\circ$ (c, 1 in MeOH).

4'-Epimer: [144027-78-1], **Resinoside B**

 $C_{31}H_{34}O_{13}$ M 614.602

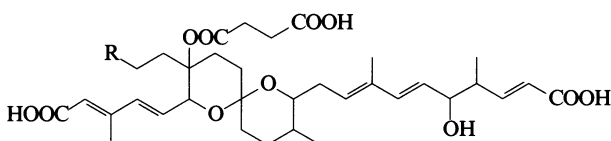
From *E. resinifera*. Repellant against *M. edulis*. $[\alpha]_D^{28} +7.6^\circ$ (c, 0.4 in MeOH).

Hyodo, S. *et al*, *Biosci., Biotechnol., Biochem.*, 1992, **56**, 138 (*isol, struct*)

Reveromycin A**R-10016**

Updated Entry replacing R-00157

[134615-37-5]

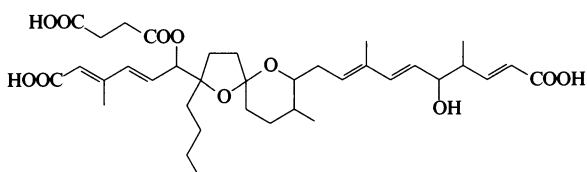
R = CH_2CH_3 $C_{36}H_{52}O_{11}$ M 660.800

Prod. by a *Streptomyces* sp. Inhibitor of mitogenic activity. Shows moderate antifungal activity. Eukaryotic cell growth inhibitor. Powder + $\frac{1}{2}H_2O$. Mp 95° . $[\alpha]_D^{20} -115^\circ$ (c, 0.1 in MeOH).

Takahashi, H. *et al*, *J. Antibiot.*, 1992, **45**, 1409, 1414, 1420 (*isol, pmr, cmr, struct, props*)

Reveromycin B**R-10017**

[144860-68-4]

 $C_{36}H_{52}O_{11}$ M 660.800

Prod. by a *Streptomyces* sp. Eukaryotic cell growth inhibitor. Powder. Mp $78-79^\circ$. $[\alpha]_D^{20} -66^\circ$ (c, 0.1 in MeOH).

Takahashi, H. *et al*, *J. Antibiot.*, 1992, **45**, 1409, 1414, 1420 (*isol, pmr, cmr, struct, props*)

R-10015**Reveromycin C**

[144860-69-5]

As Reveromycin A, R-10016 with

R = $-CH(CH_3)_2$ $C_{37}H_{54}O_{11}$ M 674.827

Prod. by a *Streptomyces* sp. Eukaryotic cell growth inhibitor. Powder. Mp $78-79^\circ$. $[\alpha]_D^{20} -90^\circ$ (c, 0.1 in MeOH).

Takahashi, H. *et al*, *J. Antibiot.*, 1992, **45**, 1409, 1414, 1420 (*isol, pmr, cmr, struct, props*)

Reveromycin D**R-10019**

[144860-70-8]

As Reveromycin A, R-10016 with

R = $-CH_2CH_2CH_3$ $C_{37}H_{54}O_{11}$ M 674.827

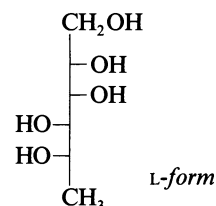
Prod. by a *Streptomyces* sp. Eukaryotic cell growth inhibitor. Powder. Mp $78-80^\circ$. $[\alpha]_D^{20} -112^\circ$ (c, 0.1 in MeOH).

Takahashi, H. *et al*, *J. Antibiot.*, 1992, **45**, 1409, 1414, 1420 (*isol, pmr, cmr, struct, props*)

Rhamnitol**R-10020**

1-Deoxymannitol, 9CI, 8CI. 6-Deoxymannitol

[1114-16-5]

 $C_6H_{14}O_5$ M 166.174

Constit. of bark of *Bauhinia thonningii*.

D-formMp $123-124^\circ$. $[\alpha]_D^{20} -12.0^\circ$ (c, 1.0 in H_2O).**L-form** [488-28-8]Mp $123-124^\circ$. $[\alpha]_D^{20} +12.0^\circ$ (H_2O).

3,4-O-Isopropylidene: 3,4-O-Isopropylidene-L-rhamnitol

 $C_9H_{18}O_5$ M 206.238Mp $79-80^\circ$. $[\alpha]_D -24^\circ$ (c, 2.2 in H_2O).

1,2:3,4-Di-O-isopropylidene: 1,2:3,4-Di-O-isopropylidene-L-rhamnitol

 $C_{12}H_{22}O_5$ M 246.303Mp $64-66^\circ$. $[\alpha]_D -16^\circ$ (c, 1.5 in MeOH).

1,2:3,4-Di-O-isopropylidene, 5-tosyl: 1,2:3,4-Di-O-isopropylidene-5-O-tosyl-L-rhamnitol

Mp $83-84^\circ$. $[\alpha]_D -13^\circ$ (c, 2.0 in $CHCl_3$).

1,3:2,5-Di-O-methylene, 4-tosyl: Mp $117-118^\circ$. $[\alpha]_D +49.3^\circ$ (c, 1.2 in $CHCl_3$).

2,5-Di-Me: $C_8H_{18}O_5$ M 194.227Mp $71-73^\circ$. $[\alpha]_D +27^\circ$ (c, 2.0 in H_2O).**DL-form**Mp $112-113^\circ$.

Haskins, W.T. *et al*, *J. Am. Chem. Soc.*, 1946, **68**, 628.

Gunner, S.W. *et al*, *Chem. Ind. (London)*, 1961, 255 (*glc*)

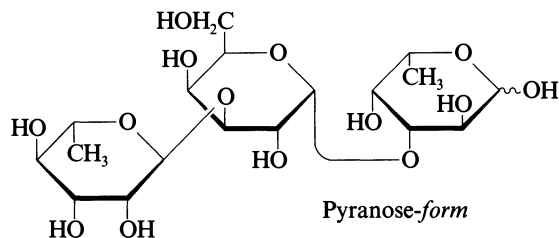
Foster, A.B. *et al*, *J. Chem. Soc.*, 1961, 4649.

Ferreira, M.A. *et al*, *Garcia de Orta*, 1963, **11**, 97; *CA*, **62**, 9458b.

Bukhari, M.A. *et al*, *J. Chem. Soc.*, 1963, 2287.

Grindley, T.B. *et al*, *Can. J. Chem.*, 1974, **52**, 4062.

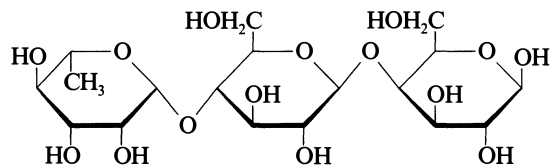
α -L-Rhamnopyranosyl-(1→3)- α -D-galactopyranosyl-(1→3)-L-fucose R-10021
 6-Deoxy- α -L-mannopyranosyl-(1→3)- α -D-galactopyranosyl-(1→3)-6-deoxy-L-galactose, 9CI
 [71144-75-7]



$C_{18}H_{32}O_{14}$ M 472.442
 Isol. from the partial acid hydrolysate of mucilage from the edible water plant junsai (*Brasenia schreberi*). $[\alpha]_D^{25} + 21.6^\circ$ (c, 2.0 in H_2O).

Kakuta, M. *et al*, *Agric. Biol. Chem.*, 1979, 43, 1269 (*isol*)

β -L-Rhamnopyranosyl-(1→4)- β -D-glucopyranosyl-(1→4)-D-galactose R-10022



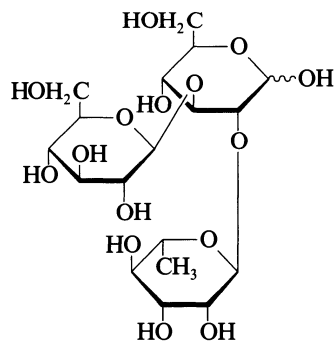
$C_{18}H_{32}O_{15}$ M 488.442
 Constit. of the capsular polysaccharide of *Streptococcus pneumoniae* type 23F.

β -Pyranose-form

3-Aminopropyl glycoside: $[\alpha]_D + 15^\circ$ (c, 0.2 in H_2O).

Van Steijn, A.M.P. *et al*, *J. Carbohydr. Chem.*, 1992, 11, 665 (*synth, cmr, pmr*)

α -L-Rhamnopyranosyl-(1→2)-[β -D-glucopyranosyl-(1→3)]-D-glucose R-10023
 2-O- α -L-Rhamnopyranosyllaminaribiose
 [28140-20-7]



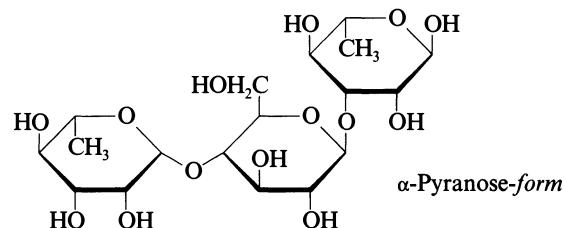
$C_{18}H_{32}O_{15}$ M 488.442

Isol. from a polysaccharide of Poplar and from Dode pollen (*Populus yunnanensis*). Mp 169-170° dec. (softens at 125°). $[\alpha]_D^{20} - 13.7^\circ$ (15 min.) $\rightarrow 8.2^\circ$ (24h) (c, 2.08 in H_2O).

Sosa, F. *et al*, *Bull. Soc. Chim. Belg.*, 1969, 51, 625.

Sosa, F. *et al*, *Phytochemistry*, 1970, 9, 441 (*isol*)

β -L-Rhamnopyranosyl-(1→4)- β -D-glucopyranosyl-(1→3)-L-rhamnose R-10024



$C_{18}H_{32}O_{14}$ M 472.442

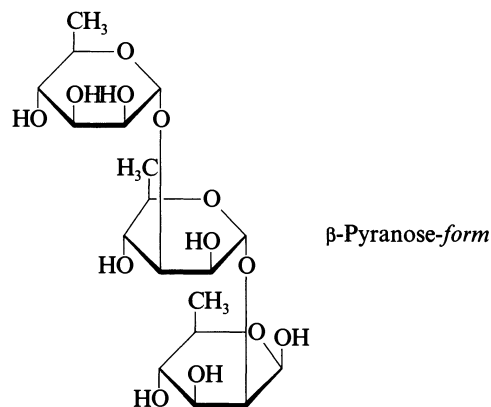
α -Pyranose-form

Constit. of the capsular polysaccharide of *Streptococcus pneumoniae* type 2.

3-Aminopropyl glycoside: Powder. $[\alpha]_D - 12^\circ$ (c, 0.6 in H_2O).

Van Steijn, A.M.P. *et al*, *J. Carbohydr. Chem.*, 1992, 11, 665 (*synth, cmr, pmr*)

α -D-Rhamnopyranosyl-(1→3)- α -D-rhamnopyranosyl-(1→2)-D-rhamnose R-10025



$C_{18}H_{32}O_{13}$ M 456.443

Constit. of the repeating unit of the O-specific polysaccharide from *Pseudomonas cepacia*, *P. aeruginosa* and *P. syringae*.

β -Pyranose-form [76440-68-1]

$[\alpha]_D + 22^\circ$ (H_2O).

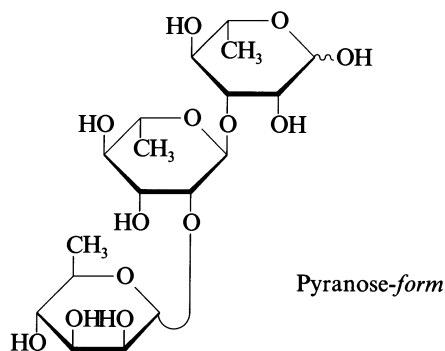
Knirel, Y.A. *et al*, *Bioorg. Khim.*, 1980, 6, 1851.

Shashkov, A.S. *et al*, *Carbohydr. Res.*, 1986, 146, 346.

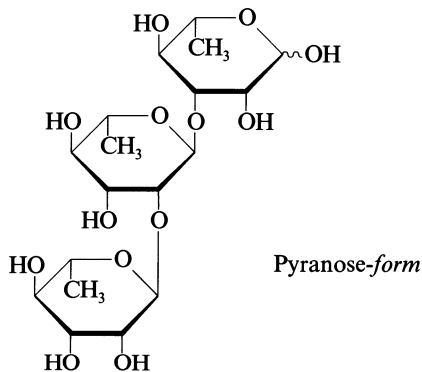
Yokota, S. *et al*, *Eur. J. Biochem.*, 1987, 167, 203.

α -D-Rhamnopyranosyl-(1→2)- α -L-rhamnopyranosyl-(1→3)-L-rhamnose
[89748-04-9]

R-10026

 $C_{18}H_{32}O_{13}$ M 456.443Used to generate monoclonal antibodies toward the antigenic determinates of the *Shigella flexneri* variants X and Y. Mp 110-112°. $[\alpha]_D^{18} +2.8^\circ$ (c, 0.85 in MeOH).Jaworska, A. *et al*, *Carbohydr. Res.*, 1984, **126**, 205 (synth, pmr, cmr)Carlin, N.I.A. *et al*, *J. Immunol.*, 1986, **137**, 2361. **α -L-Rhamnopyranosyl-(1→2)- α -L-rhamnopyranosyl-(1→3)-L-rhamnose**
[89734-07-6]

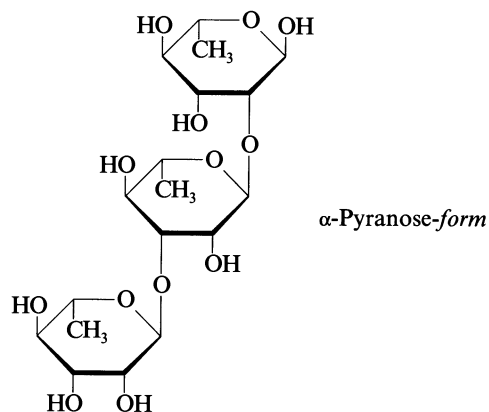
R-10027

 $C_{18}H_{32}O_{13}$ M 456.443Constit. of the repeating unit of the O-antigen in *Shigella flexneri* and in the surface layer glycoprotein of *Bacillus stearothermophilus*. Amorph. solid. $[\alpha]_D^{18} -40.9^\circ$ (c, 0.5 in MeOH).

[103951-26-4, 105239-66-5]

Kenne, L. *et al*, *Eur. J. Biochem.*, 1976, **64**, 491 (occur)Jaworska, A. *et al*, *Carbohydr. Res.*, 1984, **126**, 205 (synth, pmr, cmr)Christian, R. *et al*, *Carbohydr. Res.*, 1986, **126**, 265 (occur) **α -L-Rhamnopyranosyl-(1→3)- α -L-rhamnopyranosyl-(1→2)-L-rhamnose**

R-10028

 $C_{18}H_{32}O_{13}$ M 456.443Constit. of the repeating unit of the capsular antigen of *Klebsiella* serotype K9. Amorph. $[\alpha]_D -52^\circ$ (c, 0.5 in H_2O). **α -Pyranose-form** [73223-31-1]

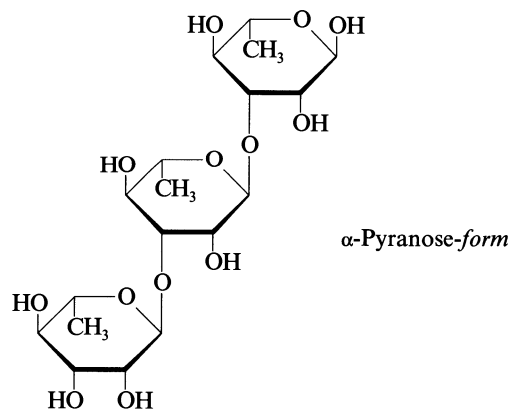
Benzyl glycoside, 3,4-dibenzyl:

 $C_{39}H_{50}O_{13}$ M 726.816Foam. $[\alpha]_D -66^\circ$ (c, 1.0 in MeOH).

Benzyl glycoside, 3,4-dibenzyl, penta-Ac:

 $C_{49}H_{60}O_{18}$ M 937.002 $[\alpha]_D -42^\circ$ (c, 0.9 in $CHCl_3$).Lindberg, B. *et al*, *Carbohydr. Res.*, 1972, **25**, 49.Pozsgay, V. *et al*, *J. Chem. Soc., Chem. Commun.*, 1979, 828 (cmr)Pozsgay, V. *et al*, *Carbohydr. Res.*, 1981, **90**, 215 (synth, pmr, cmr) **α -L-Rhamnopyranosyl-(1→3)- α -L-rhamnopyranosyl-(1→3)-L-rhamnose**

R-10029

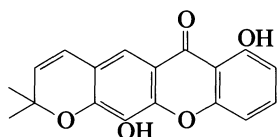
 $C_{18}H_{32}O_{13}$ M 456.443Constit. of the repeating unit of the type specific antigen of *Streptococcus pneumoniae* type 2 and the repeating unit of the capsular antigen of *Klebsiella* serotype K36. Amorph. $[\alpha]_D -48^\circ$ (c, 0.4 in H_2O). **α -Pyranose-form** [78161-41-8]

Benzyl glycoside, 2,4-dibenzyl, penta-Ac:

 $C_{49}H_{60}O_{18}$ M 937.002Syrup. $[\alpha]_D -37^\circ$ (c, 0.8 in $CHCl_3$).Kenne, L. *et al*, *Carbohydr. Res.*, 1975, **40**, 69 (occur)Pozsgay, V. *et al*, *Carbohydr. Res.*, 1981, **90**, 215 (synth, pmr, cmr, occur)Arsenault, T.L. *et al*, *Can. J. Chem.*, 1991, **69**, 1273.

Rheediachromenoxanthone

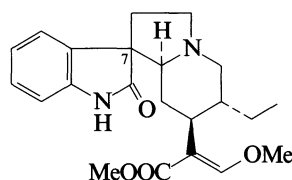
[82667-93-4]

C₁₈H₁₄O₅ M 310.306Constit. of *Rheedia gardneriana*. Cryst. (Et₂O/hexane). Mp 223-224°.Delle Monache, G. et al, *J. Nat. Prod. (Lloydia)*, 1983, **46**, 655 (isol, pmr)**R-10030**

Phillipson, J.D. et al, *Phytochemistry*, 1974, **13**, 2621 (oxides)
 Ban, Y. et al, *Chem. Pharm. Bull.*, 1975, **23**, 2605 (synth, ir, ms)
 Brown, R.T. et al, *Tetrahedron Lett.*, 1976, 1401 (synth)
 Sharma, P. et al, *Phytochemistry*, 1988, **27**, 3649 (17-Demethoxyisorhynchophylline)
 Liu, H.-M. et al, *Phytochemistry*, 1993, **33**, 707 (Rhynchophyllin acid, Isorhynchophyllin acid)

Rhynchophylline

Updated Entry replacing R-00244

Mitrinermine

Absolute configuration

C₂₂H₂₈N₂O₄ M 384.474

(-)-form [76-66-4]

Alkaloid from *Uncaria rhynchophylla*, some other *U.* spp., several *Mitragyna* spp. and *Cephalanthus occidentalis* (Naucleaceae). Antipyretic, hypotensive agent. Mp 214° (208-209°). [α]_D -24° (-15°) (CHCl₃).

N-Oxide: **Rhynchophylline N-oxide**C₂₂H₂₈N₂O₅ M 400.474Alkaloid from *M. inermis* and *C. occidentalis* (Naucleaceae). Noncryst.7-Epimer: [6859-01-4]. **Isorhynchophylline**C₂₂H₂₈N₂O₄ M 384.474Alkaloid from *U.* and *M.* spp. (Naucleaceae). Mp 144°. [α]_D +13° (+8.3°) (CHCl₃).7-Epimer, N-oxide: **Isorhynchophylline N-oxide**C₂₂H₂₈N₂O₅ M 400.474Alkaloid from *M. inermis*, *M. rotundifolia* and *C. occidentalis* (Naucleaceae). Mp 242-243°. *N*-oxide config. anti.7,20-Diepimer: see *Corynoxine*, C-019077-Epimer, demethoxy: **17-Demethoxyisorhynchophylline**C₂₁H₂₆N₂O₃ M 354.448Alkaloid from the whole plant of *Amsonia brevifolia* (Apocynaceae). Cytotoxic. Amorph. gum. [α]_D 0° (c, 0.2 in MeOH).Parent acid: **Rhynchophyllin acid**C₂₁H₂₆N₂O₄ M 370.447Alkaloid from stems of *U. sinensis* (Naucleaceae). Amorph. powder.Parent acid, 7-epimer: **Isorhynchophyllin acid**C₂₁H₂₆N₂O₄ M 370.447Alkaloid from stems of *U. sinensis* (Naucleaceae). Mp 175-176.5°. [α]_D +5.2° (c, 0.08 in MeOH).

(±)-form

Synthetic. Mp 197-199°.

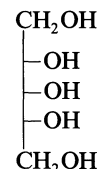
7-Epimer: Mp 225-227°.

Seaton, J.C. et al, *Can. J. Chem.*, 1957, **35**, 1102; 1960, **38**, 1035 (isol, ir, uv, struct)Finch, N. et al, *J. Am. Chem. Soc.*, 1962, **84**, 3871 (config)Gilbert, B. et al, *J. Am. Chem. Soc.*, 1963, **85**, 1523 (ms)Pousset, J.-L. et al, *Bull. Soc. Chim. Fr.*, 1967, 2766 (pmr, config)Shellard, E.J. et al, *Phytochemistry*, 1971, **10**, 2505 (oxides)**R-10031****Ribitol, 9CI, 8CI****R-10032**

Updated Entry replacing R-00251

Adonitol

[488-81-3]

C₅H₁₂O₅ M 152.147

Occurs free in the plants *Adonis vernalis* and *Bupleurum falcatum* and in bound form in bacterial cell wall teichoic acids and in Riboflavin (vitamin B₂). Mp 102°. Opt. inactive (*meso*-).

▷ VJ0800000.

2,4-O-Benzylidene: [20638-70-4].

C₁₂H₁₆O₅ M 240.255

Mp 133-135°.

2,4-O-Benzylidene, 1,5-dibenzoyl: [31569-21-8].

C₂₆H₂₄O₇ M 448.471

Mp 137-138°.

2,4-O-Benzylidene, 1,5-dibenzoyl, 3-mesyl: [31569-30-9].

Mp 135-137°.

2,3:4,5-Di-O-benzylidene:

C₁₉H₂₀O₅ M 328.364Mp 174-175°. [α]_D²⁷ -35.7° (c, 4.0 in CHCl₃).

2,3:4,5-Di-O-benzylidene, 1-Ac:

C₂₁H₂₂O₆ M 370.401Mp 143-144°. [α]_D²⁰ -57° (c, 1.1 in CHCl₃).

2,3-O-Isopropylidene, 1,5-dibenzoyl, 4-diphenylphosphate:

Mp 83°. [α]_D¹⁸ -19.5° (c, 4.0 in CHCl₃).

2,4-O-Methylene, 1,5-dibenzoyl: [31569-33-2].

C₂₀H₂₀O₇ M 372.374

Mp 164-166°.

2,4-O-Methylene, 1,5-dibenzoyl, 3-mesyl: [31569-37-6].

Mp 180-182°.

2,3,4-Tribenzoyl:

C₂₆H₂₄O₈ M 464.471

Mp 102°.

2,3,4-Tribenzoyl, 1,5-ditryl: Mp 161°.

2,3,4-Tribenzoyl, 1,5-diphosphate:

C₂₆H₂₆O₁₄P₂ M 624.430

Mp 166-168°.

2,3,4-Tribenzoyl, 1,5-ditosyl: Mp 161-162°.

2,3,4-Tribenzoyl, 1,5-ditryl: Mp 106°.

3,4-Di-O-α-D-glucopyranoside:

C₁₇H₃₂O₁₅ M 476.431Isol. from hydrolyate of *Lactobacillus arabinosaceus* teichoic acid. Mp 118-121°. [α]_D +137° (H₂O).Pentakis(4-hydroxybenzoyl): [112727-22-7]. **Buccinulin.***Kelletinin A*C₄₀H₃₂O₁₅ M 752.684Metab. of the marine mollusc *Buccinum corneum*.

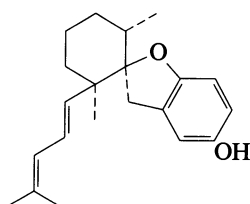
Exhibits antibacterial props.

Raphael, R.A., *J. Chem. Soc.*, 1949, 844 (synth)Archibald, A.R. et al, *Biochem. J.*, 1961, **81**, 124 (diglucoside)Potgieter, D.J.J. et al, *J. Org. Chem.*, 1961, **26**, 3934.Applegath, D.A. et al, *J. Chem. Soc.*, 1965, 1213.

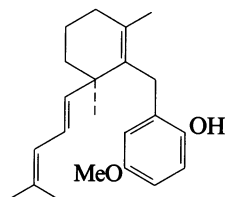
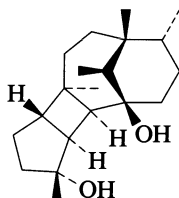
- Kim, H.S. *et al*, *Acta Crystallogr., Sect. B*, 1969, **25**, 2223 (*cryst struct*)
 Sugihara, J.M. *et al*, *J. Org. Chem.*, 1971, **36**, 3407.
 Angyal, S.J. *et al*, *Carbohydr. Res.*, 1972, **23**, 121 (*pmr*)
 Harness, J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1972, 38.
 Brimacombe, J.S. *et al*, *The Carbohydrates*, 1972, **1A**, 479 (*rev*)
 Colson, P. *et al*, *Can. J. Chem.*, 1975, **53**, 1030 (*cmr*)
 Minami, N. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 1109 (*total synth*)
 Holland, D. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1983, 1553 (*synth*)
 Cimino, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1987, **50**, 1171 (*Buccinulin*)
 Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, RIF000.

Riccardiphenol A**R-10033**

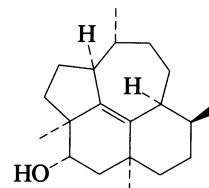
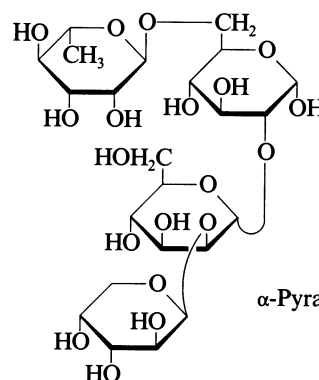
[148225-32-5]

 $C_{21}H_{28}O_2$ M 312.451Constit. of *Riccardia crassa*. Oil. $[\alpha]_D +143^\circ$ (c, 0.51 in $CHCl_3$).Toyota, M. *et al*, *Phytochemistry*, 1993, **32**, 137 (*isol*, *pmr*, *cmr*)**Riccardiphenol B****R-10034**

[148225-33-6]

 $C_{22}H_{30}O_2$ M 326.478Constit. of *Riccardia crassa*. Oil. $[\alpha]_D -72^\circ$ (c, 0.73 in $CHCl_3$).Toyota, M. *et al*, *Phytochemistry*, 1993, **32**, 137 (*isol*, *pmr*, *cmr*)**Rigidol****R-10035** $C_{20}H_{34}O_2$ M 306.487Constit. of *Sapium rigidifolium*.Siems, K. *et al*, *Phytochemistry*, 1993, **33**, 1465 (*isol*, *pmr*, *cmr*)**15-Ripperten-3-ol****Rippertenol****R-10036**

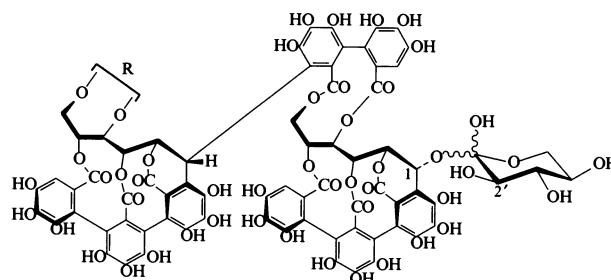
[76649-58-6]

 $C_{20}H_{32}O$ M 288.472Constit. of defence secretion of *Nasutitermes rippertii* and *N. ephratae*. Oily solid.Prestwich, G.D. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 6825 (*isol*, *pmr*, *cmr*, *cryst struct*)**Ristotetrose****R-10037** β -D-Arabinopyranosyl-(1→2)- α -D-mannopyranosyl-(1→2)-[α -L-rhamnopyranosyl-(1→6)]-D-glucose α -Pyranose-form $C_{23}H_{40}O_{19}$ M 620.558

Obt. from the acid catalysed acetolysis of Ristomycin A, R-00299.

Neszmelyi, A. *et al*, *J. Antibiot.*, 1978, **31**, 974 (*cmr*)Sztaricskai, F. *et al*, *J. Am. Chem. Soc.*, 1980, **102**, 7093 (*isol*, *pmr*)**Roburin B****R-10038**

[137370-65-1]

R = Hexahydroxydiphenyl,
 $C_{14}H_8O_8$ $C_{87}H_{58}O_{55}$ M 1983.382Tautomeric with the furanoid sugar form. Isol. from *Quercus robor*.2'-Epimer: [137490-45-0]. **Roburin C** $C_{87}H_{58}O_{55}$ M 1983.382Ellagitannin from *Q. robor*.O-Deglycosyl: [132864-75-6]. **Roburin A**

$C_{82}H_{50}O_{51}$ M 1851.266

Ellagitannin from *Q. robor.*

O-Deglycosyl, 1-epimer: [136199-93-4]. **Roburin D**

$C_{82}H_{50}O_{51}$ M 1851.266

Ellagitannin from *Q. robor.*

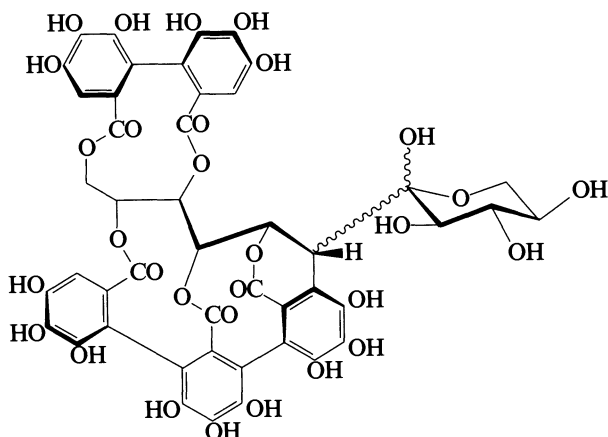
Herve du Penhoat, C.L.M. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1991, 1653 (*struct, pmr, cmr*)

Herve du Penhoat, C.L.M. *et al*, *Phytochemistry*, 1991, **30**, 329 (*struct, cmr, pmr*)

Roburin E

R-10039

[137343-79-4]



$C_{46}H_{34}O_{30}$ M 1066.757

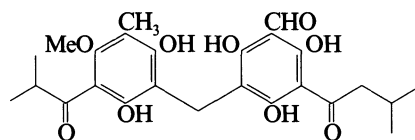
Sugar residue in equilib. with the furanose form. Isol. from *Quercus robor.*

Herve du Penhoat, C.L.M. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1991, 1653 (*struct, pmr, cmr*)

Robustaol A

R-10040

[78411-76-4]



$C_{25}H_{30}O_9$ M 474.507

Constit. of *Eucalyptus robusta*.

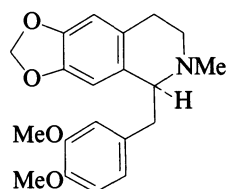
Qin, G.-W. *et al*, *CA*, 1981, **95**, 61678 (*isol, struct, synth*)

Romneine

R-10041

Updated Entry replacing R-00338

5-[(3,4-Dimethoxyphenyl)methyl]-5,6,7,8-tetrahydro-6-methyl-1,3-dioxolo[4,5-g]isoquinoline, 9CI. 1-(3,4-Dimethoxybenzyl)-1,2,3,4-tetrahydro-6,7-methylenedioxy-2-methylisoquinoline



(S)-form

$C_{20}H_{23}NO_4$ M 341.406

(R)-form

Alkaloid from the bark of *Laurelia novae-zelandiae* (Atherospermataceae). Amorph. Has the same registry number as the (S)-form.

B,HBr: Mp 223-225°. $[\alpha]_D^{15}$ -75° (c, 0.2 in EtOH).

(S)-form [5544-49-0]

Alkaloid from the roots of *Romneya coulteri* var. *trichocalyx* (Papaveraceae). Oil. $[\alpha]_D^{27}$ +37° (c, 0.11 in EtOH).

B,HBr: Mp 226-227°. $[\alpha]_D^{28}$ +40° (c, 0.26 in EtOH). The stereochemical purity of this sample has been questioned.

N-Me: [51550-01-7]. **Escholinine**

$C_{21}H_{26}NO_4^{\oplus}$ M 356.441 (ion)

Quaternary alkaloid from *Eschscholtzia californica* (Papaveraceae).

N-Me, iodide:

$C_{21}H_{26}INO_4$ M 483.345

Cryst. (MeOH). Mp 197-198°.

N-Me, perchlorate:

$C_{21}H_{26}ClNO_8$ M 455.891

Prisms (MeOH). Mp 209-210°. $[\alpha]_D^{25}$ +74° (c, 0.31 in MeOH).

(±)-form [5544-50-3]

Alkaloid from leaves of *Cryptocarya chinensis* (Lauraceae). Pale yellow oil or amorph. solid.

B,HBr: Mp 194-196°.

Stermitz, F.R. *et al*, *Tetrahedron*, 1966, **22**, 1095 (*isol, uv, ir, pmr, ms, struct, synth*)

Stermitz, F.R. *et al*, *Tetrahedron Lett.*, 1967, 1601 (*abs config*)

Slavik, J. *et al*, *Collect. Czech. Chem. Commun.*, 1970, **35**, 2597; 1973, **38**, 3514 (*Escholinine*)

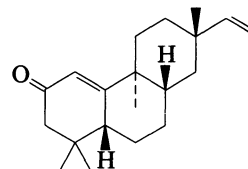
Kametani, T. *et al*, *Chem. Pharm. Bull.*, 1974, **22**, 966 (*synth, pmr*)

Urzúa, A. *et al*, *Phytochemistry*, 1982, **21**, 773 (*isol, pmr*)

Lee, S.-S. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 227 (*isol, uv, ir, pmr, cmr, ms*)

1(10),15-Rosadien-2-one

R-10042



$C_{20}H_{30}O$ M 286.456

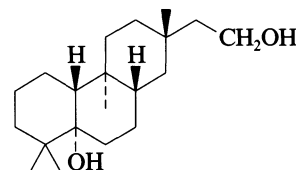
(ent-5α)-form

Constit. of *Erythroxyllum zambesiacum*. Gum. $[\alpha]_D$ +23° (CH_2Cl_2). Error in struct. diag. in ref.

Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 953 (*isol, pmr, cmr*)

5,16-Rosanediol

R-10043



$C_{20}H_{36}O_2$ M 308.503

(ent-5β)-form [150036-55-8]

Constit. of *Erythroxyllum pictum*. Needles (hexane). Mp 160-161°. $[\alpha]_D$ +25° (CH_2Cl_2).

Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 945 (*isol, pmr, cmr*)

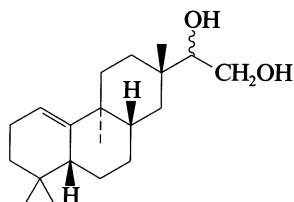
1(10)-Rosene-15,16-diol

R-10044

Roshenin A

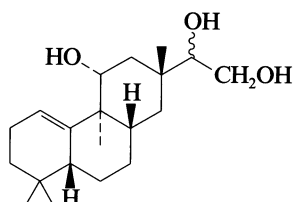
[145851-29-2]

R-10047

 $C_{20}H_{34}O_2$ M 306.487*(ent-5 α ,15 ξ)-form* [150036-38-7]Constit. of *Erythroxylon zambesiacum*. Needles (hexane).Mp 123-135°. $[\alpha]_D^{20}$ -2° (CH_2Cl_2).Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 953 (*isol*, *pmr*)

1(10)-Rosene-11,15,16-triol

R-10045

 $C_{20}H_{34}O_3$ M 322.487*(ent-5 α ,11 β ,15 ξ)-form*

11-Ac: [150036-39-8]. 11-Acetoxy-1(10)-rosene-15,16-diol

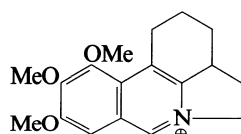
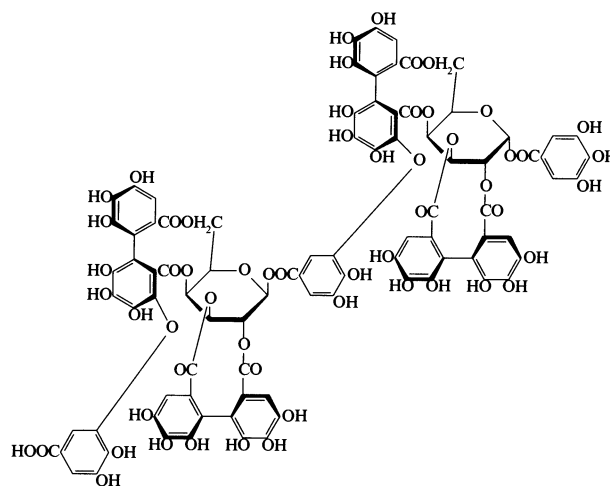
Constit. of *Erythroxylon zambesiacum*. Gum. $[\alpha]_D^{20}$ $+10^\circ$ (CH_2Cl_2).Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 953 (*isol*, *pmr*, *cmr*)

Rosierine

R-10046

1,2,3,3a,4,5-Hexahydro-9,10,11-trimethoxyppyrrolo[3,2,1-de]phenanthridinium, 9CI

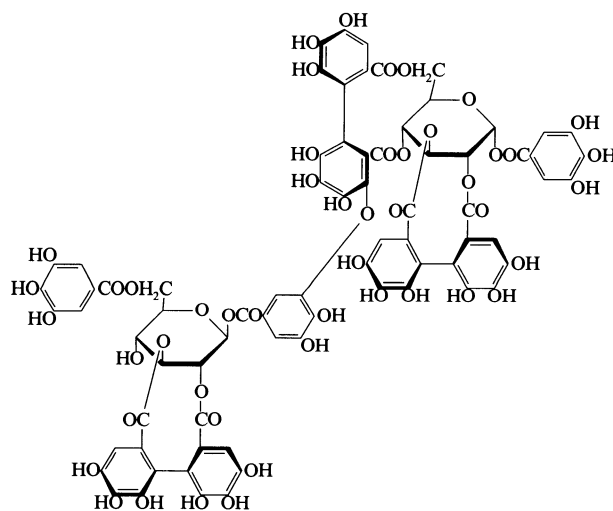
[139955-89-8]

 $C_{18}H_{22}NO_3^{\oplus}$ M 300.377 (ion)Alkaloid from aerial parts and bulbs of *Narcissus pallidulus* (Amaryllidaceae). Counterion not specified.Bastida, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 134 (*isol*, *pmr*, *cmr*, *ms*, *struct*) $C_{89}H_{58}O_{57}$ M 2039.403Ellagitannin from the root of *Rosa henryi*. Off-white amorph. powder + 14H₂O. $[\alpha]_D^{20}$ -39° (c, 1.0 in MeOH).Yoshida, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 1997 (*uv*, *pmr*, *cmr*)

Roshenin D

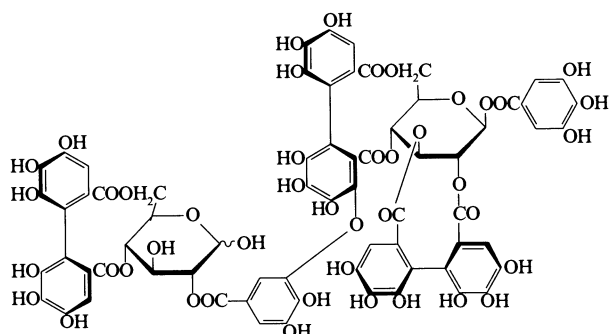
R-10048

[145274-73-3]

 $C_{75}H_{52}O_{48}$ M 1569.101Constit. of *Rosa henryi*. Off-white amorph. powder + 10H₂O. $[\alpha]_D^{20}$ $+12^\circ$ (c, 1.0 in MeOH).Yoshida, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 1997 (*uv*, *pmr*, *cmr*)

Roshenin E

[145274-72-2]

 $C_{68}H_{48}O_{44}$ M 1569.101

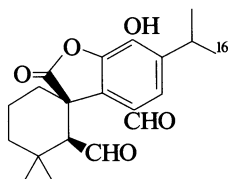
Exists as an equilibrated mixt. of α - and β -anomers. Isol. from the root of *Rosa henryi*. Off-white amorph. powder + $10H_2O$. $[\alpha]_D^{20} -30^\circ$ (c, 1.0 in MeOH).

Yoshida, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 1997 (*uv*, *pmr*, *cmr*)

Rosmadial

Updated Entry replacing R-00382

[85514-31-4]

 $C_{20}H_{24}O_5$ M 344.407

Constit. of *Rosmarinus officinalis*. Cryst. (C_6H_6). Mp 225° . $[\alpha]_D^{24} -216.8^\circ$ (c, 0.54 in EtOH).

16-Hydroxy: 16-Hydroxyrosmadial $C_{20}H_{24}O_6$ M 360.406

Constit. of *Salvia mellifera*. Amorph. solid.

Nakatani, N. *et al*, *Agric. Biol. Chem.*, 1983, **47**, 353.

Luis, J.G. *et al*, *Phytochemistry*, 1993, **33**, 635 (*isol*, *pmr*, *cmr*)

Rotenolone B**R-10051**

Struct. unknown. Constit. of the leaves and flowers of *Tephrosia leiocarpa*.

Gomez-Garibay, F. *et al*, *Phytochemistry*, 1991, **30**, 3832.

Rotenonenol**R-10052**

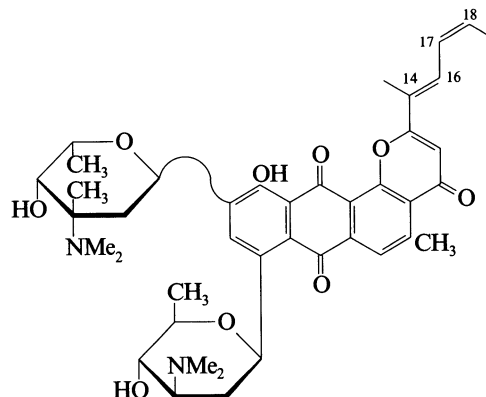
Struct. unknown. Constit. of *Lonchocarpus nicou* roots. No details or MF.

Kaouadji, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1986, **49**, 281.

Rubiflavin C1

Updated Entry replacing R-00428

[111058-14-1]

 $C_{41}H_{50}N_2O_9$ M 714.854

Anthraquinone-type antibiotic. Prod. by *Streptomyces griseus*. Orange solid. Similar to Pluramycin A, P-01529.

17E-Isomer: [110954-32-0]. Rubiflavin C2 $C_{41}H_{50}N_2O_9$ M 714.854

From *S. griseus*. Orange solid.

17,18-Dihydro: [110954-33-1]. Rubiflavin D $C_{41}H_{52}N_2O_9$ M 716.870

Prod. by *S. griseus*. Orange solid.

14,16-Dihydro, 14-hydroxy: [104855-82-5]. Rubiflavin E. SS

21020B. Antibiotic SS 21020B

 $C_{41}H_{52}N_2O_{10}$ M 732.869

Prod. by *S. griseus* and *S. sp.* 21020. Orange solid.

Identity of SS 21020B and Rubiflavin E not definitely establ.

Bisdeglycosyl: [110954-31-9]. Rubiflavinone C1 $C_{24}H_{18}O_5$ M 386.403

From *S. sp.* Yellow solid. Possible artifact.

Bisdeglycosyl, 17E-isomer: [110954-30-8]. Rubiflavinone C2 $C_{24}H_{18}O_5$ M 386.403

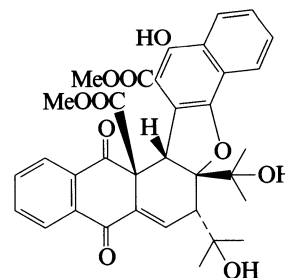
From *S. sp.* Yellow solid. Possible artifact.

Japan. Pat., 86 78 395, (1986); *CA*, **106**, 17024 (*deriv*)

Nadig, H. *et al*, *Helv. Chim. Acta*, 1987, **70**, 1217 (*struct*, *bibl*)

Rubioncolin A**R-10054**

[132242-51-4]

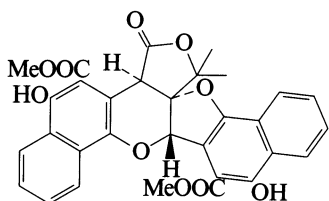
 $C_{34}H_{32}O_{10}$ M 600.621

Constit. of the roots of *Rubia oncotricha*. Yellowish needles. Mp $235-236^\circ$.

Qiao, Y.-F. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 2896 (*isol*, *pmr*, *cmr*, *cryst struct*)

Rubioncolin B

[132268-06-5]



$C_{31}H_{24}O_{10}$ M 556.525

Constit. of the roots of *Rubia oncotricha*. Red-yellowish prisms. Mp 235-236°.

Qiao, Y.-F. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 2896 (*isol*, *pmr*, *cmr*, *cryst struct*)

R-10055

positive bacteria and *H. influenzae*. Amorph. solid. $[\alpha]_D^{25} + 571^\circ$ (c, 0.0205 in Me_2CO). Artifact. Photooxidation prod. of Protorubradirin which is now regarded as the true secondary metab.

Deoxy: Protorubradirin

$C_{48}H_{46}N_4O_{19}$ M 982.907

Prod. by *S. achromogenes* var. *rubidus*. Amorph. red solid. $[\alpha]_D^{25} + 921^\circ$ (c, 0.027 in Me_2CO). Conts. an NO group in place of NO_2 . Now regarded as the true metab.

Bhuyan, B.K. *et al*, *Antimicrob. Agents Chemother.*, 1964, **91**, 97 (*isol*)

U.S. Pat., 4 032 631, (1977); *CA*, **87**, 165998 (*isol*)

Reusser, F., *J. Antibiot.*, 1979, **32**, 1186 (*props*)

Hoeksema, H. *et al*, *J. Am. Chem. Soc.*, 1982, **104**, 5173 (*struct*, *pmr*, *cmr*)

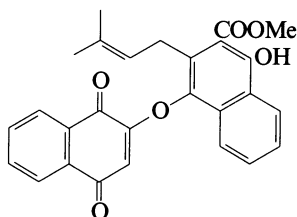
Reusser, F., *Antibiotics (N.Y.)*, 1983, **6**, 187 (*rev*)

Brimacombe, J.S. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1985, 1067, 1073 (*synth*, *struct*)

Bannister, B. *et al*, *J. Antibiot.*, 1992, **45**, 1313 (*Protorubradirin*)

Rubioncolin C

[132242-52-5]



$C_{27}H_{22}O_6$ M 442.467

Constit. of the roots of *Rubia oncotricha*. Pale yellowish prisms. Mp 171-172°.

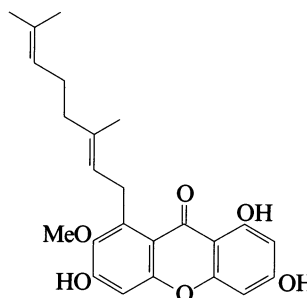
Qiao, Y.-F. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 2896 (*isol*, *pmr*, *cmr*)

R-10056

Rubraxanthone

1-Geranyl-3,6,8-trihydroxy-2-methoxyxanthone

[65411-01-0]



R-10058

Rubradirin

Updated Entry replacing R-00436

Antibiotic 42405

[11031-38-2]

R-10057

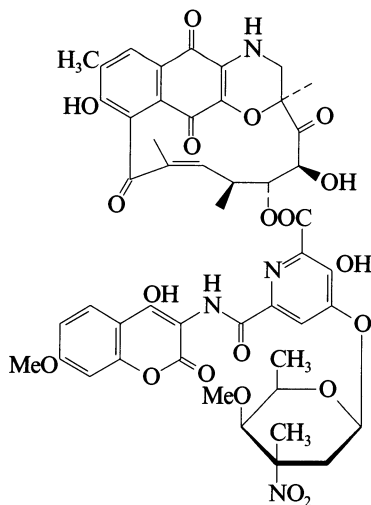
$C_{24}H_{26}O_6$ M 410.466

Constit. of *Garcinia parvifolia*, *G. pyrifera* and *G. cowa*.

Yellow prisms (EtOAc/pet. ether). Mp 210°.

Lee, H.-H. *et al*, *Phytochemistry*, 1977, **16**, 2038 (*isol*)

Ampofo, S.A. *et al*, *Phytochemistry*, 1986, **25**, 2351 (*isol*, *pmr*, *cmr*)

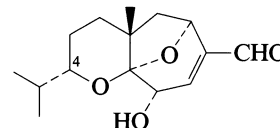


$C_{48}H_{46}N_4O_{20}$ M 998.906

Isol. from *Streptomyces achromogenes rubradiris* and *Micromonospora saitamica*. Inhibits protein synthesis in gram-positive bacteria. Highly active against gram-

Rugosal D

[147029-00-3]



R-10059

$C_{15}H_{22}O_4$ M 266.336

Constit. of *Rosa rugosa*. Syrup.

4-Epimer: [147126-85-0]. **Epirugosal D**

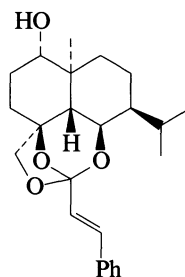
$C_{15}H_{22}O_4$ M 266.336

Constit. of *R. rugosa*. Syrup.

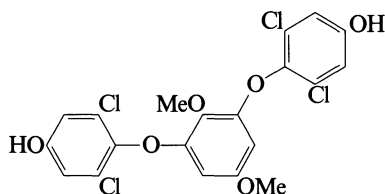
Hashidoko, Y. *et al*, *Phytochemistry*, 1993, **32**, 387 (*isol*, *pmr*, *cmr*)

Rupestrinol orthocinnamate

[64306-03-2]

 $C_{24}H_{32}O_4$ M 384.514Constit. of *Verbesina rupestris*. Gum.Box, V.G.S. *et al*, *Phytochemistry*, 1977, **16**, 987 (*isol*, *pmr*)**R-10060***1',2'-Epoxide, 3'-hydroxy*: [80565-10-2]. **20-****Hydroxyrutacridone epoxide** $C_{19}H_{17}NO_5$ M 339.347Alkaloid from the roots and callus tissue cultures of *R. graveolens* (Rutaceae). 20-Posn. in the authors' numbering scheme called here 3'.Reisch, J. *et al*, *Acta Pharm. Suec.*, 1967, **4**, 265; *CA*, **68**, 39861 (*isol*, *ir*, *pmr*)Reisch, J. *et al*, *Z. Naturforsch.*, **B**, 1978, **33**, 957 (*rev*, *pmr*, *struct*)Bergenthal, D., *Phytochemistry*, 1979, **18**, 161 (*cmr*)Nahrstedt, A. *et al*, *Z. Naturforsch.*, **C**, 1981, **36**, 200 (*Rutacridone epoxide*)Zschunke, A. *et al*, *J. Chem. Soc., Chem. Commun.*, 1982, 1263 (*biosynth*)Eilert, U. *et al*, *Z. Naturforsch.*, **C**, 1982, **37**, 132 (*20-Hydroxyrutacridone epoxide*)Nahrstedt, A. *et al*, *Planta Med.*, 1985, 517 (*1-Hydroxyrutacridone epoxide*)Reisch, J. *et al*, *Justus Liebig's Ann. Chem.*, 1991, 299 (*Gravacridonol*)**Russuphelin A**

[141794-49-2]

 $C_{20}H_{14}Cl_4O_6$ M 492.138Constit. of the mushroom *Russula subnigricans*. Cytotoxic. Needles ($CHCl_3$ /MeOH). Mp 293-294°.*Di-Ac*: Needles ($CHCl_3$ /hexane). Mp 172-174°.Takahashi, A. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 3185 (*isol*, *pmr*, *cmr*, *synth*, *struct*)**R-10061****Ruzorine****R-10063**

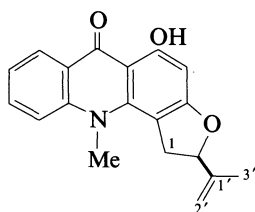
Updated Entry replacing R-00497

 $C_{18}H_{27}NO_8$ M 385.413Pyrrolizidine alkaloid. Possibly identical with Bisline, B-00564. Struct. unknown. Alkaloid from *Senecio ruwenzoriensis* (= *S. othomiformis*) (Compositae). Prisms or needles. V. sol. H_2O . Mp 161-163° (dec. from 134°).*B.HCl*: V. unstable cryst. Mp 148° dec. approx.*Picrate*: Mp 133-137° (dec. from 125°).Sapiro, M.L., *J. Chem. Soc.*, 1953, 1942.Benn, M. *et al*, *Phytochemistry*, 1992, **31**, 3295.**Rutacridone****R-10062**

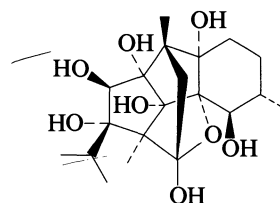
Updated Entry replacing R-00485

1,11-Dihydro-5-hydroxy-11-methyl-2-(1-methylethenyl)furo[2,3-c]acridin-6(2H)-one

[17948-33-3]

 $C_{19}H_{17}NO_3$ M 307.348Alkaloid from *Ruta graveolens* and *R. chalepensis* (Rutaceae). Mp 161-162°. $[\alpha]_D^{21}$ -43°.*1',2'-Epoxide*: [77996-03-3]. **Rutacridone epoxide** $C_{19}H_{17}NO_4$ M 323.348Alkaloid from roots and callus tissue cultures of *R. graveolens* (Rutaceae).*3'-Hydroxy*: [81545-69-9]. **Gravacridonol** $C_{19}H_{17}NO_4$ M 323.348Alkaloid from *R. graveolens* (Rutaceae). Mp 155-156° (153°). C-2 config. not detd.*1',2'-Epoxide, 1-hydroxy*: [101330-59-0]. **1-****Hydroxyrutacridone epoxide** $C_{19}H_{17}NO_5$ M 339.347Alkaloid from the callus tissue of *R. graveolens* (Rutaceae).**Ryanodol****R-10064**

[6688-49-9]

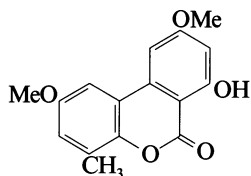
 $C_{20}H_{32}O_8$ M 384.469Constit. of *Persea indica*. Insecticide.González-Coloma, A. *et al*, *J. Chem. Ecol.*, 1990, **16**, 2723.González-Coloma, A. *et al*, *Phytochemistry*, 1993, **34**, 397.

S

Sabilactone

7-Hydroxy-2,9-dimethoxy-4-methyl-6H-dibenzo[b,d]pyran-6-one, 9CI

[126026-42-4]



$C_{16}H_{14}O_5$ M 286.284

Constit. of *Sabina vulgaris*.

Fang, S. *et al*, *Zhiwu Xuebao*, 1989, **31**, 382; *CA*, **112**, 151342 (*isol*)

S-10001

$C_{15}H_{24}O$ M 220.354

Constit. of *Artemisia sieberi*.

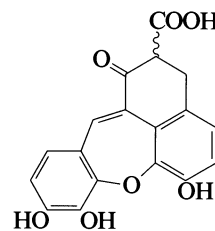
Weyerstahl, P. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 111 (*isol*, *pmr*, *cmr*)

Salvianolic acid G

2,3-Dihydro-6,8,9-trihydroxy-1-oxo-1H-benzo[f]naphth[1,8-bc]oxepin-2-carboxylic acid, 9CI

[136112-79-3]

S-10005



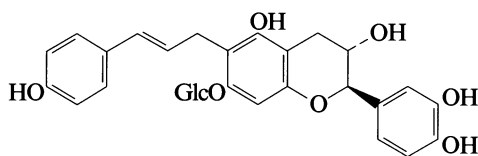
$C_{18}H_{12}O_7$ M 340.289

Constit. of the roots of *Salvia miltiorrhiza*.

Ai, C. *et al*, *Chin. Chem. Lett.*, 1991, **2**, 17 (*isol*, *pmr*)

Sachalide 2

[132185-21-8]



$C_{30}H_{32}O_{12}$ M 584.576

Constit. of the bark of *Salix sachalinensis*. Needles (MeOH). Mp 202-203°.

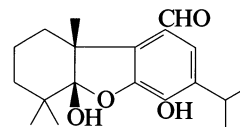
Mizuno, M. *et al*, *Heterocycles*, 1990, **31**, 1409 (*isol*)

S-10002

Salvicanaldehyde

[151368-46-6]

S-10006



$C_{19}H_{26}O_4$ M 318.412

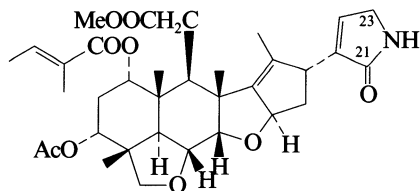
Constit. of *Salvia munzii*. Oil.

Luis, J.G. *et al*, *Tetrahedron*, 1993, **49**, 6277 (*isol*, *pmr*, *cmr*)

Salannolactam 21

[106500-23-6]

S-10003



$C_{34}H_{45}NO_9$ M 611.731

Constit. of the seed kernels of *Azadirachta indica*. Insect antifeedant. Needles (Et₂O). Mp 213° dec. $[\alpha]_D^{20} +121.8^\circ$ (c, 0.1 in CH₂Cl₂).

21-Deoxo, 23-oxo: [106500-24-7]. **Salannolactam 23**

Isol. from Neem oil (*A. indica*). Insect antifeedant. $[\alpha]_D^{20} +126.3^\circ$ (c, 0.1 in CH₂Cl₂).

Kraus, W. *et al*, *Justus Liebigs Ann. Chem.*, 1987, 337 (*isol*, *pmr*, *cmr*, *struct*)

Samanin E

S-10007

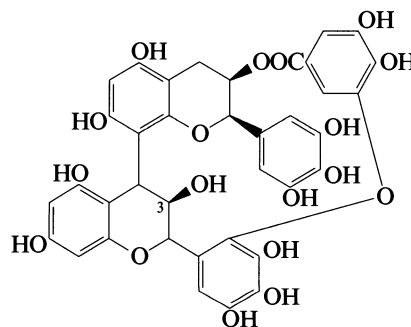
Triterpene saponin. Glycoside of Acacic acid (see 3,16,21-Trihydroxy-12-oleanen-28-oic acid, T-02475). Struct. unknown. Constit. of the bark of *Pithecolobium saman*.

Varshney, I.P. *et al*, *Fitoterapia*, 1985, **56**, 281 (*isol*)

Samarangenin A

[147103-18-2]

S-10008

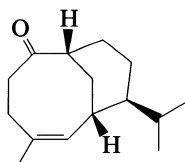


$C_{37}H_{28}O_{18}$ M 760.617

Salsolene ketone

[149090-97-1]

S-10004



Isol. from the leaf of *Syzygium samarangens* and *S. aqueum*. Brown amorph. powder + 2H₂O. $[\alpha]_D^{27}$ –218.4° (c, 0.6 in Me₂CO).

3-O-(3,4,5-Trihydroxybenzoyl): [147103-19-3].

Samarangenin B

C₄₄H₃₂O₂₂ M 912.724

Tannin constit. of *S. samarangens* and *S. aqueum*.

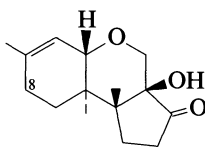
Brown amorph. powder + 3H₂O. $[\alpha]_D^{27}$ –246.9° (c, 0.7 in Me₂CO).

Nonaka, G. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2671 (*isol, struct, pmr, cmr*)

Sambucoin**S-10009**

Updated Entry replacing S-00097

[90044-34-1]



C₁₅H₂₂O₃ M 250.337

Trichothecene antibiotic. Metab. of *Fusarium sambucinum*.

Shows possible cystatic activity. Cryst. (Me₂CO/pet. ether). Mp 205-210°. Related to Trichothecenes.

8 α -Hydroxy: [112468-60-7]. **8 α -Hydroxysambucoin**

C₁₅H₂₂O₄ M 266.336

Metab. of *F. sporotrichioides*. Glass.

8 β -Hydroxy: [112531-13-2]. **8 β -Hydroxysambucoin**

C₁₅H₂₂O₄ M 266.336

Metab. of *F. sporotrichioides*. Glass.

2-Deoxy, 11-epimer, 3 α -hydroxy: **2-Deoxy-11-epi-3 α -hydroxysambucoin**

C₁₅H₂₄O₃ M 252.353

Metab. of *F. sporotrichioides*. Cryst. (MeOH aq.). Mp 177-178°.

2-Deoxy, 11-epimer, 3 α -hydroxy, 12-Ac:

C₁₇H₂₆O₄ M 294.390

Metab. of *F. sporotrichioides*. Oil.

Mohr, P. *et al*, *Helv. Chim. Acta*, 1984, **67**, 406 (*isol, struct*)

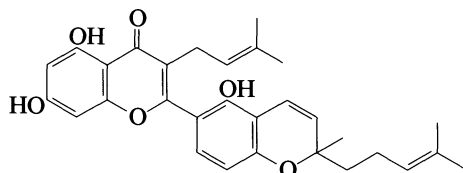
Corley, D.G. *et al*, *J. Nat. Prod. (Lloydia)*, 1987, **50**, 897 (*derivis*)

Fort, D.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1890 (*isol, pmr, cmr, cryst struct*)

Hesketh, A.R. *et al*, *Phytochemistry*, 1993, **32**, 105 (*biosynth*)

Sanggenon J**S-10010**

[86450-78-4]



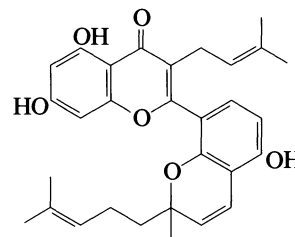
C₃₀H₃₂O₆ M 488.579

Constit. of the root bark of *Morus* sp.

Hano, Y. *et al*, *Heterocycles*, 1983, **20**, 1071 (*isol*)

Sanggenon K**S-10011**

[86450-77-3]



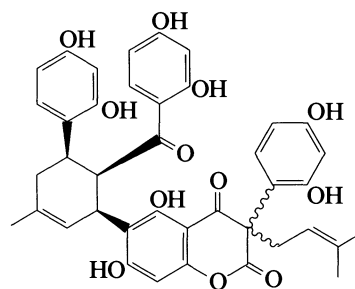
C₃₀H₃₂O₆ M 488.579

Constit. of the root bark of *Morus* sp.

Hano, Y. *et al*, *Heterocycles*, 1983, **20**, 1071 (*isol*)

Sanggenon Q**S-10012**

[120217-42-7]



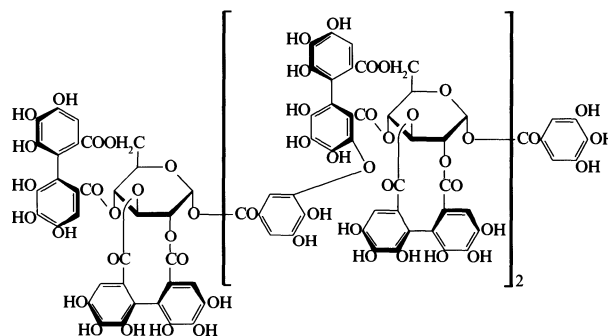
C₄₀H₃₆O₁₂ M 708.717

Constit. of the root bark of *Morus mongolica*. Pale yellow powder. $[\alpha]_D^{22}$ +111° (c, 0.158 in MeOH).

Sun, J.Y. *et al*, *Heterocycles*, 1989, **29**, 195 (*isol*)

Sanguin H11**S-10013**

[96292-46-5]



C₁₆₄H₁₀₆O₁₀₄ M 3740.579

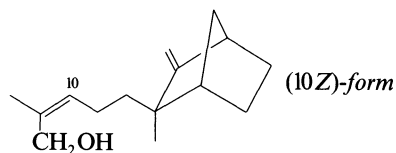
Tetrameric ellagitannin from *Sanguisorba officinalis*.

Amorph. powder.

Tanaka, T. *et al*, *J. Chem. Res., Synop.*, 1985, 176 (*struct*)

 β -Santala-3(15),10-dien-12-ol**S-10014**

Updated Entry replacing S-00142



C₁₅H₂₄O M 220.354

(10Z)-form [77-42-9] β -Santalol

Constit. of sandalwood oil (*Santalum album*). Perfumery ingredient. Oil. Bp₁₇ 177-178°. [α]₅₄₆ –87.1°.

12-Carboxylic acid: [73590-17-7]. β -Santala-3(15),10-dien-12-oic acid. β -Santallic acid

C₁₅H₂₂O₂ M 234.338
Constit. of *S. album* oil. Oil.

(10E)-form

Aldehyde: [59331-82-7]. β -Santal-3(15),10-dien-12-al. β -Santalal

C₁₅H₂₂O M 218.338
Isol. from *S. album* oil.

Demole, E. *et al*, *Helv. Chim. Acta*, 1976, **59**, 737 (aldehyde)
Baumann, M. *et al*, *Justus Liebigs Ann. Chem.*, 1979, 743 (synth)

Brunke, E.-J. *et al*, *Justus Liebigs Ann. Chem.*, 1982, 1105 (abs config)

Monti, H. *et al*, *Tetrahedron Lett.*, 1982, **23**, 5539 (synth)

Solas, D. *et al*, *J. Org. Chem.*, 1983, **48**, 1988 (synth, bibl)

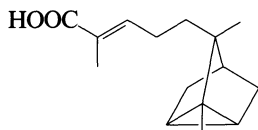
Buchbauer, G. *et al*, *Justus Liebigs Ann. Chem.*, 1990, 119 (β -Santallic acid)

Krotz, A. *et al*, *Tetrahedron: Asymmetry*, 1990, **1**, 537 (synth)

 α -Santal-10-en-12-oic acid

S-10015

Updated Entry replacing S-00148



C₁₅H₂₂O₂ M 234.338

(10E)-form [74642-79-8] α -Santal-12-oic acid

Constit. of *Ayapana amygdalina*. Oil.

10,11-Dihydro: α -Santal-12-oic acid. Dihydro- α -santallic acid

C₁₅H₂₄O₂ M 236.353
Constit. of East Indian sandalwood oil. Oil.

Bohlmann, F. *et al*, *Phytochemistry*, 1979, **18**, 1997.

Nikiforov, A. *et al*, *Justus Liebigs Ann. Chem.*, 1990, 119 (isol, pmr)

Stryphnodendron Sapogenin M

S-10016

Triterpene of unknown struct. Constit. of *Stryphnodendron coriaceum*.

Tursch, B. *et al*, *Bull. Soc. Chim. Belg.*, 1966, **75**, 26.

Astralagus alexandrinus Saponin

S-10017

C₃₅H₅₆O₁₀ M 636.821

Steroidal saponin of the $\Delta^{20(22)}$ -furostene type.

Carbohydrate moiety is glucose. Complete struct. unknown. Isol. from *Astralagus alexandrinus*. Mp 289-292°.

Khafagy, S.M. *et al*, *Egypt. J. Pharm. Sci.*, 1979, **20**, 7; *CA*, **97**, 195829k (isol, ir, uv, pmr)

Oxytropis lanata Saponin

S-10018

Struct. unknown. Constit. of the epigeal parts of *Oxytropis lanata*. Cryst. Mp 224-226°. [α]_D²⁰ +3.3°. Hydrol. prod.

Soyasapogenol B (see 12-Oleanene-3,22,24-triol, O-00376) and various sugars.

Iriste, V. *et al*, *CA*, 1977, **86**, 86103 (isol)

Stryphnodendron Saponin K

S-10019

C₃₀H₄₆O₄ M 470.691

Triterpene of unknown struct. Constit. of *Stryphnodendron coriaceum*. Mp 236-239°.

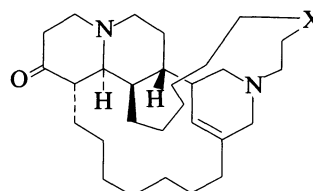
Tursch, B. *et al*, *Bull. Soc. Chim. Belg.*, 1966, **75**, 127.

Sarain 1

S-10020

Updated Entry replacing S-00588

[105418-77-7]



X = –CH=CH–(Z)

C₃₁H₅₀N₂O M 466.749

Alkaloid from the marine sponge *Reniera sarai*. Amorph. powder. [α]_D –47.8° (c, 1.2 in CHCl₃).

Cimino, G. *et al*, *Bull. Soc. Chim. Belg.*, 1986, **95**, 783 (isol, pmr, cmr, struct, biosynth)

Sarain 2

S-10021

Updated Entry replacing S-00589

[105418-80-2]

As Sarain 1, S-10020 with

X = –CH₂–

C₃₀H₅₀N₂O M 454.738

Alkaloid from the marine sponge *Reniera sarai*. Amorph. powder. [α]_D –117° (c, 1.1 in CHCl₃).

Cimino, G. *et al*, *Bull. Soc. Chim. Belg.*, 1986, 783 (isol, pmr, cmr, struct, biosynth)

Sarain 3

S-10022

Updated Entry replacing S-00590

[105305-54-2]

As Sarain 1, S-10020 with

X = –CH=CH–CH₂– (posn. of double bond not certain)

C₃₂H₅₂N₂O M 480.776

Alkaloid from the marine sponge *Reniera sarai*. Amorph. powder. [α]_D –27.4° (c, 0.8 in CHCl₃).

Cimino, G. *et al*, *Bull. Soc. Chim. Belg.*, 1986, **95**, 783 (isol, pmr, cmr, struct, biosynth)

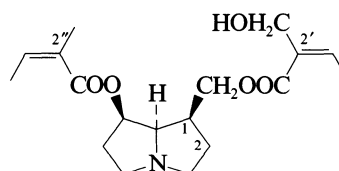
Sarracine

S-10023

Updated Entry replacing S-00228

Mikanoidine

[2492-09-3]



C₁₈H₂₇NO₅ M 337.415

Double ester of platynecine with angelic (see 2-Methyl-2-butenic acid, M-00844) and sarracinic acids (see 2-

Hydroxymethyl-2-butenic acid, H-02327). Alkaloid from *Senecio sarracenioides*, *S. mikanoides*, *S. sylvaticus*, *S. rhombifolius*, *S. franchetii* and *Adenostyles alliariae* (Compositae). Has been used in the USSR for treatment of gastrointestinal hypermotility and peptic ulceration. Cryst. (EtOH). Mp 51-52° (45-46°). $[\alpha]_D^{25} - 129.7^\circ$ (EtOH).

▷ EM9251400.

Tartrate: Mp 177-179°. $[\alpha]_D - 70.05^\circ$ (H₂O).

Monopicate: Cryst. (EtOH). Mp 140-141°.

N-Oxide: [19038-27-8]. **Sarracine N-oxide**

C₁₈H₂₇NO₆ M 353.414

Alkaloid from *S. sarracenioides*, *S. franchetii* and *S. mikanoides* (Compositae). Cryst. + 1H₂O (Me₂CO). Mp 123-124°. $[\alpha]_D - 81.65^\circ$ (H₂O), $[\alpha]_D - 94^\circ$ (EtOH).

Becomes anhydrous at 100°, rehydrates on standing in air.

N-Oxide, picrate: Cryst. (EtOH). Mp 107.5-108.5°.

1,2-Didehydro-7-Angeloyl-9-sarracinoylretronecine

C₁₈H₂₅NO₅ M 335.399

Alkaloid from *S. triangularis* (Compositae). Gum. $[\alpha]_D^{25} + 6.1^\circ$ (c, 1.7 in MeOH).

1,2-Didehydro, picrate: Mp 139-140°.

(2'E,2"E)-isomer: [136173-27-8]. **Neosarracinine**

C₁₈H₂₇NO₅ M 337.415

Alkaloid from *S. serra*, *S. hydrophyllus* and *S. mikanoides* (Compositae).

(2'E,2"Z)-isomer: [136173-25-6]. **Sarracinine**

C₁₈H₂₇NO₅ M 337.415

Alkaloid from *S. serra*, *S. hydrophyllus* and *S. mikanoides* (Compositae).

(2'Z,2"E)-Isomer: [136173-26-7]. **Neosarracinine**

C₁₈H₂₇NO₅ M 337.415

Alkaloid from *S. hydrophyllus* and *S. mikanoides* (Compositae).

Danilova, A.V. et al, *Zh. Obshch. Khim.*, 1953, **23**, 1417, 1597;

CA, **47**, 12759 (*isol, Sarracine, oxide*)

Culvenor, C.C.J. et al, *J. Org. Chem.*, 1961, **26**, 3045 (*isol, pmr, struct*)

Akramov, S.T. et al, *Khim. Prir. Soedin.*, 1967, 351; *Chem. Nat. Compd. (Engl. Transl.)*, 296 (*isol*)

White, E.P. et al, *An. Chim.*, 1972, **68**, 723 (*isol*)

Dauksha, V.E., *Khim. Prir. Soedin.*, 1976, 831; *Chem. Nat. Compd. (Engl. Transl.)*, 753 (*isol*)

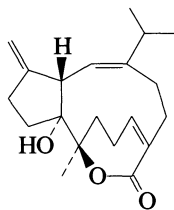
Rüeger, H. et al, *Can. J. Chem.*, 1983, **61**, 2526 (*deriv*)

Stelljes, M.E. et al, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 759 (*Neosarracine, Neosarracinine, Sarracinine*)

Sarsolide A

S-10024

[145757-44-4]



C₂₀H₂₈O₃ M 316.439

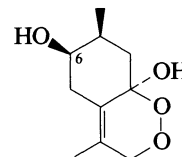
Constit. of *Sarcophyton solidum*. Cryst. Mp 240.2-242.2°.

$[\alpha]_D^{25} + 142.2^\circ$ (c, 0.03 in EtOH).

Zhang, M. et al, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1672 (*isol, pmr, cmr, cryst struct*)

Saturejol

S-10025



C₁₀H₁₆O₄ M 200.234

6-Ac: [128736-01-6]. **Acetylsaturejol**

C₁₂H₁₈O₅ M 242.271

Constit. of *Satureja gilliesii*. Cryst. (CH₂Cl₂/pet. ether). Mp 93-94°.

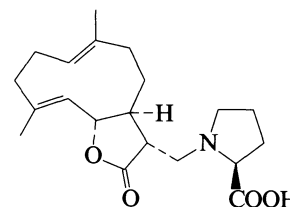
Mariquez, V. et al, *Acta Crystallogr., Sect. C*, 1990, **46**, 802 (*cryst struct*)

Labbé, C. et al, *Phytochemistry*, 1993, **34**, 441 (*isol, pmr, cmr*)

Saussureamine A

S-10026

[148245-82-3]



C₂₀H₂₉NO₄ M 347.453

Constit. of *Saussurea lappa* root. Prisms. Mp 115-117°.

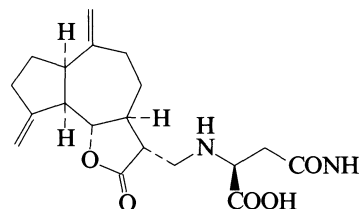
$[\alpha]_D + 36.7^\circ$ (MeOH).

Yoshikawa, M. et al, *Chem. Pharm. Bull.*, 1993, **41**, 214 (*isol, pmr, cmr*)

Saussureamine C

S-10027

[148245-83-4]



C₁₉H₂₆N₂O₅ M 362.425

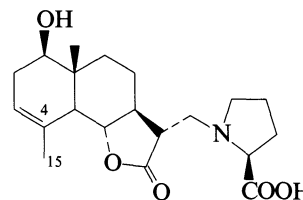
Constit. of *Saussurea lappa* root. Powder. $[\alpha]_D - 17.2^\circ$ (MeOH).

Yoshikawa, M. et al, *Chem. Pharm. Bull.*, 1993, **41**, 214 (*isol, pmr, cmr*)

Saussureamine D

S-10028

[148225-51-8]



C₂₀H₂₉NO₅ M 363.453

Constit. of *Saussurea lappa* root. Needles (MeOH aq.). Mp 235-237°. $[\alpha]_D + 13.3^\circ$ (MeOH).

$\Delta^{4(15)}$ -Isomer: [148225-52-9]. **Saussureamine E**

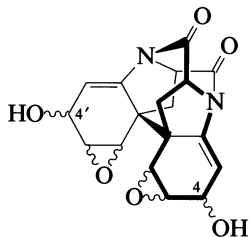
C₂₀H₂₉NO₅ M 363.453

Constit. of *S. lappa* root. Needles (MeOH aq.). Mp 150-153°. $[\alpha]_D^{25} + 33.7^\circ$ (MeOH).

Yoshikawa, M. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 214 (*isol*, *pmr*, *cmr*)

Scabrosine

[67866-98-2]

S-10029

$C_{18}H_{16}N_2O_6$ M 356.334

Di-Ac: [67705-18-4].

$C_{22}H_{20}N_2O_8$ M 440.409

Isol. from lichen *Xanthoparmelia scabrosa*. Mp 262°.

4-Ac, *4'-butanoyl*: [67705-19-5].

$C_{24}H_{24}N_2O_8$ M 468.462

Isol. from *X. scabrosa*. Mp 216.5-217.5°.

Dibutanoyl: [67705-20-8].

$C_{26}H_{28}N_2O_8$ M 496.516

Isol. from *X. scabrosa*. Mp 197-199°.

4-Ac, *4'-hexanoyl*: [67705-21-9].

$C_{26}H_{28}N_2O_8$ M 496.516

Isol. from *X. scabrosa*. Mp 213°.

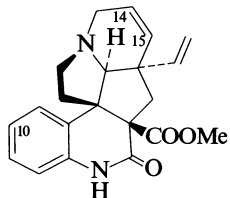
Begg, W.R. *et al*, *Tetrahedron Lett.*, 1978, 1047.

Scandine**S-10030**

Updated Entry replacing S-00270

3-(Methoxycarbonyl)meloscine, *9CI*

[24314-59-8]



Absolute configuration

$C_{21}H_{22}N_2O_3$ M 350.416

Alkaloid from *Melodinus scandens* (Apocynaceae). Prisms (MeOH/EtOH). Mp 188-192°. $[\alpha]_D^{25} + 254^\circ$ (c, 0.2 in EtOH).

10-Hydroxy: [119188-47-5]. *15-Hydroxy-3-(methoxycarbonyl)meloscine*, *9CI*. **10-Hydroxyscandine**

$C_{21}H_{22}N_2O_4$ M 366.416

Alkaloid from the stem bark of *M. tenuicaudatus* (Apocynaceae). Mp 180°. $[\alpha]_D + 228^\circ$ (CHCl₃).

14,15-Epoxyde: **14,15-Epoxyscandine**

$C_{21}H_{22}N_2O_4$ M 366.416

Alkaloid from aerial parts of *M. hemsleyanus* (Apocynaceae). Prisms (Me₂CO). Mp 116-118°.

Bernauer, B.K. *et al*, *Helv. Chim. Acta*, 1969, **52**, 1886 (*uv*, *ms*, *pmr*)

Daudon, M. *et al*, *J. Org. Chem.*, 1975, **40**, 2838 (*cmr*)

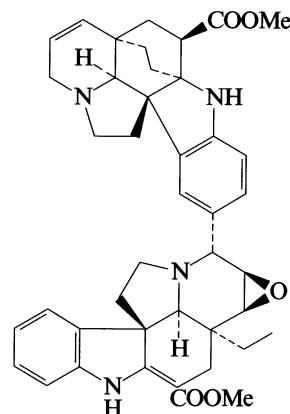
Cannon, J.R. *et al*, *Aust. J. Chem.*, 1982, **35**, 1655 (*cryst struct*, *abs config*)

Zhou, Y.L. *et al*, *Planta Med.*, 1988, **54**, 315 (*10-Hydroxyscandine*)

Guo, L.-W. *et al*, *Phytochemistry*, 1993, **34**, 563 (*14,15-Epoxyscandine*)

Scandomelidine

[139682-13-6]

S-10031

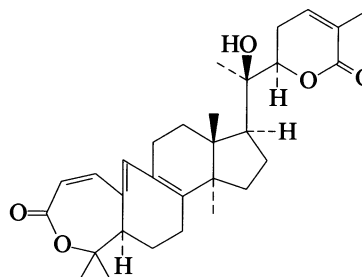
$C_{42}H_{46}N_4O_5$ M 686.849

Alkaloid from stems and leaves of *Melodinus scandens* (Apocynaceae). Amorph. powder. $[\alpha]_D^{20} - 160^\circ$ (c, 1 in CHCl₃).

Mehri, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 241 (*isol*, *uv*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

Schisanlactone C

[92051-27-9]

S-10032

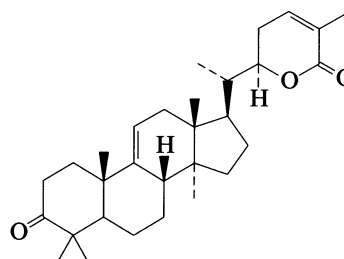
$C_{30}H_{40}O_5$ M 480.643

Constit. of *Schisandra* sp.

Liu, J. *et al*, *Huaxue Xuebao*, 1984, **42**, 464; *CA*, 1984, **101**, 147788a.

Schisanlactone D

[92051-26-8]

S-10033

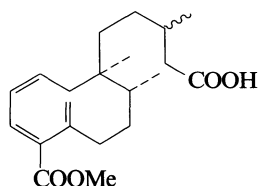
$C_{30}H_{44}O_3$ M 452.676

Constit. of *Schisandra* sp.

Liu, J. *et al*, *Huaxue Xuebao*, 1984, **42**, 464; *CA*, **101**, 147788a.

Schistochilic acid A**S-10034**

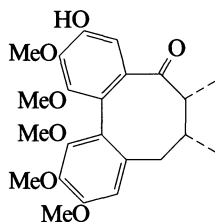
[151200-93-0]

 $C_{21}H_{32}O_4$ M 348.481Constit. of *Schistochila nobilis*. Oil. $[\alpha]_D^{22} + 117^\circ$ (c, 0.89 in CCl_4).Tori, M. *et al*, *Phytochemistry*, 1993, **32**, 1229 (*isol*, *pmr*, *cmr*)**Schizanlignone B****S-10035**

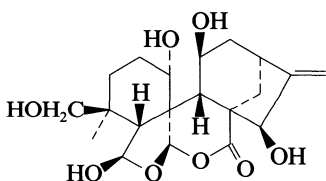
7,8-Dihydro-3-hydroxy-1,2,10,11,12-pentamethoxy-6,7-dimethyldibenzo[a,c]cycloocten-5(6H)-one, 9CI.

Schizanlignone B

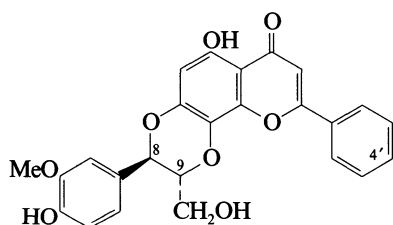
[135459-86-8]

 $C_{23}H_{28}O_7$ M 416.470Constit. of the seeds of a *Kadsura* sp. Slows antileukaemic activity.*Me ether*: [135557-67-4]. *Schizanlignone A*. *Schizanlignone A* $C_{24}H_{30}O_7$ M 430.497Constit. of the seeds of a *K.* sp. Shows antileukaemic activity.Liu, J. *et al*, *Huaxue Xuebao*, 1991, **49**, 412; *CA*, **115**, 89135 (*isol*)**Sculponeatin D****S-10036**

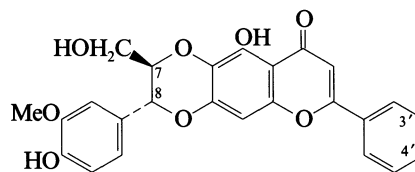
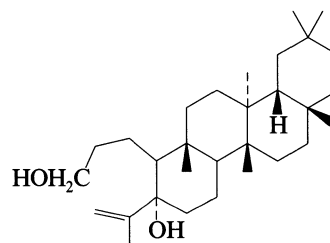
[137293-41-5]

 $C_{20}H_{28}O_8$ M 396.436Constit. of *Rabdosia sculponeata*. Cryst. (Me_2CO). Mp 288-290.5°. $[\alpha]_D^{19} - 100^\circ$ (MeOH).Zhang, R.P. *et al*, *Chin. Chem. Lett.*, 1991, **2**, 293 (*isol*, *pmr*, *cmr*)**Scutellaprostin A****S-10037**

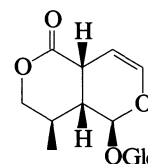
[137166-36-0]

 $C_{25}H_{20}O_8$ M 448.428Constit. of the roots of *Scutellaria prostrata*. Yellow needles (MeOH). Mp 221-222°. Racemic.4'-Hydroxy: [137231-84-6]. *Scutellaprostin B* $C_{25}H_{20}O_9$ M 464.428Constit. of the roots of *S. prostrata*. Yellow needles (MeOH). Mp 255-256° dec.3',4'-Dihydroxy: [137231-85-7]. *Scutellaprostin C* $C_{25}H_{20}O_{10}$ M 480.427Constit. of the roots of *S. prostrata*. Yellow needles (MeOH). Mp 250-251° dec.Kikuchi, Y. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1466 (*isol*, *pmr*, *cmr*)**Scutellaprostin D****S-10038**

[137231-86-8]

 $C_{25}H_{20}O_8$ M 448.428Constit. of the roots of *Scutellaria prostrata*. Yellow needles (MeOH). Mp 234-235° dec. Racemic.4'-Hydroxy: [137231-87-9]. *Scutellaprostin E* $C_{25}H_{20}O_9$ M 464.428Constit. of the roots of *S. prostrata*. Yellow needles (MeOH). Mp 240-241° dec.3',4'-Dihydroxy: [137231-88-0]. *Scutellaprostin F* $C_{25}H_{20}O_{10}$ M 480.427Constit. of the roots of *S. prostrata*. Yellow needles (MeOH). Mp 204-205° dec.Kikuchi, Y. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1466 (*isol*, *pmr*, *cmr*)**3,4-Seco-4(23)-friedelene-3,5-diol****S-10039** $C_{30}H_{52}O_2$ M 444.7405 α -form*Dischidiol*Constit. of *Dischidia formosana*. Cryst. ($CHCl_3/MeOH$).Mp 193-195°. $[\alpha]_D^{20} + 116.5^\circ$ (c, 0.4 in $CHCl_3$).Chen, Z.-S. *et al*, *Phytochemistry*, 1993, **34**, 783 (*isol*, *pmr*, *cryst struct*)**Secolinarioside****S-10040**

[150395-85-0]



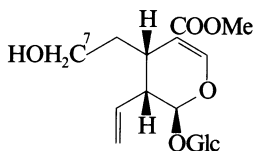
$C_{15}H_{22}O_9$ M 346.333
Constit. of *Linaria japonica*. Amorph. powder. $[\alpha]_D^{25}$ -125°
(c, 0.96 in MeOH).

Otsuka, H. *et al*, *Phytochemistry*, 1993, **33**, 617 (*isol*, *pmr*, *cmr*)

Secologanol**S-10041**

Updated Entry replacing S-00456

[72463-81-1]

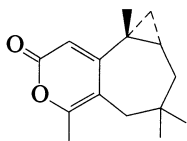


$C_{17}H_{26}O_{10}$ M 390.386
Constit. of *Gentiana verna*.

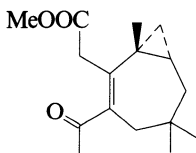
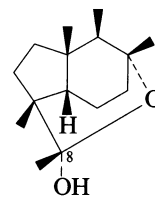
7-Ac: 7-Acetylsecologanol

 $C_{19}H_{28}O_{11}$ M 432.424Constit. of *G. verna*.7-O-(2,5-Dihydroxybenzoyl): [111116-40-6]. **Syringalactone B. Lilacoside** $C_{24}H_{30}O_{13}$ M 526.493Constit. of *Syringa vulgaris* and *G. verna*. Cryst. (as hexa-Ac). Mp 58° (hexa-Ac). $[\alpha]_D^{25}$ -35.6° ($CHCl_3$) (hexa-Ac).7-O-(3,4,5-Trihydroxybenzoyl): [131189-57-6]. **Cornuside. 7-Galloylsecologanol** $C_{24}H_{30}O_{14}$ M 542.493Isol. from fruits of *Cornus officinalis*. Off-white powder. $[\alpha]_D^{21}$ -91° (c, 1.0 in MeOH).7-Carboxylic acid, Me ester: **Secologanoside 7-methyl ester** $C_{18}H_{26}O_{11}$ M 418.397Constit. of *Osmanthus asiaticus*. Amorph. powder. $[\alpha]_D^{25}$ -115.0° (MeOH).Kikuchi, M. *et al*, *CA*, 1988, **109**, 89748 (*Syringalactone B*)Mpondo, E.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 1146 (*isol*, *pmr*, *cmr*)Hatano, T. *et al*, *Phytochemistry*, 1990, **29**, 2925 (*Cornuside*)Sugiyama, M. *et al*, *Phytochemistry*, 1993, **34**, 1169 (*Secologanoside methyl ester*)**Secoswartzianin A****S-10042**

[150375-22-7]

 $C_{15}H_{20}O_2$ M 232.322Constit. of *Porella swartziana*. Cryst. (hexane). Mp $127-128.5^\circ$. $[\alpha]_D^{20}$ -39° (c, 1.45 in $CHCl_3$).Tori, M. *et al*, *Tetrahedron Lett.*, 1993, **34**, 3753 (*isol*, *pmr*, *cmr*)**Secoswartzianin B****S-10043**

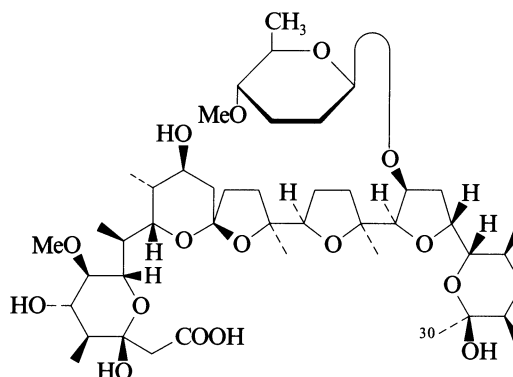
[150375-23-8]

 $C_{16}H_{24}O_3$ M 264.364Constit. of *Porella swartziana*. Oil. $[\alpha]_D^{22}$ -111° (c, 1.12 in $CHCl_3$).Tori, M. *et al*, *Tetrahedron Lett.*, 1993, **34**, 3753 (*isol*, *pmr*, *cmr*)**Seiricardine B****S-10044** $C_{15}H_{26}O_2$ M 238.369Metab. of *Seiridium cardinale*, *S. cupressi* and *S. unicorne*.Oil. $[\alpha]_D^{25}$ -29.7° (c, 1.17 in $CHCl_3$).8-Epimer: **Seiricardine C** $C_{15}H_{26}O_2$ M 238.369Metab. of *S. cardinale*, *S. cupressi* and *S. unicorne*. Oil. $[\alpha]_D^{25}$ -22.3° (c, 1.13 in $CHCl_3$).Evidente, A. *et al*, *Phytochemistry*, 1993, **33**, 69 (*isol*, *pmr*, *cmr*, *ms*)**Semduramicin, BAN, INN****S-10045**

Updated Entry replacing S-00522

Antibiotic UK 61689. UK 61689

[113378-31-7]

 $C_{45}H_{76}O_{16}$ M 873.086Polyether antibiotic. Prod. by *Actinomadura roseorufa*.

Coccidiostat. Growth promoter. Isol. as Na salt.

Na salt: Mp $175-176^\circ$ (167°).30-Hydroxy: **Antibiotic CP 120509. CP 120509** $C_{45}H_{76}O_{17}$ M 889.085Prod. by *Actinomadura roseorufa*. Coccidiostat. Mp $80-82^\circ$. $[\alpha]_D^{25}$ $+32.3^\circ$ (c, 1 in $CHCl_3$).30-Hydroxy, *Na salt*: Mp $143-145^\circ$. $[\alpha]_D^{25}$ $+28.3^\circ$ (c, 1 in $CHCl_3$).*Eur. Pat.*, 314 330, (1989); *CA*, **112**, 75303 (*isol*, *cmr*)Dirlam, J.P. *et al*, *J. Antibiot.*, 1991, **44**, 1262; 1992, **45**, 1545 (*pmr*, *cmr*, *CP 120509*)Tynan, E.J. *et al*, *J. Antibiot.*, 1992, **45**, 813 (*isol*)

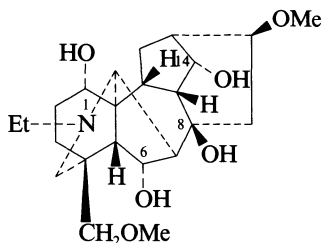
Senbusine A

S-10046

Updated Entry replacing S-00541

Bataconine

[82202-95-7]

 $C_{23}H_{37}NO_6$ M 423.548

Bataconine not proved identical with Senbusine A. Mp refers to Bataconine. Alkaloid from the roots of *Aconitum carmichaeli*, *A. napellus* and *A. ibukiense* (Ranunculaceae). Amorph. powder or cryst. (Me_2CO). Mp 96-99°.

O^1 -Me: [91794-15-9]. **Foresticine**. Longtouconitine B. 6 α -Hydroxytalatzamine

 $C_{24}H_{39}NO_6$ M 437.575

Alkaloid from the roots of *A. forrestii* and *A. longtounense* (Ranunculaceae). Mp 79-80°. $[\alpha]_D^{21} -1.9^\circ$ (c, 1 in $CHCl_3$).

O^1 -Me, 14-O-(4-Methoxybenzoyl): [99713-74-3].

Geniconitine $C_{32}H_{45}NO_8$ M 571.709

Alkaloid from roots of *A. geniculatum* (Ranunculaceae).

O^1 -Me, O^8 -Ac, O^{14} -benzoyl: [132185-72-9]. **Patentine**

 $C_{33}H_{45}NO_8$ M 583.720

Alkaloid from the roots of *A. vilmorrianum* var. *patentipilum* (Ranunculaceae). Amorph. solid.

O^6 -Me: see *Neoline*, N-00225

O^1, O^6 -Di-Me: see *Chasmanine*, C-00859

O^8 -Me, 14-Ac: [125263-87-8]. **Nuttalianine**. 7-Deoxypubescenine

 $C_{26}H_{41}NO_7$ M 479.612

Minor alkaloid from *Delphinium nuttalianum* (Ranunculaceae). Mp 84-86°. $[\alpha]_D^{23} \sim 0^\circ$. Plain -ve ORD dispersion curve, $[\alpha]_{365}^{25} \sim -15^\circ$.

8,14-Di-Ac: [116139-60-7]. **Delstaphisinine**

 $C_{27}H_{41}NO_8$ M 507.623

Alkaloid from seeds of *D. staphisagria* (Ranunculaceae). Cryst. (Et_2O /hexane). Mp 158-160°. $[\alpha]_D^{25} -14.1^\circ$ (c, 0.15 in $CHCl_3$).

Tetra-Ac: Mp 178-180°. $[\alpha]_D^{25} +36.4^\circ$ (c, 0.17 in $CHCl_3$).

O^1, O^{14} -Di-Me: **14-O-Methylforesticine**

 $C_{25}H_{41}NO_6$ M 451.602

Alkaloid from roots of *A. septentrionale* (Ranunculaceae). Cryst. (Me_2CO). Mp 127-129°. $[\alpha]_D +20.9^\circ$ (c, 0.134 in $CHCl_3$).

Konno, C. *et al*, *J. Nat. Prod. (Lloydia)*, 1982, **45**, 128 (*isol, ir, pmr, cmr, struct*)

Hikino, H. *et al*, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 190 (*isol*)

Pelletier, S.W. *et al*, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 474 (*isol, pmr, cmr, struct, Foresticine*)

Sakai, S. *et al*, *Yakugaku Zasshi*, 1984, **104**, 222; *CA*, **101**, 69329k (*isol*)

Luo, S. *et al*, *Huaxue Xuebao*, 1985, **43**, 577; *CA*, **103**, 157320x (*Longtouconitine B*)

Hao, X. *et al*, *Zhiwu Xuebao*, 1985, **27**, 504; *CA*, **104**, 31721f (*Geniconitine*)

Ross, S.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1988, **51**, 572 (*Delstaphisinine*)

Batbayar, N. *et al*, *Khim. Prir. Soedin.*, 1988, **24**, 237; *Chem. Nat. Compd. (Engl. Transl.)*, 200 (*Bataconine*)

Bai, Y. *et al*, *Heterocycles*, 1989, **29**, 1017 (*Nuttalianine*)

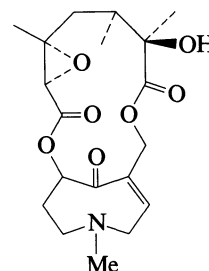
Ding, L.-S. *et al*, *Phytochemistry*, 1990, **29**, 3694 (*Patentine*)

Sayed, H.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1595 (*14-O-Methylforesticine*)

Senecioracene

S-10047

[146573-88-8]

 $C_{19}H_{27}NO_7$ M 381.425

Alkaloid from *Senecio racemosus* (Compositae). Oil. $[\alpha]_D +50^\circ$ (c, 0.2 in $CHCl_3$).

Ahmed, W. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1764 (*isol, ir, pmr, cmr, ms, struct*)

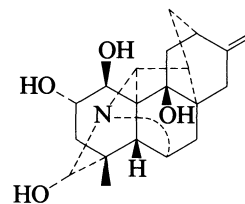
Septentriosine

S-10048

Updated Entry replacing S-00581

Hetisan-1 β ,2 α ,9 β ,19 α -tetrol

[115569-73-8]

 $C_{20}H_{27}NO_4$ M 345.438

Minor alkaloid from the roots of *Aconitum septentrionale* (Ranunculaceae). Cubes ($MeOH$). Mp 260-262°. $[\alpha]_D^{28} +20.78^\circ$ (c, 0.55 in $MeOH$).

B.HCl: Cryst. ($MeOH$). Mp 299-300°. $[\alpha]_D -7.5^\circ$ (c, 1.0 in $MeOH$).

O^2 -Ac: **2-Acetylseptentriosine**

 $C_{22}H_{29}NO_5$ M 387.475

Alkaloid from roots of *A. septentrionale* (Ranunculaceae). Cryst. + $1H_2O$ (Et_2O /hexane). Mp 182-184° (with swelling and darkening at 150-156°). $[\alpha]_D^{15} +6.4^\circ$ (c, 1 in $EtOH$).

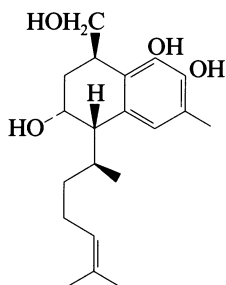
O^1, O^2, O^{19} -Tri-Ac: Cryst. (Me_2CO). Mp 210.5-212.5°.

Joshi, B.S. *et al*, *J. Nat. Prod. (Lloydia)*, 1988, **51**, 265 (*isol, ir, pmr, cmr, ms, cryst struct*)

Ross, S.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 424 (*2-Acetylseptentriosine*)

14-Serrulatene-3,7,8,20-tetrol

S-10049

C₂₀H₃₀O₄ M 334.4553 α -form [148966-05-6]Constit. of *Eremophila duttonii*.Tippett, L.M. *et al*, *Phytochemistry*, 1993, **33**, 417 (*isol*, *pmr*, *cmr*)

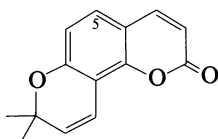
Seselin

S-10050

Updated Entry replacing S-00645

8,8-Dimethyl-2H,8H-benzo[1,2-b:3,4-b']dipyran-2-one, 9CI.
Amyrolin

[523-59-1]

C₁₄H₁₂O₃ M 228.247Constit. of the fruits of *Seseli indicum*, *Ruta pinnata*,
Flindersia spp., *Carum roxburghianum*, *Myrtopsis* spp.,
Skimmia spp., *Pimpinella heyneana* and others. Cryst.
(MeOH/Et₂O). Mp 119-120°.2-Deoxo: [98119-92-7]. 8,8-Dimethyl-2H,8H-benzo[1,2-
b:3,4-b']dipyran, 9CI. **Sesalin**C₁₄H₁₄O₂ M 214.263Constit. of *Amyris marshii*. Pale yellow oil.Späth, E. *et al*, *Ber.*, 1939, **72**, 821, 963, 2093 (*isol*, *synth*)Barnes, C.S. *et al*, *Aust. J. Chem.*, 1964, **17**, 975 (*ms*)Shanbhag, S.N. *et al*, *Tetrahedron*, 1964, **20**, 2605 (*synth*, *pmr*)Kato, K., *Acta Crystallogr., Sect. B*, 1970, **26**, 2022 (*cryst struct*)Hlubucek, J., *Aust. J. Chem.*, 1971, **24**, 2347 (*synth*)Gupta, G.S. *et al*, *J. Indian Chem. Soc.*, 1974, **51**, 904 (*isol*)Bowden, B.F. *et al*, *Aust. J. Chem.*, 1975, **28**, 1393 (*isol*)Gray, A.I. *et al*, *J. Chem. Soc., Perkin Trans. 2*, 1978, 391 (*pmr*)Sattar, A. *et al*, *Phytochemistry*, 1978, **17**, 559 (*isol*)Dominguez, X.A. *et al*, *Rev. Latinoam. Quim.*, 1985, **16**, 52
(*Sesalin*)Narkhede, D.D. *et al*, *Tetrahedron*, 1990, **46**, 2031 (*Sesalin*)

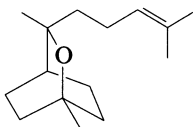
Sesquiceneol

S-10051

Updated Entry replacing S-00652

3,7-Epoxy-10-bisabolene. 3,7-Oxido-10-bisabolene

[90131-02-5]

C₁₅H₂₆O M 222.370Constit. of *Senecio subbriflorus*, *Anthemis alpestris*,
Ayendron barbeyana and *Boronia megastigma*.Perfumery compound. Oil. Bp₅ 90-94°, Bp_{0.1} 120°. [α]_D²⁴
–8.4° (c, 4.06 in CHCl₃).

1,2-Didehydro: 3,7-Epoxy-1,10-bisaboladiene.

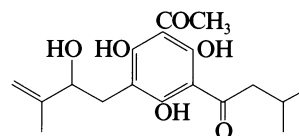
DehydrosesquiceneolC₁₅H₂₄O M 220.354Constit. of *Artemisia sieberi*. Oil. [α]_D²⁰ –21.8° (c, 0.1 in
CHCl₃).Bohlmann, F. *et al*, *Phytochemistry*, 1982, **21**, 1697 (*isol*)Pascual Teresa, J. de. *et al*, *Tetrahedron*, 1988, **44**, 5109 (*synth*, *ir*,
pmr, *cmr*, *ms*)Weyerstahl, P. *et al*, *Tetrahedron*, 1990, **46**, 3503 (*synth*)Weyerstahl, P. *et al*, *Justus Liebigs Ann. Chem.*, 1993, 111
(*Dehydrosesquiceneol*)

Sessiliflorene

S-10052

1-[3-Acetyl-2,4,6-trihydroxy-5-(2-hydroxy-3-methyl-3-
butenyl)phenyl]-3-methyl-1-butanone, 9CI. 2',4',6'-
Trihydroxy-3'-(2-hydroxy-3-methyl-3-butenyl)-5'-(3-methyl-
1-oxobutyl)acetophenone

[119998-59-3]

C₁₈H₂₄O₆ M 336.384

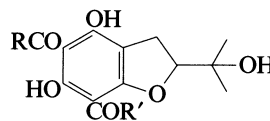
(±)-form

Constit. of the leaves of *Melicope sessiliflora*. Cryst.
(Et₂O/hexane). Mp 117-120°.Chan, J.A. *et al*, *J. Org. Chem.*, 1989, **54**, 2098 (*isol*, *pmr*, *cmr*)

Sessiliflorol A

S-10053

[119998-60-6]

R = CH₃, R' = CH₂CH(CH₃)₂C₁₈H₂₄O₆ M 336.384

(±)-form

Constit. of the leaves of *Melicope sessiliflora*. Cryst.
(Et₂O/hexane). Mp 105-107°.Chan, J.A. *et al*, *J. Org. Chem.*, 1989, **54**, 2098 (*isol*, *pmr*, *cmr*)

Sessiliflorol B

S-10054

[119998-61-7]

As Sessiliflorol A, S-10053 with

R = CH₂CH(CH₃)₂, R' = CH₃C₁₈H₂₄O₆ M 336.384

(±)-form

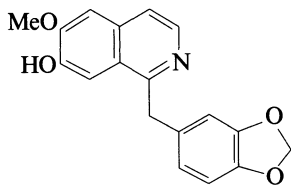
Constit. of the leaves of *Melicope sessiliflora*.Chan, J.A. *et al*, *J. Org. Chem.*, 1989, **54**, 2098 (*isol*, *pmr*, *cmr*)

Sevanine**S-10055**

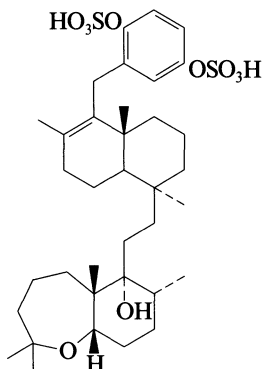
Updated Entry replacing S-00663

1-(1,3-Benzodioxol-5-ylmethyl)-6-methoxy-7-isoquinolinol,
9Cl. 7-Hydroxy-6-methoxy-1-(3,4-methylenedioxybenzyl)
isoquinoline

[54293-58-2]

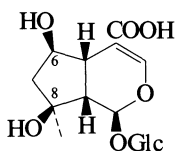
 $C_{18}H_{15}NO_4$ M 309.321Alkaloid from *Papaver macrostomum* (Papaveraceae). Mp 218°.*Me ether*: Mp 106-108°. β -D-Glucopyranoside: [77396-64-6]. **Glycomarine** $C_{24}H_{25}NO_9$ M 471.463Alkaloid from *P. arenarium* (Papaveraceae).Mnatsakanyan, V.A. et al, *Tetrahedron Lett.*, 1974, 851 (*ms, uv, pmr, struct*)Simanek, V. et al, *Heterocycles*, 1976, 4, 1263 (*synth*)Israilov, I.A. et al, *Khim. Prir. Soedin.*, 1980, 852 (*Glycomarine*)**Shaagrocockol C****S-10056**

[141968-27-6]

 $C_{36}H_{56}O_{10}S_2$ M 712.964Constit. of *Toxiclona toxius*. $[\alpha]_D + 8^\circ$ (c, 0.7 in MeOH) (as di-Na salt).Isaacs, S. et al, *Tetrahedron Lett.*, 1992, 33, 2227 (*isol, pmr, cmr*)**Shanzhiside****S-10057**

Updated Entry replacing S-00682

(1- β -D-Glucopyranosyloxy)-1,4a,5,6,7,7a-hexahydro-5,7-dihydroxy-7-methylcyclopenta[c]pyran-4-carboxylic acid, 9Cl
[29836-27-9]

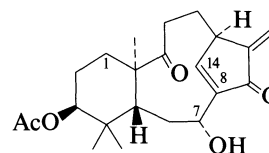
 $C_{16}H_{24}O_{11}$ M 392.359Constit. of *Gardenia jasminoides*. Cryst. Mp 82-90°. $[\alpha]_D - 81.7^\circ$ (EtOH).*Me ester*: [64421-28-9]. $C_{17}H_{26}O_{11}$ M 406.386Constit. of *Mussaenda parviflora* and *Salvia digitaloides*. Powder. $[\alpha]_D^{30} - 110.8^\circ$ (c, 0.42 in MeOH).*Penta-Ac*: Cryst. Mp 111-112°.*Me ester*, 6'-O- β -D-glucosyl: *Shanzhisin methyl ester gentiobioside*. *Pedicularioside F* $C_{23}H_{36}O_{16}$ M 568.528Constit. of *Canthium subcordatum*. Cryst.(MeOH/CHCl₃) or amorph. powder. Mp >150° dec. $[\alpha]_D^{15} - 65.4^\circ$, $[\alpha]_D^{20} - 56^\circ$ (MeOH). The 2 samples apparently not compared.6-(4-Hydroxy-3,5-dimethoxybenzoyl), 8-Ac, *Me ester*: [86450-76-2]. $C_{28}H_{36}O_{16}$ M 628.583Constit. of Chinese drug Bai-Yun-Shen (*S. digitaloides*). Powder. $[\alpha]_D^{24} - 71.0^\circ$ (c, 1.01 in MeOH).8-Ac, *Me ester*: [57420-46-9]. **Barlerin**. *Umbroside* $C_{19}H_{28}O_{12}$ M 448.423Constit. of *Barleria prionitis*. Cryst. (EtOAc). Mp 180°. $[\alpha]_D - 8.5^\circ$ (c, 0.8 in MeOH).6,8-Di-O-Ac, *Me ester*: [57420-45-8]. **Acetylbarlerin** $C_{21}H_{30}O_{13}$ M 490.460From *B. prionitis*. Hygroscopic powder. $[\alpha]_D - 99^\circ$ (c, 2.0 in MeOH).6-Ac, *Me ester*: [110186-13-5]. **6-O-Acetylshanghiside methyl ester** $C_{19}H_{28}O_{12}$ M 448.423Constit. of *B. lupulina*. Needles (MeOH/EtOAc). Mp 227-228°. $[\alpha]_D^{22} - 118.7^\circ$ (c, 0.17 in MeOH).

6-O-(4-Hydroxy-3-methoxycinnamoyl): [91599-28-9].

Tarennine[†]Isol. from *Tarenna graveolens*. Cryst. (EtOAc). Mp 158-160°. $[\alpha]_D^{20} - 117^\circ$ (c, 0.6 in MeOH).6'-O-Benzoyl, *Me ester*: **6'-O-Benzoylshanzhiside methyl ester** $C_{24}H_{30}O_{12}$ M 546.527Constit. of *Rhinanthus angustifolius*. Amorph. powder. $[\alpha]_D^{17} - 94.8^\circ$ (c, 0.23 in MeOH).Inouye, H. et al, *Tetrahedron Lett.*, 1970, 3581 (*isol*)Taneja, S.C. et al, *Tetrahedron Lett.*, 1975, 1995 (*Barlerin*)Takeda, Y. et al, *Phytochemistry*, 1977, 16, 1401 (*isol*)Achenbach, H. et al, *Tetrahedron Lett.*, 1980, 3677 (*isol*)Damtoft, S. et al, *Phytochemistry*, 1981, 20, 2717 (*cmr*)Damtoft, S. et al, *Tetrahedron Lett.*, 1982, 23, 4155 (*isol*)Tanaka, T. et al, *Chem. Pharm. Bull.*, 1983, 31, 780 (*isol*)Nicoletti, M. et al, *Gazz. Chim. Ital.*, 1984, 114, 49 (*Tarennine*)Byrne, L.T. et al, *Aust. J. Chem.*, 1987, 40, 785 (*isol, cryst struct*)Zhongjian, J. et al, *Phytochemistry*, 1992, 31, 263 (*Pedicularioside F*)Takeda, Y., *Phytochemistry*, 1993, 33, 623 (*isol, deriv, pmr, cmr*)**Shikoccin****S-10058**

Updated Entry replacing S-00688

[73211-11-7]

 $C_{22}H_{30}O_5$ M 374.476Constit. of *Rabdosia shikokiana*. Cryst. Mp 150-152°. $[\alpha]_D^{24} + 47^\circ$ (CHCl₃).7-*Me ether*: [83159-26-6]. **O-Methylshikoccin** $C_{23}H_{32}O_5$ M 388.503Constit. of *Rabdosia shikokiana*. Cryst. Mp 268-271°. $[\alpha]_D^{25} - 4.5^\circ$ (c, 0.40 in MeOH).8 α ,14 α -Epoxide: [83159-27-7]. **Epoxyshikoccin** $C_{22}H_{30}O_6$ M 390.475

From *R. shikokiana*. Cryst. Mp 124-126°. [α]_D²⁵ – 6.3° (c, 0.35 in MeOH).

7-Me ether, 8 α ,14 α -epoxide: [83159-28-8]. O-

Methylepoxyshikoccin

C₂₃H₃₂O₆ M 404.502

From *R. shikokiana*. Cryst. Mp 142-144°. [α]_D²⁵ + 24.2° (c, 0.60 in MeOH).

1 α -Acetoxy: [71503-81-6]. **Shikodomedin**

C₂₄H₃₂O₇ M 432.513

Prod. by *R. shikokiana*. Antitumour agent. Cryst. Mp 193-194°. [α]_D²⁰ – 67.0° (c, 0.46 in CHCl₃).

1 α -Acetoxy, 8 α ,14 α -epoxide: [71503-82-7]. **Shikokiamedin**

C₂₄H₃₂O₈ M 448.512

Prod. by *R. shikokiana*. Antitumour agent. Amorph. powder. [α]_D²⁰ – 42.5° (c, 0.261 in CHCl₃).

1 α -Hydroxy, 3-deacetoxy: [89354-63-2]. **Rabdolatifolin**

C₂₀H₂₈O₄ M 332.439

Constit. of *R. umbrosa*. Syrup. [α]_D – 45.1° (c, 0.14 in MeOH).

3-Deacetoxy: [123941-77-5]. **Rabdombrosanin**

C₂₀H₂₈O₃ M 316.439

Constit. of *R. umbrosa*. Syrup. [α]_D²² – 40.6° (c, 0.16 in MeOH).

Fujita, E. *et al*, *J. Chem. Soc., Chem. Commun.*, 1979, 806 (*isol*)

Fujita, T. *et al*, *Phytochemistry*, 1979, **18**, 299 (*Shikodomedin*, *Shikokiamedin*)

Taga, T. *et al*, *Acta Crystallogr., Sect. B*, 1982, **38**, 2941 (*cryst struct*)

Node, M. *et al*, *Chem. Pharm. Bull.*, 1982, **30**, 2639 (*isol*)

Fujita, T. *et al*, *J. Chem. Soc., Chem. Commun.*, 1982, 162 (*Shikodomedin*, *Shikokiamedin*)

Takeda, Y. *et al*, *Phytochemistry*, 1983, **22**, 2531 (*Rabdolatifolin*)

Node, M. *et al*, *Chem. Pharm. Bull.*, 1985, **33**, 1029 (*isol*)

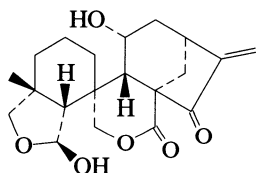
Takeda, Y. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 1213 (*Rabdombrosanin*)

Shikodonin

S-10059

Updated Entry replacing S-00689

[66548-00-3]



C₂₀H₂₆O₆ M 362.422

Struct. uncertain. Same struct assigned to Trichorobdal F (see Trichorobdal E, T-01727) and the struct. prev.assigned to Shikodonin is questioned. Constit. of *Isodon shikokianus*. Shows antitumour activity. Cryst. Mp 206-209°.

6-Me ether: [66548-01-4]. **Angustifolin**†

C₂₁H₂₈O₆ M 376.449

Constit. of *Rabdosia angustifolia*.

Kubo, I. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 628.

Node, M. *et al*, *Heterocycles*, 1984, **22**, 1701.

Sun, H. *et al*, *CA*, 1985, **102**, 21180g (*Angustifolin*)

Node, M. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 1470 (*struct*)

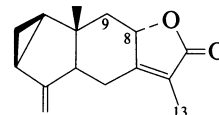
Shizukanolide

S-10060

Updated Entry replacing S-00705

Chloranthalactone A

[70578-36-8]



C₁₅H₁₈O₂ M 230.306

Stereochem. of related compds. (see 13-

Deoxyisoonoceriolide, D-00483) were revised in 1984.

Not clear whether compds. covered by this entry are affected by the revision. Constit. of *Chloranthus japonicus* and *C. glaber*. Cryst. (also descr. as oil). Mp 95-96.5°. [α]_D²⁰ + 200° (c, 2.1 in CHCl₃).

8,9-Didehydro: [66395-02-6]. **Dehydroshizukanolide**.

Shizukanolide B

C₁₅H₁₆O₂ M 228.290

Constit. of *C. japonicus*. Cryst. or oil. Mp 64-65.5°. [α]_D¹⁶ + 59.8° (c, 1 in CHCl₃).

8 α ,9 α -Epoxide: [66395-03-7]. **Chloranthalactone B**

C₁₅H₁₆O₃ M 244.290

Constit. of *C. japonicus* and *C. glaber*. Cryst. (Me₂CO). Mp 145-146°. [α]_D²⁷ – 1303° (c, 0.1 in MeOH).

13-Hydroxy: **8,9-Dihydroonoseriolide**

C₁₅H₁₈O₃ M 246.305

Isol. from *Actinoseris polymorpha*. Cryst. (Et₂O/pet. ether). Mp 174°. [α]_D²⁴ – 203° (c, 0.31 in CHCl₃).

8,9-Didehydro, 13-hydroxy: [76015-58-2]. **Onoseriolide**

Constit. of *Onoseris albicans*. Oil. Mp 93° (as acetate). [α]_D²⁴ – 18.3° (c, 0.06 in CHCl₃) (acetate).

8 β ,9 β -Epoxide: **Chloranthalactone F**

C₁₅H₁₆O₃ M 244.290

Constit. of *C. glaber*. Cryst. Mp 221-222°. [α]_D²⁰ + 30.8° (c, 0.52 in CHCl₃).

Kawabata, J. *et al*, *Agric. Biol. Chem.*, 1979, **43**, 885; 1981, **45**, 1447.

Bohlmann, F. *et al*, *Phytochemistry*, 1980, **19**, 689; 1981, **20**, 1631.

Bohlmann, F. *et al*, 1984, **10**, 228, 1631.

Takeda, Y. *et al*, *Phytochemistry*, 1993, **33**, 713 (*Chloranthalactone F*)

Siameadin

S-10061

Bianthraquinone pigment of unknown struct. Isol. from the bark of *Cassia siamea*. Mp 310° dec.

Chatterjee, A. *et al*, *J. Indian Chem. Soc.*, 1964, **41**, 415 (*isol*)

Escherichia coli Signal peptide

S-10062

[80395-90-0]

H-Lys-Gln-Ser-Thr-Ile-Ala-Leu-Ala-Leu-Leu-Pro-Leu-Leu-Phe-Thr-Pro-Val-Thr-Lys-Ala-OH

Constit. of *E. coli*. Bacterial signal peptide.

Kikuchi, Y. *et al*, *Agric. Biol. Chem.*, 1981, **45**, 2401 (*struct*)

Inouye, H. *et al*, *J. Bacteriol.*, 1982, **149**, 434 (*struct*)

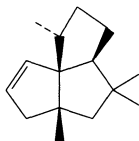
Reddy, G.L. *et al*, *Proc. Indian Acad. Sci., Chem. Sci.*, 1986, **97**, 71 (*synth*)

1-Silphinene

Updated Entry replacing S-00741

Silphinene

[74284-57-4]

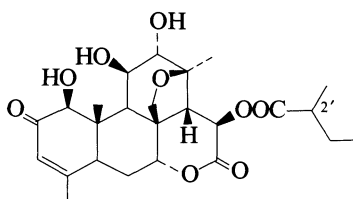
 $C_{15}H_{24}$ M 204.355Constit. of *Silphium perfoliatum*. Oil. $[\alpha]_D^{24} -21.3^\circ$ (c, 3.7 in $CHCl_3$).

Bohlmann, F. *et al*, *Phytochemistry*, 1980, **19**, 259 (*isol*)
 Leone-Bay, A. *et al*, *J. Org. Chem.*, 1982, **47**, 4173 (*synth*)
 Paquette, L.A. *et al*, *J. Am. Chem. Soc.*, 1983, **105**, 7352 (*synth*)
 Tsunoda, T. *et al*, *Tetrahedron Lett.*, 1983, **24**, 83 (*synth*)
 Sternbach, D.D. *et al*, *J. Am. Chem. Soc.*, 1985, **107**, 2149 (*synth*)
 Wender, P.A. *et al*, *Tetrahedron Lett.*, 1985, **26**, 2625 (*synth*)
 Crimmins, M.T. *et al*, *Tetrahedron Lett.*, 1987, **28**, 5063 (*synth*)
 Yamamura, S. *et al*, *Tetrahedron*, 1991, **47**, 635 (*synth*)
 Franck-Neumann, M. *et al*, *Tetrahedron Lett.*, 1991, **32**, 2149 (*synth*)
 Fitjer, L. *et al*, *J. Org. Chem.*, 1993, **58**, 6171 (*abs config*)

Simalikalactone D

Updated Entry replacing S-00758

[35321-80-3]

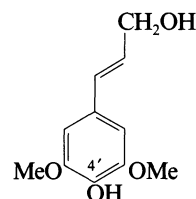
 $C_{25}H_{34}O_9$ M 478.538Constit. of *Quassia africana* and *Picrolemma granatensis*. Cryst. Mp 228-230°. $[\alpha]_D +53^\circ$.2'-Acetoxy: [59938-97-5]. **Quassimar** $C_{27}H_{36}O_{11}$ M 536.575Constit. of *Q. amara*. Cytotoxic agent showing good *in vivo* antitumour activity. Cryst. (EtOAc/hexane). Mp 237.5-238.5°. $[\alpha]_D^{26} +22.4^\circ$ (c, 0.29 in $CHCl_3$).15-Deacyl, 15-(3-methyl-2-butenoyl): **Gutolactone** $C_{25}H_{32}O_9$ M 476.522Constit. of *Simaba guianensis*. Cryst. (Me_2CO). Mp 230°.Teresa, J.-P. *et al*, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1971, **273**, 601 (*Simalikalactone D*)Kupchan, S.M. *et al*, *J. Org. Chem.*, 1976, **41**, 3481 (*Quassimar*)Kraus, G.A. *et al*, *J. Org. Chem.*, 1980, **45**, 1175 (*synth*)Cabral, J.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1954 (*Gutolactone*)Rodriguez Fo, E. *et al*, *Phytochemistry*, 1993, **34**, 501 (*isol*, *pmr*, *cmr*)**S-10063****Sinapyl alcohol****S-10065**

Updated Entry replacing S-00770

4-(3-Hydroxy-1-propenyl)-2,6-dimethoxyphenol, 9CI. 3-(4-Hydroxy-3,5-dimethoxyphenyl)-2-propen-1-ol, 8CI.

Syringenin

[537-33-7]

 $C_{11}H_{14}O_4$ M 210.229**(E)-form**

Principal building block of angiosperm wood lignin. Needles (pet. ether). Mp 63-65°.

4'-O-β-D-Glucopyranoside: [118-34-3]. **Syringin**. *Lilacin*.*Methoxyconiferin*. *Eleutheroside B*. *Magnolenin*.*Alyposide*. *Syringoside*. *Ligustrin* $C_{17}H_{24}O_9$ M 372.371Isol. from *Syringa vulgaris*, *Ligustrum* spp., *Jasminum* spp., *Phyllyrea latifolia*, *P. decora*, *Paulownia tomentosa*, *Forsythia suspensa*, *Fraxinus* spp. and others. Needles or prisms (H_2O). Mp 191-192°. $[\alpha]_D -18^\circ$ (H_2O).

4'-O-[β-D-Glucopyranosyl(1→6)-β-D-glucopyranoside]:

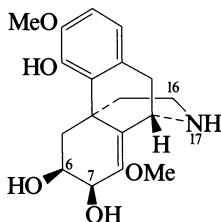
[115124-95-3]. **Syringoside** $C_{23}H_{34}O_{14}$ M 534.513Isol. from *Wikstroemia sikokiana*. Needles (MeOH aq.). Mp 178-179°. $[\alpha]_D -37.6^\circ$ (c, 1.0 in H_2O).2,3-Dihydro: 3-(4-Hydroxy-3,5-dimethoxyphenyl)-1-propanol. **Dihydrosyringin** $C_{11}H_{16}O_4$ M 212.245Constit. of *Jurinea leptoloba*.*Me ether*, 4'-O-β-D-glucopyranoside: [139742-20-4]. **Syringin methyl ether** $C_{18}H_{26}O_9$ M 386.398Constit. of *Saussurea japonica*.4'-O-(3,7-Dimethyl-2,6-octadienyl): [77836-86-3]. **O-Geranylsinapyl alcohol** $C_{21}H_{30}O_4$ M 346.466Constit. of *Fagaria rhetza* and *Verbesina glabrata*. Oil.Plouvier, V., *C. R. Hebd. Seances Acad. Sci.*, 1947, **224**, 670; 1948, **227**, 604; 1951, **232**, 1013; 1952, **234**, 1577; 1953, **237**, 1761; 1954, **238**, 1835; 1962, **254**, 4196 (*occur*)Freudenberg, K. *et al*, *Chem. Ber.*, 1951, **84**, 67.Aulin-Erdtman, G. *et al*, *Acta Chem. Scand.*, 1968, **22**, 1187 (*w*)Sutarjadi, T.M.M. *et al*, *Phytochemistry*, 1978, **17**, 564 (*isol*, *uw*, *ir*, *pmr*, *Syringin*)Zanarotti, A., *Tetrahedron Lett.*, 1982, **23**, 3815 (*synth*)Niwa, M. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 1158 (*Syringoside*)Rustaiyan, A. *et al*, *Phytochemistry*, 1991, **30**, 1929*(Dihydrosyringin)*Shibuya, H. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2325 (*O-Geranylsinapyl alcohol*)Quideau, S. *et al*, *J. Agric. Food Chem.*, 1992, **40**, 1108 (*synth*)

Sinococuline

S-10066

Updated Entry replacing S-00781

8,14-Didehydro-3,8-dimethoxymorphinan-4,6,7-triol, 9CI
[109351-36-2]



$C_{18}H_{23}NO_5$ M 333.383

Alkaloid from the stems and rhizomes of *Cocculus trilobus* (Menispermaceae). Possesses antitumour activity. Amorph. powder. $[\alpha]_D^{26} - 77^\circ$ (c, 0.1 in MeOH).

O^6, O^7 -Di-Ac: **Alkaloid FK 3000, FK 3000**

$C_{22}H_{27}NO_7$ M 417.458

Alkaloid from roots of *Stephania cepharantha* (Menispermaceae). Needles (EtOAc). Mp 185-186°. $[\alpha]_D^{22} - 163^\circ$ (c, 0.73 in MeOH).

16,17-Didehydro: **Cephamorphinanine**

$C_{18}H_{21}NO_5$ M 331.368

Alkaloid from roots of *S. cepharantha* (Menispermaceae). Needles (Me₂CO/MeOH). Mp 284-285°. $[\alpha]_D^{22} - 118^\circ$ (c, 0.07 in MeOH).

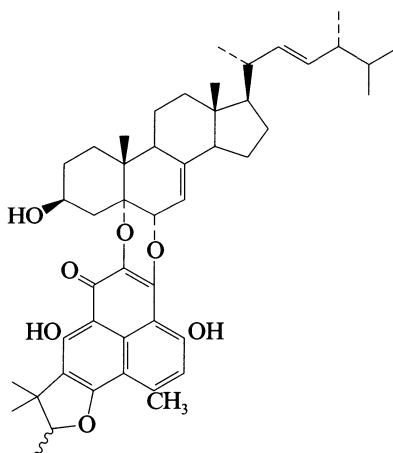
Itokawa, H. *et al*, *Chem. Pharm. Bull.*, 1987, **35**, 1660 (*isol, uv, pmr, cmr, cd, struct*)

Deng, J.-Z. *et al*, *Phytochemistry*, 1992, **31**, 1448 (*FK-3000, Cephamorphinanine*)

Sirosterol

S-10067

[145428-11-1]



$C_{47}H_{60}O_7$ M 736.987

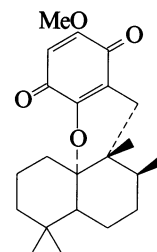
Metab. of a *Sirococcus* sp. Amorph. powder.

Ayer, W.A. *et al*, *Can. J. Chem.*, 1992, **70**, 1905 (*isol, pmr, cmr*)

Smenoqualone

S-10068

[146387-56-6]



$C_{22}H_{30}O_4$ M 358.477

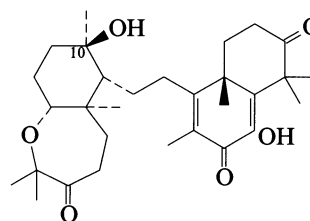
Constit. of a *Smenospongia* sp. Pale yellow oil. $[\alpha]_D + 70^\circ$ (c, 0.00125 in CHCl₃).

Bourguet-Kondracki, M.-L. *et al*, *Tetrahedron Lett.*, 1992, **33**, 8079 (*isol, pmr, cmr*)

Sodivanone A

S-10069

[150050-12-7]



$C_{30}H_{44}O_6$ M 500.674

Constit. of *Axinella weltneri*. Cryst. Mp 253°. $[\alpha]_D - 9^\circ$ (c, 0.1 in CHCl₃).

10-Deoxy: [150050-13-8]. **Sodivanone B**

$C_{30}H_{44}O_5$ M 484.675

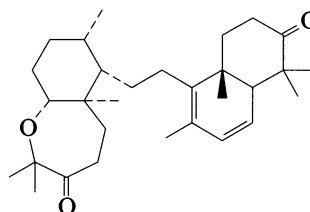
Constit. of *A. weltneri*. Glass. $[\alpha]_D - 6^\circ$ (c, 0.1 in CHCl₃).

Rudi, A. *et al*, *Tetrahedron Lett.*, 1993, **34**, 3943 (*isol, pmr, cmr, cryst struct*)

Sodivanone C

S-10070

[150079-95-1]



$C_{30}H_{46}O_3$ M 454.692

Constit. of *Axinella weltneri*. Amorph. powder. $[\alpha]_D - 35^\circ$ (c, 0.15 in CHCl₃).

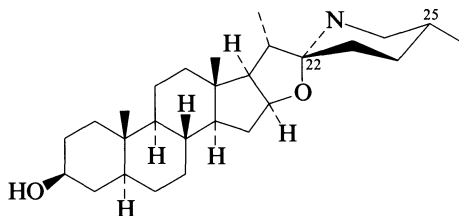
Rudi, A. *et al*, *Tetrahedron Lett.*, 1993, **34**, 3943 (*isol, pmr, cmr*)

Soladulcidine

S-10071

Updated Entry replacing S-00853

(3 β ,5 α ,22R,25R)-Spirosolan-3-ol, 9CI. 5 α -Solasodan-3 β -ol, 8CI. Megacarpidine. Dihydrosolasodine. Solasodanol [511-98-8]



$C_{27}H_{45}NO_2$ M 415.658

Diastereoisomeric with Tomatidine, T-01539 at C22 and C25. Aglycone of several very widespread glycosides found in *Solanum* spp. Said to occur free in *Lycopersicon pimpinellifolium* (Solanaceae). Mp 209-211°. $[\alpha]_D -53^\circ$ (c, 0.64 in Py), $[\alpha]_D -50^\circ$ (c, 0.4 in $CHCl_3$).

B,HCl: Mp 298-299°.

Picrate: Mp 152-154°.

Glycoside (1): **Megacarpine**

$C_{44}H_{73}NO_{16}$ M 872.058

Alkaloid from *S. megacarpum* (Solanaceae). Mp 259-260°. $[\alpha]_D -61.6^\circ$ (Py). Hydrol. gives 1 Glu, 1 Gal and 2 Xyl.

Glycoside (2): **Soladulcidine tetroside**

$C_{45}H_{75}NO_{17}$ M 902.084

Alkaloid from *S. dulcamara* (Solanaceae). Mp 268-270°. $[\alpha]_D -53^\circ$ (Py). Hydrol. gives 2 Glu, 1 Gal and 1-Xyl.

Glycoside (3): [37337-73-8]. **α -Soladulcidine**

$C_{50}H_{83}NO_{21}$ M 1034.200

Alkaloid from *S. dulcamara* and *S. pseudopersicum* (Solanaceae). Mp 265-269°. $[\alpha]_D -56^\circ$ (MeOH). Hydrol. gives 2 Glu, 1 Gal and 1 D-Xyl.

Glycoside (4): [11093-43-9]. **β -Soladulcidine**

$C_{45}H_{75}NO_{16}$ M 886.085

Alkaloid from *S. dulcamara* (Solanaceae). Mp 246-248° dec. $[\alpha]_D -39^\circ$ (c, 0.38 in MeOH). Hydrol. gives 1 Glu, 1 Gal and 1 Rha.

Glycoside (5): **γ -Soladulcidine**

Alkaloid from *S. dulcamara* (Solanaceae). Not well characterised. Isol. only (Schreiber) as a mixt. with α - and β -Soladulcines.

15 α -Hydroxy: [16137-74-9]. **15 α -Hydroxysoladulcidine**

$C_{27}H_{45}NO_3$ M 431.657

Isol. from *S. dulcamara* (Solanaceae). Prisms + 1H₂O (MeOH aq.). Mp 167-168°, Mp 209-212° (Double Mp, rapid htg.). On slow htg. the prisms turn to needles at 150-70°. Anhyd. material (by subl.) has Mp 213-5°.

15 β -Hydroxy: [16137-76-1]. **15 β -Hydroxysoladulcidine**

$C_{27}H_{45}NO_3$ M 431.657

Isol. from *S. dulcamara* (Solanaceae).

15-Oxo: **15-Oxosoladulcidine**

$C_{27}H_{43}NO_3$ M 429.642

May occur in *S. dulcamara* (Solanaceae).

2 α -Hydroxy: **2 α -Hydroxysoladulcidine**

$C_{27}H_{45}NO_3$ M 431.657

Alkaloid from roots of *Lycianthes biflora* (Solanaceae). Needles (MeOH aq.). Mp 252-255° dec. $[\alpha]_D^{22} -62.5^\circ$ (c, 0.45 in $CHCl_3$).

23R-Hydroxy: **23R-Hydroxysoladulcidine**

$C_{27}H_{45}NO_3$ M 431.657

Alkaloid from roots of *S. panduraeforme* (Solanaceae). Mp 192-193°. $[\alpha]_D^{22} -65.4^\circ$ (c, 0.44 in MeOH).

Schreiber, K., *Planta Med.*, 1958, 6, 94 (Soladulcines)

Uhle, F.C., *J. Org. Chem.*, 1962, 27, 656 (synth, struct)

Boll, P.M. et al, *Acta Chem. Scand.*, 1965, 19, 1365 (pmr, config)

Schreiber, K., *Justus Liebigs Ann. Chem.*, 1965, 682, 219 (config)

Rönsch, H. et al, *Justus Liebigs Ann. Chem.*, 1966, 694, 169 (15-Hydroxysoladulcidine)

Schreiber, K. et al, *Phytochemistry*, 1966, 5, 707 (isol)

Adam, G. et al, *Tetrahedron*, 1966, 22, 3591 (synth)

Tukalo, E.A. et al, *Khim. Prir. Soedin.*, 1971, 207 (Soladulcines)

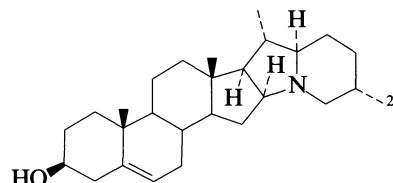
Ripperger, H. et al, *Phytochemistry*, 1992, 31, 725; 1993, 32, 1607 (2-Hydroxysoladulcidine, 23-Hydroxysoladulcidine)

Solanidine

S-10072

Updated Entry replacing S-00862

Solanid-5-en-3 β -ol, 9CI. Solatubine. Solanidine T [80-78-4]



$C_{27}H_{43}NO$ M 397.643

Alkaloid from *Solanum tuberosum*, *Cestrum purpureum*, *Fritillaria camtschaticensis*, *Rhinopetalum bucharicum* and *R. stenanthemum* (Solanaceae, Liliaceae). Glycosides, (esp. Solanines and chaconine) are trace toxic constits. of potato tubers, and interbreeding of potatoes with wild strains may increase their concn. or introduce other more toxic, solanidine glycosides. Mp 219°. $[\alpha]_D -27^\circ$ ($CHCl_3$), -18° (Py).

B,HCl: Mp 335° dec.

O-Ac: Mp 208°.

β -D-Galactopyranoside: [511-37-5]. **γ -Solanine**

$C_{33}H_{53}NO_6$ M 559.785

Alkaloid from *S. tuberosum*, *S. chacoense* and *Veratrum album* ssp. *lobelianum* (Solanaceae, Liliaceae). Mp 250° approx. $[\alpha]_D -26^\circ$ (MeOH).

β -D-Glucopyranoside: [511-36-4]. **γ -Chaconine**

$C_{33}H_{53}NO_6$ M 559.785

Alkaloid from *S. tuberosum* and *S. chacoense* (Solanaceae). Mp 243-244°. $[\alpha]_D -40^\circ$ (Py).

3-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)- β -D-glucopyranosyl-(1 \rightarrow 4)- α -L-rhamnosyl-(1 \rightarrow 2)- β -D-glucopyranoside]:

[102728-60-9]. **Hyacinthoside**

$C_{51}H_{83}NO_{20}$ M 1030.211

Alkaloid from the bulbs of *Notholiron hyacinthinum* (Liliaceae).

β -D-Glucopyranosyl-(1 \rightarrow 6)[α -L-rhamnopyranosyl(1 \rightarrow 2)]- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranoside]: [115491-59-3]. **Neohyacinthoside**

$C_{57}H_{93}NO_{25}$ M 1192.353

Isol. from the bulbs of *N. hyacinthinum*.

3-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)- β -D-glucopyranoside]: [61877-94-9]. **β -Solanine**

$C_{39}H_{63}NO_{11}$ M 721.927

Alkaloid from *S. wrightii*, *S. tuberosum* and *S. chacoense* (Solanaceae). Mp 290°. $[\alpha]_D -31^\circ$ (MeOH).

3-O-[β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-xylopyranosyl-(1 \rightarrow 4)- β -D-xylopyranoside]: **Solacauline**

$C_{43}H_{69}NO_{14}$ M 824.016

Alkaloid from *S. acaule*, *S. punae* and *S. schreiteri* (Solanaceae). Mp 260-265°. $[\alpha]_D -30^\circ$ (Py).

$[\alpha$ -L-Rhamnopyranosyl(1 \rightarrow 2)-O-[α -L-rhamnopyranosyl-(1 \rightarrow 4)]- β -D-glucopyranoside]: [20562-03-2]. **α -Chaconine**

$C_{45}H_{73}NO_{14}$ M 852.070

Alkaloid from *S. chacoense* and very many other *S.* spp. (Solanaceae). Mp 243°. $[\alpha]_D -85^\circ$ (Py).

▷ Adverse human CNS and gastro-intestinal effects by ingestion (associated with consumption of damaged or rotten potatoes). LD₅₀ (rat, ipr) 84 mg/kg. Exp. reprod. and teratogenic effects. FL6700000.

[α -L-Rhamnopyranosyl-(1→2)-O-[β -D-glycopyranosyl-(1→3)]- β -D-galactopyranoside]: [20562-02-1]. **α -Solanine**
C₄₅H₇₃NO₁₅ M 868.069
Alkaloid from *S. tuberosum* and very many other *S.* spp. (Solanaceae). Shows cytotoxic activity against mouse ascites tumour cells. Cholinesterase inhibitor. Responsible for the teratogenicity of sprouting potatoes. Mp 286°. [α]_D -59° (Py).

▷ Adverse human CNS and gastro-intestinal effects by ingestion (associated with consumption of damaged or rotten potatoes). LD₅₀ (rat, orl) 590 mg/kg. Exp. reprod. and teratogenic effects. WF0250000.

3-O-[α -L-Rhamnopyranosyl-(1→2)- β -D-glucopyranosyl-(1→4)]- β -D-glucopyranoside]: **Solanidine 3-O- α -L-rhamnopyranosyl-(1→2)- β -D-glucopyranosyl-(1→4)- β -D-glucopyranoside**

C₄₅H₇₃NO₁₅ M 868.069
Alkaloid from aerial parts of *Fritillaria thunbergii*. Needles + 2H₂O (MeOH). Mp 278-283° dec. [α]_D -58.4° (c, 1 in Py).

3-O-[α -L-Rhamnosyl-(1→4)- β -D-glucopyranosyl-(1→6)]- β -D-glucopyranoside]: [80248-79-9]. **Stenantine**

C₄₅H₇₃NO₁₅ M 868.069
Alkaloid from aerial parts of *Rhinopetalum stenanthemum* (Liliaceae). Mp 262-264°. [α]_D +46.5°. Partial hydrol → β ₂ and γ -Chaconines.

3-O-[β -D-Glucopyranosyl-(1→6)]- β -D-glucopyranoside]: [80248-81-3]. **Stenantidine**

C₃₉H₆₃NO₁₁ M 721.927
Alkaloid from aerial parts of *R. stenanthemum* (Liliaceae). Mp 269-271°. [α]_D -47.5°.

3-O-[α -L-Rhamnopyranosyl-(1→2)- β -D-glucopyranoside]: [472-51-5]. **β ₁-Chaconine**

C₃₉H₆₃NO₁₀ M 705.927
Alkaloid from *S. chacoense*, *S. commersonii*, *S. crispum*, *S. tuberosum*, *S. ajanhuiri* and *S. stenotomum* (Solanaceae). Mp 287-292° dec. [α]_D -52.5° (c, 0.9 in Py).

27-Hydroxy: [78719-99-0]. **Camtschatcanidine**

C₂₇H₄₃NO₂ M 413.642
Isol. from *F. camtschatcensis* (Liliaceae). Needles (Me₂CO). Mp 261-265°. [α]_D -19.4° (c, 0.1 in MeOH).

5,6-Dihydro: see Demissidine, D-00420

Clema, G.R. *et al.*, *J. Chem. Soc.*, 1936, 1299 (*isol*)
Prelog, V. *et al.*, *Helv. Chim. Acta*, 1942, **25**, 1306; 1944, **27**, 390 (*struct*)

Schreiber, K., *Chem. Ber.*, 1954, **87**, 1007 (*Solacauline*)
Correia Alves, L. *et al.*, *Garcia de Orta*, 1961, **9**, 713; *CA*, **61**, 12326d (*trioside*)

Budzikiewicz, H., *Tetrahedron*, 1964, **20**, 2267 (*ms*)
Höhne, E. *et al.*, *Tetrahedron*, 1966, **22**, 673 (*cryst struct*)

Schreiber, K., *Alkaloids (N.Y.)*, 1968, **10**, 1 (*rev*)
Kessar, S.V. *et al.*, *Tetrahedron*, 1971, **27**, 2153 (*synth*)
Radeaglia, R. *et al.*, *Tetrahedron Lett.*, 1977, 903 (*cmr*)
Ripperer, H. *et al.*, *Alkaloids (N.Y.)*, 1981, **19**, 81 (*rev*)
Samikov, K. *et al.*, *Khim. Prir. Soedin.*, 1981, **17**, 349; *Chem. Nat. Compd. (Engl. Transl.)*, 273 (*Stenantine, Stenantidine*)

Kaneko, K. *et al.*, *Phytochemistry*, 1981, **20**, 327 (*Camtschatcanidine*)

Katajima, J. *et al.*, *Phytochemistry*, 1982, **21**, 187 (*glycosides*)

Qiu, F. *et al.*, *CA*, 1983, **98**, 104286n (*glycoside*)

Keeler, R.F., *Alkaloids: Chem. Biol. Perspect.*, 1984, **4**, 389 (*rev, tox*)

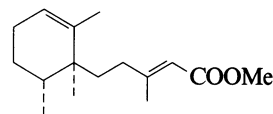
Xu, W. *et al.*, *Yaoxue Xuebao*, 1986, **21**, 177; *CA*, **105**, 21663 (*Hyacinthoside*)

Xu, W.H. *et al.*, *Yaoxue Xuebao*, 1988, **23**, 61; *CA*, **109**, 51701 (*Neohyacinthoside*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, CDG500, SKS000.

Sollasin A**S-10073**

Fulvanin 1
[149297-97-2]

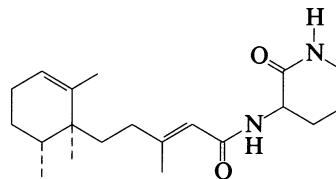


C₁₆H₂₆O₂ M 250.380
Constit. of *Poecillastra sollasi*. Oil. [α]_D²⁴ +12.2° (c, 1 in CHCl₃). Sollasin A and Fulvanin 1 not compared.

Killday, K.B. *et al.*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 500 (*isol, pmr, cmr*)
Casapullo, A. *et al.*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 527 (*isol, pmr, cmr*)

Sollasin B**S-10074**

[149297-98-3]

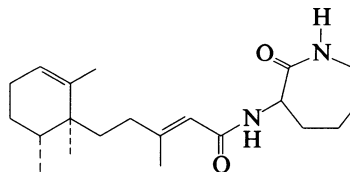


C₂₀H₃₂N₂O₂ M 332.485
Constit. of *Poecillastra sollasi*. Solid. [α]_D²⁴ +29.8° (c, 2.14 in CHCl₃).

Killday, K.B. *et al.*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 500 (*isol, pmr, cmr*)

Sollasin C**S-10075**

[149297-99-4]

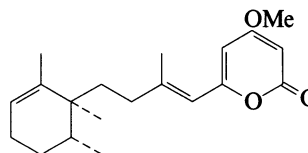


C₂₁H₃₄N₂O₂ M 346.512
Constit. of *Poecillastra sollasi*. Oil. [α]_D²⁴ +10° (c, 1.26 in CHCl₃).

Killday, K.B. *et al.*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 500 (*isol, pmr, cmr*)

Sollasin D**S-10076**

[149298-00-0]



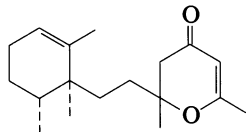
C₂₀H₂₈O₃ M 316.439

Constit. of *Paecillastra sollasi*. Yellow oil. $[\alpha]_D^{24} -22.1^\circ$ (c, 2.13 in CHCl_3).

Killday, K.B. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 500 (*isol*, *pmr*, *cmr*)

Sollasin E**S-10077**

[149298-01-1]



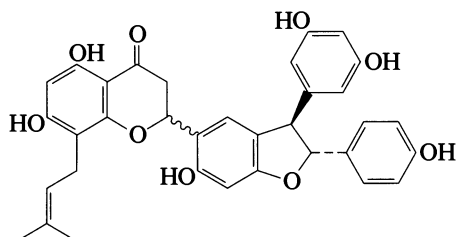
$\text{C}_{18}\text{H}_{28}\text{O}_2$ M 276.418

Constit. of *Paecillastra sollasi*. Oil. $[\alpha]_D^{24} +57.6^\circ$ (c, 0.75 in CHCl_3).

Killday, K.B. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 500 (*isol*, *pmr*, *cmr*)

Sophoraflavanone H**S-10078**

[136997-68-7]



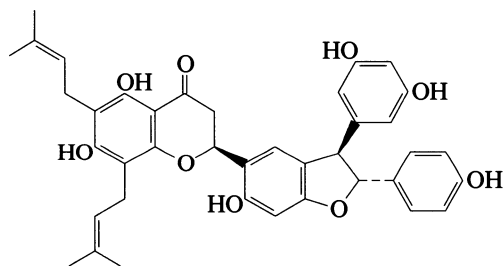
$\text{C}_{34}\text{H}_{30}\text{O}_9$ M 582.606

Constit. of the roots of *Sophora moorcroftiana*. Yellow powder + $1\text{H}_2\text{O}$ (C_6H_6). Mp 158-162° dec. $[\alpha]_D^{22} -114^\circ$ (c, 1 in MeOH).

Shirataki, Y. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1568 (*isol*)

Sophoraflavanone J**S-10079**

[136997-70-1]



$\text{C}_{39}\text{H}_{38}\text{O}_9$ M 650.724

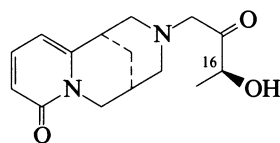
Constit. of the roots of *Sophora moorcroftiana*. Yellow solid + $1\frac{1}{2}\text{H}_2\text{O}$ (MeOH). $[\alpha]_D^{22} -75^\circ$ (c, 1 in MeOH).

Shirataki, Y. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1568 (*isol*)

Sophorasine A**S-10080**

1,2,3,4,5,6-Hexahydro-3-(3-hydroxy-2-oxobutyl)-1,5-methano-8H-pyrido[1,2-a][1,5]diazocin-8-one, 9CI

[135091-04-2]



$\text{C}_{15}\text{H}_{20}\text{N}_2\text{O}_3$ M 276.335

Alkaloid from the leaves of *Sophora griffithii* (Leguminosae). Amorph. solid. $[\alpha]_D^{26} -137^\circ$ (c, 0.02 in MeOH).

16-Epimer: [135213-47-7]. **Sophorasine B**

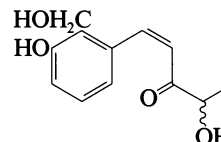
$\text{C}_{15}\text{H}_{20}\text{N}_2\text{O}_3$ M 276.335

Alkaloid from the leaves of *S. griffithii* (Leguminosae). Amorph. solid. $[\alpha]_D^{26} -136.7^\circ$ (c, 0.02 in MeOH).

Atta-ur-Rahman, *et al*, *Phytochemistry*, 1991, **30**, 1001 (*isol*)

Sordariolone**S-10081**

[125092-39-9]



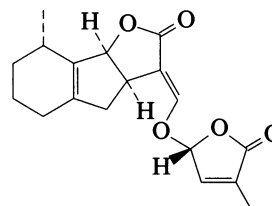
$\text{C}_{12}\text{H}_{14}\text{O}_4$ M 222.240

Isol. from *Sordaria macrospora*. Amorph. powder. Possible artifact.

Bouillant, M.L. *et al*, *Z. Naturforsch., C*, 1989, **44**, 719 (*isol*)

Sorgalactone**S-10082**

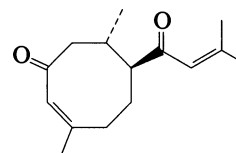
[141262-39-7]



$\text{C}_{18}\text{H}_{20}\text{O}_5$ M 316.353

Isol. from the roots of *Sorghum bicolor* (genuine host plant for *Striga* spp.). Germination stimulant for parasites. Similar to Strigol, S-01447.

Hauck, C. *et al*, *J. Plant Physiol.*, 1992, **139**, 474 (*isol*, *pmr*, *ir*, *ms*)

Spartidienedione**S-10083**

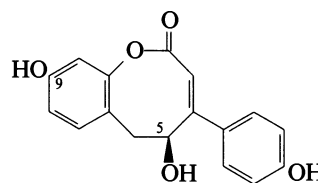
$\text{C}_{15}\text{H}_{22}\text{O}_2$ M 234.338

Constit. of *Baccharis spartioides*. Oil. $[\alpha]_D^{25} -37.4^\circ$ (c, 1.63 in CHCl_3).

Norte, M. *et al*, *Tetrahedron Lett.*, 1993, **34**, 5143 (*isol*, *pmr*, *cmr*)

Specionin†**S-10084**

[126643-17-2]



$\text{C}_{17}\text{H}_{14}\text{O}_5$ M 298.295

Constit. of *Ononis speciosa*.

Tri-Ac: $[\alpha]_D^{25} -7.2^\circ$ (c, 0.84 in CHCl_3).

5-O- β -D-Glucopyranoside: [126617-61-6]. **Specioside A**

$\text{C}_{23}\text{H}_{24}\text{O}_{10}$ M 460.437

Constit. of *O. speciosa*.

9-O- β -D-Glucopyranoside: [126589-95-5]. **Specioside B**

$\text{C}_{23}\text{H}_{24}\text{O}_{10}$ M 460.437

Constit. of *O. speciosa*.

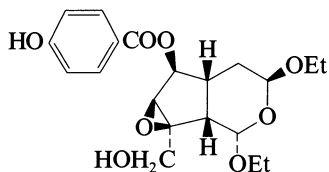
Barrero, A.E. *et al*, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 1334 (*isol*, *pmr*, *cmr*)

Specionin†

S-10085

Updated Entry replacing S-00965

[96944-53-5]



$\text{C}_{20}\text{H}_{26}\text{O}_8$ M 394.421

Isol. from leaves of *Catalpa speciosa*. Antifeedant against Eastern spruce budworm. Oil. $[\alpha]_D -30.7^\circ$ (c, 0.8 in CHCl_3). Struct. revised in 1985.

[87946-74-5]

Van der Eycken, E. *et al*, *Tetrahedron Lett.*, 1985, **26**, 367; 1987, **28**, 3519 (*isol*, *synth*)

Van der Eycken, E. *et al*, *Tetrahedron*, 1986, **19**, 5385 (*synth*, *struct*)

Curran, D. *et al*, *J. Am. Chem. Soc.*, 1987, **109**, 5280 (*synth*)

Hussain, N. *et al*, *Tetrahedron Lett.*, 1987, **28**, 4871 (*synth*)

Whitesell, J.K. *et al*, *J. Am. Chem. Soc.*, 1988, **110**, 3585 (*synth*)

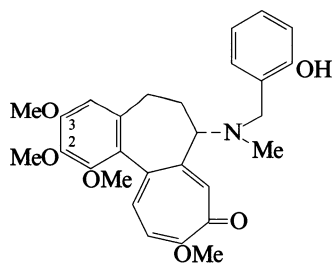
Leonard, J. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1994, 61 (*synth*)

Speciosine

S-10086

Updated Entry replacing S-00967

[16892-03-8]



$\text{C}_{28}\text{H}_{31}\text{NO}_6$ M 477.556

▷ DF9485000.

(S)-form

Alkaloid from the tubers of *Colchicum speciosum* (Liliaceae). Yellow prisms ($\text{C}_6\text{H}_6/\text{Me}_2\text{CO}$). Mp 209-211°. $[\alpha]_D^{20} -21.2^\circ$ (c, 1.75 in CHCl_3).

Deoxy: [97763-01-4]. **Speciosamine**

$\text{C}_{28}\text{H}_{31}\text{NO}_5$ M 461.557

Alkaloid from *C. speciosum* (Liliaceae). Mp 192-194°.

$[\alpha]_D -42^\circ$ (c, 0.26 in CHCl_3).

2-O-*De-Me*: [111509-13-8]. **Speciocolchine**

$\text{C}_{27}\text{H}_{29}\text{NO}_6$ M 463.529

Alkaloid from *C. ritchii* (Liliaceae). Amorph. $[\alpha]_D -37^\circ$ (c, 0.13 in MeOH).

3-O-*De-Me*: [111509-12-7]. **Specioritchine**

$\text{C}_{27}\text{H}_{29}\text{NO}_6$ M 463.529

Alkaloid from *C. ritchii* (Liliaceae). Amorph. $[\alpha]_D -57^\circ$ (c, 0.11 in MeOH).

10-O-*De-Me*: Specioseine

$\text{C}_{27}\text{H}_{29}\text{NO}_6$ M 463.529

Minor alkaloid from *C. speciosum* (Liliaceae). Cryst. (Me_2CO). Mp 169-171°. $[\alpha]_D -78^\circ$ (c, 1.01 in CHCl_3).

Kiselev, V.V., *Zh. Obshch. Khim.*, 1956, **26**, 3218; *CA*, **51**, 8119i (*isol*)

Ramage, R., *Tetrahedron*, 1971, **27**, 1499 (*ir*, *uv*, *ms*, *pmr*, *struct*, *synth*)

Hrbek, J. *et al*, *Collect. Czech. Chem. Commun.*, 1982, **47**, 2258 (*cd*)

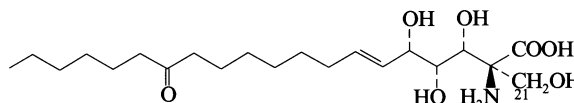
Chommadov, B. *et al*, *Khim. Prir. Soedin.*, 1985, **21**, 417; 1991, **27**, 253; *Chem. Nat. Compd. (Engl. Transl.)*, 394; 218 (*Speciosamine*, *Specioseine*)

Freyer, A.J. *et al*, *J. Nat. Prod. (Lloydia)*, 1987, **50**, 684 (*Speciocolchine*, *Specioritchine*)

Spingofungin E

S-10087

[145401-47-4]



$\text{C}_{21}\text{H}_{39}\text{NO}_7$ M 417.542

Config. not confirmed. Prod. by *Paecilomyces variotii*.

Serinepalmitoyl transferase inhibitor. Antifungal agent.

21-*Deoxy*: [145401-48-5]. **Spingofungin F**

$\text{C}_{21}\text{H}_{39}\text{NO}_6$ M 401.542

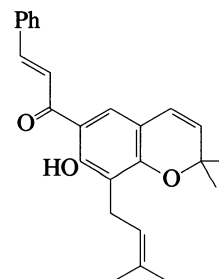
Prod. by *P. variotii*. Serinepalmitoyl transferase inhibitor. Antifungal agent.

Horn, W.S. *et al*, *J. Antibiot.*, 1992, **45**, 1692 (*isol*, *pmr*, *cmr*, *struct*)

Spinochalcone C

S-10088

[146959-79-7]



$\text{C}_{25}\text{H}_{26}\text{O}_3$ M 374.479

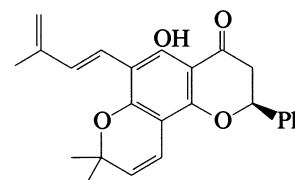
Constit. of *Tephrosia spinosa*. Yellow oil.

Venkata Rao, E. *et al*, *Phytochemistry*, 1993, **32**, 183 (*isol*)

Spinoflavanone A

S-10089

[146959-80-0]



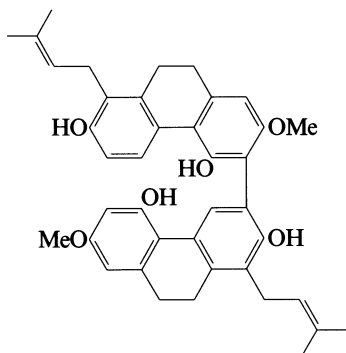
$\text{C}_{25}\text{H}_{24}\text{O}_4$ M 388.462

Constit. of *Tephrosia spinosa*. Yellow needles. Mp 146-148°. $[\alpha]_D^{25} -91.3^\circ$.

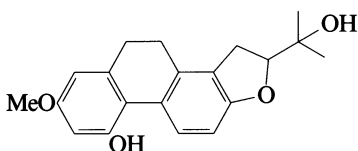
Venkato Rao, E. *et al*, *Phytochemistry*, 1993, **32**, 183 (*isol*, *pmr*)

Spiranthesol

[125263-69-6]

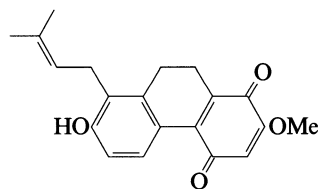
 $C_{40}H_{42}O_6$ M 618.768Constit. of *Spiranthes sinensis* var. *amoena*. Amorph. solid.
Opt. inactive.Tazuka, Y. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 629 (*isol*, *pmr*, *cmr*, *struct*)**Spiranthol C**

[128321-91-5]

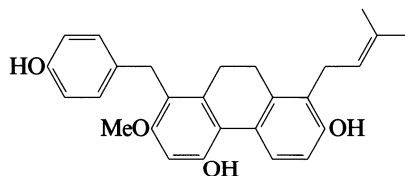
 $C_{20}H_{22}O_4$ M 326.391Constit. of *Spiranthes sinensis* var. *amoena*. Amorph. solid.
Opt. inactive.Tezuka, Y. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 629 (*isol*, *pmr*, *cmr*, *struct*)**Spiranthoquinone****S-10092**

9,10-Dihydro-7-hydroxy-2-methoxy-8-(3-methyl-2-butenyl)-1,4-phenanthrene-1,4-dione, 9CI. 9,10-Dihydro-7-hydroxy-2-methoxy-8-prenyl-1,4-phenanthraquinone

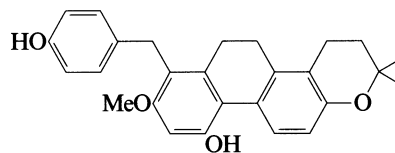
[128321-90-4]

 $C_{20}H_{20}O_4$ M 324.376Constit. of *Spiranthes sinensis* var. *amoena*. Fine red needles (CH_2Cl_2). Mp 150-151°.Tezuka, Y. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 629 (*isol*, *pmr*, *cmr*, *struct*)**Spirasineol A**

[126192-37-8]

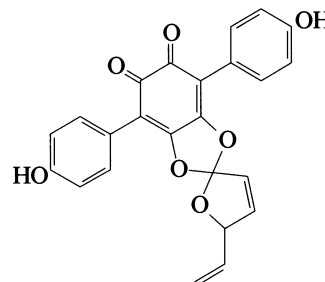
**S-10093** $C_{27}H_{28}O_4$ M 416.516Constit. of *Spiranthes sinensis* var. *amoena*. Cryst. + $\frac{1}{2}H_2O$ (pet. ether). Mp 165-167.5°.Tezuka, Y. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 3195 (*isol*, *pmr*, *cmr*)**Spirasineol B**

[128321-92-6]

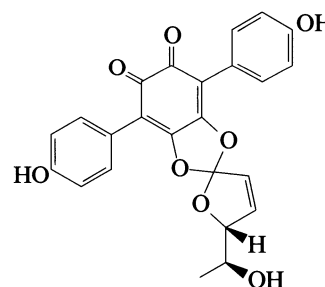
 $C_{27}H_{28}O_4$ M 416.516Constit. of *Spiranthes sinensis* var. *amoena*. Amorph. solid.Tezuka, Y. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 629 (*isol*)**S-10094****Spiromentin A**

5'-Ethylidene-4,7-bis(4-hydroxyphenyl)spiro[1,3-benzodioxole-2,2'(5'H)-furan]-5,6-dione, 9CI

[121254-53-3]

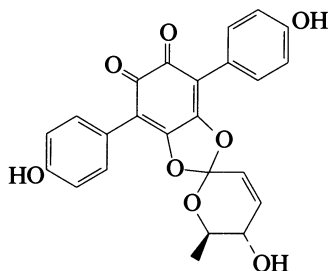
S-10095 $C_{24}H_{16}O_7$ M 416.386Constit. of the toadstools *Paxillus atrotomentosus* and *P. panuoides*. Violet cryst.Besl, H. *et al*, *Justus Liebigs Ann. Chem.*, 1989, 803 (*isol*, *pmr*, *cmr*, *struct*)**Spiromentin B**

[121254-56-6]

S-10096 $C_{24}H_{18}O_8$ M 434.401Constit. of the toadstools *Paxillus atrotomentosus* and *P. panuoides*. Violet solid.Besl, H. *et al*, *Justus Liebigs Ann. Chem.*, 1989, 803 (*isol*, *pmr*, *cmr*, *struct*)

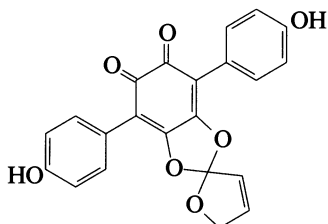
Spiromentin C

[121254-57-7]

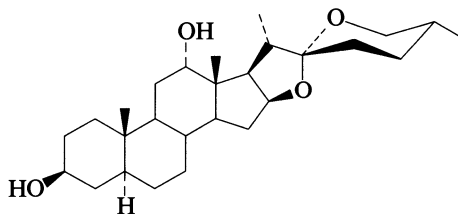
 $C_{24}H_{18}O_8$ M 434.401Constit. of the toadstools *Paxillus atrotomentosus* and *P. panuoides*. Violet solid.Besl, H. *et al*, *Justus Liebigs Ann. Chem.*, 1989, 803 (*isol*, *pmr*, *cmr*, *struct*)**Spiromentin D**

4,7-Bis(4-hydroxyphenyl)spiro[1,3-benzodioxole-2,2'(5'H)-furan]-5,6-dione, 9CI

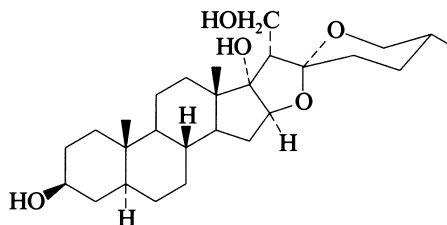
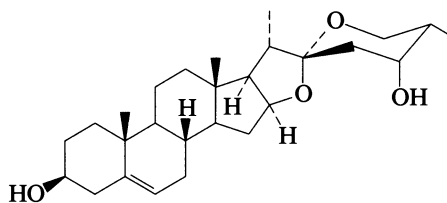
[121254-58-8]

 $C_{22}H_{14}O_7$ M 390.348Constit. of the toadstools *Paxillus atrotomentosus* and *P. panuoides*. Violet solid.Besl, H. *et al*, *Justus Liebigs Ann. Chem.*, 1989, 803 (*isol*, *pmr*, *cmr*, *struct*)**Spirostane-3,12-diol**

Updated Entry replacing S-01071

 $C_{27}H_{44}O_4$ M 432.642**(3 β ,5 α ,12 α ,25R)-form** [545-77-7] **12-Epirockogenin**. 12-epi-RockogeninConstit. of *Agave sisalana*. Cryst. (MeOH). Mp 218-220° (214-217°). $[\alpha]_D^{25} -42.1^\circ$ (CHCl₃).*Di-Ac*: [10007-75-7]. $C_{31}H_{48}O_6$ M 516.717Mp 156-159°. $[\alpha]_D^{23} -15^\circ$ (c, 1.0 in Me₂CO).**(3 β ,5 α ,12 β ,25R)-form** [16653-52-4] **Rockogenin**. RocogeninConstit. of *A. americana*, *A. gracilipes* and *Yucca gloriosa*. Cryst. (MeOH), needles (Me₂CO). Mp 218-220° (208-210°).*Di-Ac*: [10007-76-8].

Mp 204-206°.

S-10097**(3 β ,5 α ,12 β ,25S)-form** [90457-38-8] **Dihydrochiapagenin**Cryst. (MeOH aq.). Mp 194-196°, Mp 204-205° (double Mp). $[\alpha]_D -79^\circ$ (c, 1.1 in CHCl₃).*12-Ac*: $C_{29}H_{46}O_5$ M 474.679Cryst. (hexane/C₆H₆). Mp 213-214°. $[\alpha]_D -84^\circ$ (c, 0.3 in CHCl₃).*Di-Ac*: Cryst. (MeOH). Mp 204-205°. $[\alpha]_D -76^\circ$ (c, 0.6 in CHCl₃).**3,12-Diketone**: [32101-23-8]. **Spirostane-3,12-dione**.**Sisalagenone** $C_{27}H_{40}O_4$ M 428.611Constit. of *Solanum torrum*.**(3 β ,5 β ,12 β ,25R)-form** [38673-26-6] **12 β -Hydroxysmilagenin**Constit. of *Y. gloriosa*. Cryst. (Me₂CO). Mp 233-235°. $[\alpha]_D -62.3^\circ$ (c, 0.27 in CHCl₃).Hirschman, R.F. *et al*, *J. Am. Chem. Soc.*, 1952, **74**, 2693; 1954, **76**, 4013.Elks, J. *et al*, *J. Chem. Soc.*, 1954, 1739 (*synth*, *ir*)Harrison, I.T. *et al*, *J. Org. Chem.*, 1961, **26**, 155 (*synth*,**3 β ,5 α ,12 β ,25S)-form**)Kabasakalian, P. *et al*, *J. Org. Chem.*, 1961, **26**, 1738 (*synth*,**3 β ,5 α ,12 β ,25R)-form**)Nussim, M. *et al*, *J. Org. Chem.*, 1964, **29**, 1120 (*synth*,**3 β ,5 α ,12 α ,25R)-form**)Ricca, G.S. *et al*, *Gazz. Chim. Ital.*, 1969, **99**, 1284 (*pmr*)Morales, M. *et al*, *Rev. Latinoam. Quim.*, 1970, **1**, 1 (*Sisalagenone*)González, A.G. *et al*, *An. Quim.*, 1972, **68**, 309 (*isol*)García, J.A.R. *et al*, *Magn. Reson. Chem.*, 1987, **25**, 831 (*cmr*)**Spirostane-3,17,21-triol****S-10100** $C_{27}H_{44}O_5$ M 448.642**(3 β ,5 α ,25R)-form**3-O-[α -L-Arabinopyranosyl-(1 \rightarrow 3)[α -L-rhamnopyranosyl-(1 \rightarrow 2)]- β -D-glucopyranoside]: [125456-47-5].**Pardarinoside E** $C_{44}H_{72}O_{18}$ M 889.042Constit. of the bulbs of *Lilium pardarinum*. Amorph. powder. $[\alpha]_D^{22} -42.5^\circ$ (c, 0.37 in MeOH).Shimomura, H. *et al*, *Phytochemistry*, 1989, **28**, 3163 (*isol*)**Spirost-5-ene-3,24-diol****S-10101** $C_{27}H_{42}O_4$ M 430.626**(3 β ,24R,25S)-form**3-O-Neohesperidoside: [126453-84-7]. **Pingpeisaponin** $C_{39}H_{62}O_{13}$ M 738.911Constit. of *Fritillaria ussuriensis*.Xu, D. *et al*, *Zhiwu Xuebao*, 1989, **31**, 285; *CA*, **112**, 175573 (*Pingpeisaponin*)

Spirost-5-ene-1,3,25-triol

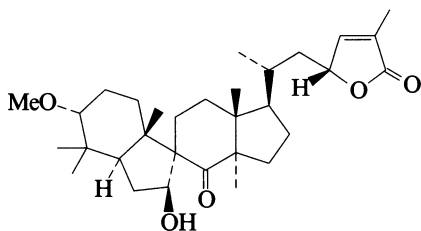
S-10102

Updated Entry replacing S-01119

C₂₇H₄₂O₅ M 446.626**(1β,3β,25S)-form** [51847-95-1] *Isoandroginin A*
Constit. of *Semele androgyna*.**(1β,3β,25R)-form** [51918-96-8] *Isoandroginin B*
From *S. androgyna*.**(1β,3α,25S)-form** [91625-64-8] *Aurantigenin*
Constit. of *Tupistra aurantiaca*.González, A.G. *et al*, *Rev. Latinoam. Quim.*, 1973, **4**, 45.
Yang, R. *et al*, *CA*, 1984, **101**, 107361z (*Aurantigenin*)**Spiroveitchionolide**

S-10103

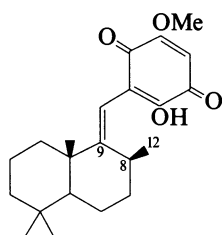
[145356-49-6]

C₃₁H₄₈O₅ M 500.717Constit. of *Abies veitchii*. Cryst. (CHCl₃/MeOH). Mp
239.5-242°. [α]_D²³ -14.2° (c, 0.27 in CHCl₃).Tanaka, R. *et al*, *J. Chem. Soc., Chem. Commun.*, 1992, 1351 (*isol*,
pmr, *cmr*, *cryst struct*)**Spongiaquinone**

S-10104

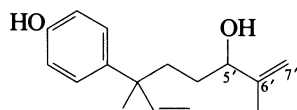
Updated Entry replacing S-01156

[69672-67-9]

C₂₂H₃₀O₄ M 358.477Constit. of *Stelospongia conulata*. Red cryst. (hexane). Mp
159-160°.*9α,11-Dihydro, 8,12-didehydro:*C₂₂H₃₀O₄ M 358.477Constit. of a *Spongia* sp. Yellow oil.Kazlauskas, R. *et al*, *Aust. J. Chem.*, 1978, **31**, 2685.Capon, R.J. *et al*, *Aust. J. Chem.*, 1993, **46**, 1245 (*deriv*)**Sporochnol C**

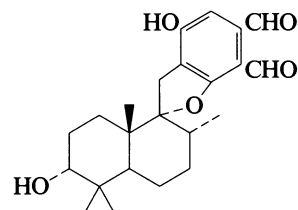
S-10105

[147821-61-2]

C₁₆H₂₂O₂ M 246.349Constit. of *Sporochnos bolleanus*. Pale yellow gum.*6',7'-Epoxide*: [147821-60-1]. **Sporochnol B**C₁₆H₂₂O₃ M 262.348Constit. of *S. bolleanus*. Pale yellow gum.*5'-Deoxy, Δ⁵-Isomer*: [147821-59-8]. **Sporochnol A**C₁₆H₂₂O M 230.349Isol. from *S. bolleanus*. Amorph. solid. [α]_D +10° (c, 1
in CHCl₃).Shen, Y.-C. *et al*, *Phytochemistry*, 1993, **32**, 71 (*isol*, *pmr*, *cmr*)**Stachybotrydial**

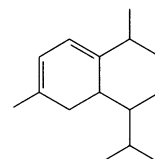
S-10106

[149598-70-9]

C₂₃H₃₀O₅ M 386.487Metab. of *Stachybotrys cylindrospora*. Amorph. solid (as
di-Ac). [α]_D -69° (c, 0.063 in CHCl₃) (di-Ac).Ayer, W.A. *et al*, *Can. J. Chem.*, 1993, **71**, 487 (*isol*, *pmr*, *cmr*)**Stachynene**

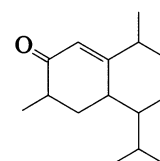
S-10107

[99223-33-3]

C₁₅H₂₄ M 204.355Constit. of *Stachys* spp.Maly, E. *et al*, *J. Chromatogr.*, 1985, **333**, 288 (*isol*)**Stachynone**

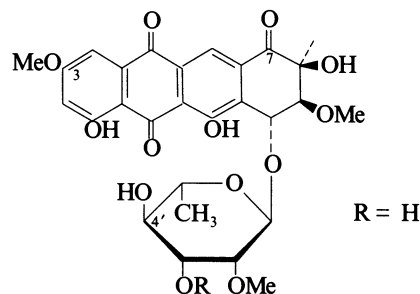
S-10108

[99223-32-2]

C₁₅H₂₄O M 220.354Constit. of *Stachys* spp. Cryst. Mp 54-55°. [α]_D²² -2.45°
(CCl₄).Maly, E. *et al*, *J. Chromatogr.*, 1985, **333**, 288 (*isol*)**Steffimycin, INN, USAN**

S-10109

Updated Entry replacing S-01215

Steffisburgensimycin. U 20661. Antibiotic U 20661
[11033-34-4]

R = H

C₂₈H₃₀O₁₃ M 574.537

Anthracycline antibiotic. Isol. from *Streptomyces steffisburgensis*, *S. elgreteus* and *Actinoplanes utahensis*. Antibacterial and antitumor agent. Orange-yellow cryst. Mp 257-265°. [α]_D²⁵ + 85° (c, 0.05 in MeOH). Shows opposite stereochem. to most anthracyclines.

▷ QI9456000.

4'-Me ether: [54526-94-2]. **Steffimycin B**. U 40615.

Antibiotic U 40615

C₂₉H₃₂O₁₃ M 588.564

Isol. from *S. elgreteus*. Antibacterial and antitumor agent. Orange cryst. Mp 240-246°. [α]_D²⁵ + 94° (c, 1 in CHCl₃).

▷ QI9450000.

7-Alcohol: [75086-96-3]. 10-Dihydrosteffimycin

C₂₈H₃₂O₁₃ M 576.553Semisynthetic. Cryst. (Me₂CO). Mp 253-255°.

7-Alcohol, 4'-Me ether: [75086-97-4]. 10-Dihydrosteffimycin B

C₂₉H₃₄O₁₃ M 590.580Semisynthetic. Cryst. (Me₂CO). Mp 245-248°.7-Deoxo: [132354-06-4]. **Steffimycin D**C₂₈H₃₂O₁₂ M 560.554From *S. sp.* Collagenase inhibitor.7-Deoxo, 4'-Me ether: [98813-22-0]. **Steffimycin C**C₂₉H₃₄O₁₂ M 574.580

From *S. elgreteus*. Only active against *Streptococcus pneumoniae*. Orange cryst.

7-Deoxo, O³-de-Me: [132354-18-8]. **Demethylsteffimycin**C₂₇H₃₀O₁₂ M 546.527From *S. sp.* Orange powder.Aglycone: [57847-74-2]. **Steffimycinone**. 2-**Demethoxyaranciamycinone**C₂₁H₁₈O₉ M 414.368

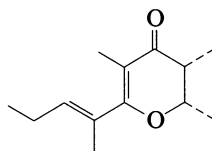
Active against mycobacteria.

[91310-99-5, 91382-92-2]

Bergy, M.E. *et al*, *Experientia*, 1967, **23**, 254 (*isol*)Brodasky, T.F. *et al*, *J. Antibiot.*, 1974, **27**, 809 (*isol, uv, ir, pmr, cmr, ms, struct*)Vaněk, Z. *et al*, *Folia Microbiol. (Prague)*, 1977, **22**, 139 (*biosynth, struct, pmr, cmr, ms*)Wiley, P.F. *et al*, *J. Org. Chem.*, 1977, **42**, 3591; 1978, **43**, 3457 (*Steffimycin B*)Wiley, P.F. *et al*, *J. Antibiot.*, 1980, **33**, 819 (*isol, uv, ir, pmr, cmr*)Krohn, K. *et al*, *J. Org. Chem.*, 1984, **49**, 3766 (*config*)Brodasky, T.F. *et al*, *J. Antibiot.*, 1985, **38**, 849 (*Steffimycin C*)Suzukake-Tsuchiya, K. *et al*, *J. Antibiot.*, 1990, **43**, 1489 (*Steffimycin D*)**Stegobiene****S-10110**

2,3-Dihydro-2,3,5-trimethyl-6-(1-methyl-1-butenyl)-4H-pyran-4-one, 9CI

[132215-98-6]

C₁₃H₂₀O₂ M 208.300Constit. of the drugstore beetle *Stegobium paniceum*.

Pheromone mimic.

[106022-47-3]

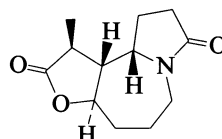
Chuman, T., *CA*, 1991, **114**, 96679.**Stellin C****S-10111**

[142847-28-7]

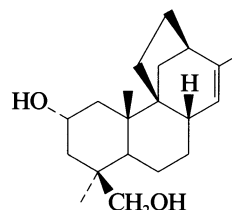
H-Arg-Arg-Arg-Arg-His-Ala-Ser-Thr-Lys-Leu-Lys-Arg-Arg-Arg-Arg-Arg-Arg-His-Gly-Lys-Lys-Ser-His-Lys-OH

Isol. from the gonads of *Acipenser stellatus*.Rybin, V.K. *et al*, *Khim. Prir. Soedin.*, 1991, **27**, 590; *Chem. Nat. Compd. (Engl. Transl.)*, 518.**Stemoamide****S-10112**

[142905-25-7]

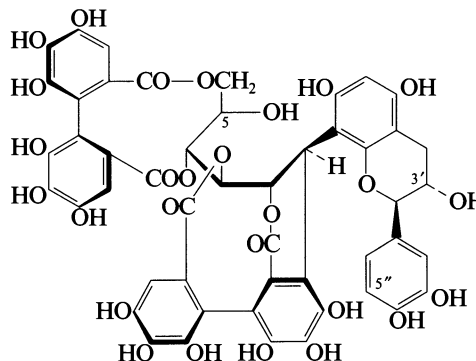


Relative configuration

C₁₂H₁₇NO₃ M 223.271Alkaloid from roots of *Stemona tuberosa* (Stemonaceae).Amorph. [α]_D^{21.6} - 28.1° (c, 0.125 in MeOH).Lin, W.-H. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 571 (*isol, ir, pmr, cmr, ms, struct*)**13-Stemodene-2,19-diol****S-10113**C₂₀H₃₂O₂ M 304.472**3 α -form [143437-61-0] Oryzalexin S**Constit. of rice plants infected with *Pyricularia oryzae*.Cryst. Mp 173°. [α]_D^{26.5} + 32° (c, 1 in CHCl₃).Kodama, O. *et al*, *Biosci., Biotechnol., Biochem.*, 1992, **56**, 1002 (*isol, pmr, cmr*)Tomogami, S. *et al*, *Tetrahedron*, 1993, **49**, 2025 (*isol, pmr, cmr*)**Stenophyllanin C****S-10114**

Updated Entry replacing S-01259

[97775-90-1]

C₄₉H₃₆O₂₇ M 1056.807Tannin from *Quercus stenophylla*. Off-white amorph. powder + 2½ H₂O. [α]_D²¹ + 80.7° (c, 1.3 in MeOH).5-O-(3,4,5-Trihydroxybenzoyl): [97775-88-7]. **Stenophyllanin A**

$C_{56}H_{40}O_{31}$ M 1208.913

From *Q. stenophylla*. Amorph. powder. $[\alpha]_D^{28} + 48.1^\circ$ (c, 1.2 in MeOH).

3'-Epimer: [138256-93-6]. **Camelliatannin A**

$C_{49}H_{36}O_{27}$ M 1056.807

Isol. from leaves of *Camellia japonica*. Off-white powder + 7H₂O. $[\alpha]_D^{20} + 68^\circ$ (c, 1.2 in MeOH).

5-(3,4,5-Trihydroxybenzoyl), 5''-hydroxy: [145826-24-0].

Guajavin A

$C_{56}H_{40}O_{32}$ M 1224.913

Constit. of the bark of *Psidium guajava*. Pale brown powder + 6H₂O. $[\alpha]_D^{19} + 73.0^\circ$ (c, 1 in MeOH).

Conformational isomerisation observed.

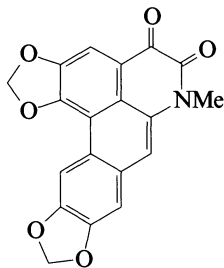
Nonaka, G.-I. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1985, 163 (struct, pmr, cmr)

Nonaka, G.-I. *et al*, *Chem. Pharm. Bull.*, 1990, 38, 2151 (abs config)

Tanaka, T. *et al*, *Chem. Pharm. Bull.*, 1992, 40, 2092 (*Guajavin A*)

Stephadione

[142905-22-4]



$C_{19}H_{11}NO_6$ M 349.299

Alkaloid from aerial parts of *Stephania tetrandra* (Menispermaceae). Amorph. red powder. Mp > 300°.

Si, D.Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, 55, 828 (isol, uv, ir, pmr, ms, struct)

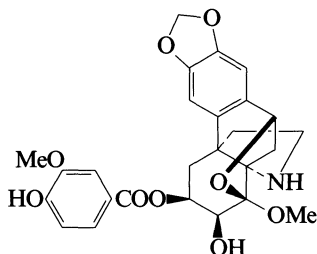
Stephavanine

S-10116

Updated Entry replacing S-01280

8,10-Epoxy-8-methoxy-2,3-[methylenebis(oxy)]hasubanan-6-7-diol 6-(4-hydroxy-3-methoxybenzoate), 9CI

[33116-33-5]



Absolute configuration

$C_{26}H_{27}NO_9$ M 497.501

Alkaloid from rhizomes of *Stephania abyssinica* (Menispermaceae). Mp 229-230° dec. $[\alpha]_D^{32} + 30^\circ$ (c, 0.90 in Py).

B, HCl: Mp 217-218° dec. $[\alpha]_D^{32} + 16^\circ$ (c, 0.73 in MeOH).

B, HBr: Mp 191-192° dec.

N, O, O-Tri-Ac: Mp 189-190°.

7-Trimethylsilyl ether: Mp 201-202° dec.

4'-Me ether: **4'-O-Methylstephavanine**

$C_{27}H_{29}NO_9$ M 511.527

Alkaloid from roots of *S. abyssinica* (Menispermaceae). Amorph. solid. Mp 187-190° dec. $[\alpha]_D^{20} - 4^\circ$ (c, 0.01 in CHCl₃).

N, O, O-Tri-Me: [53111-19-6]. ***N, O, O-Trimethylstephavanine***

$C_{29}H_{33}NO_9$ M 539.581

Alkaloid from *S. abyssinica* (Menispermaceae).

Kupchan, S.M. *et al*, *J. Am. Chem. Soc.*, 1970, 92, 5756 (ms, pmr, struct, cryst struct)

Van Wyk, A.J. *et al*, *J. S. Afr. Chem. Inst.*, 1974, 27, 95 (deriv)

Dagne, E. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, 56, 2022 (4'-O-Methylstephavanine)

Ulex europaeus Sterol

S-10117

$C_{30}H_{50}O$ M 426.724

Struct. unknown. Constit. of the flowers of *Ulex europaeus*. Mp 152-153°.

Schoen, K., *Biochem. J.*, 1936, 30, 1960.

McLean, J. *et al*, *Phytochemistry*, 1963, 2, 179.

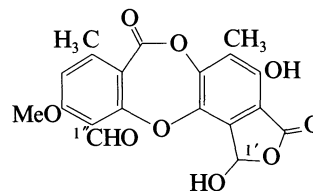
Stictic acid

S-10118

Updated Entry replacing S-01311

1,3-Dihydro-1,4-dihydroxy-10-methoxy-5,8-dimethyl-3,7-dioxo-7H-isobenzofuro[4,5-b][1,4]benzodioxepin-11-carboxaldehyde, 9CI. **Pseudopsoromic acid. Stereocaulonic acid. Stictic acid. Scopularic acid**

[549-06-4]



$C_{19}H_{14}O_9$ M 386.314

Isol. from *Menegazzia terebrata*, *Stereocaulon* spp., *Pseudocyphellaria impressa*, *Ramalina*, *Cladonia* and other lichens. Cryst. (Me₂CO). Mp 268-269° dec.

▷ Contact allergen.

1'-Me ether: [74728-13-5]. **Methylstictic acid. 8'-O-Methylstictic acid**

$C_{20}H_{16}O_9$ M 400.341

Isol. from *Lobaria oregana*. Needles (Me₂CO).

1'-Et ether: [63090-99-3]. **Vesuvianic acid**

$C_{21}H_{18}O_9$ M 414.368

Isol. from *Stereocaulon* spp., possibly an artifact. Cryst. (EtOAc). Mp 245°.

O-De-Me: [571-67-5]. **Norstictic acid. Bryopogonic acid**

$C_{18}H_{12}O_9$ M 372.287

Prod. by *Usnea* spp., *Lobaria* spp., *Pertusaria*, *Pseudocyphellaria* and other lichens. Needles (Me₂CO aq.). Mp 286-287°.

▷ Contact allergen.

1''-Alcohol: **Cryptostictic acid**

$C_{19}H_{16}O_9$ M 388.330

Constit. of the lichen *Lobaria oregana*. Needles (Me₂CO aq.). Mp 242-244° dec.

1''-Deoxy, 1''-alcohol: [74728-15-7]. **Cryptostictinolide**

$C_{19}H_{16}O_8$ M 372.331

Needles (Me₂CO). Mp 275-276° dec.

Briner, G.D. *et al*, *Aust. J. Chem.*, 1960, 13, 277.

Huneck, S. *et al*, *Naturwissenschaften*, 1963, 52, 154; 1964, 51, 536.

Huneck, S. *et al*, *Tetrahedron*, 1968, 24, 2707 (ms)

Huneck, S. *et al*, *Z. Naturforsch., B*, 1968, 23, 717; 1989, 44, 1117 (pmr)

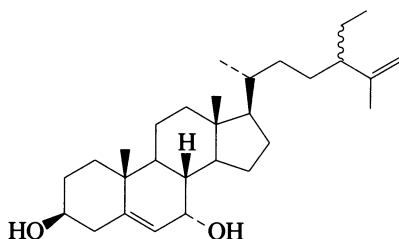
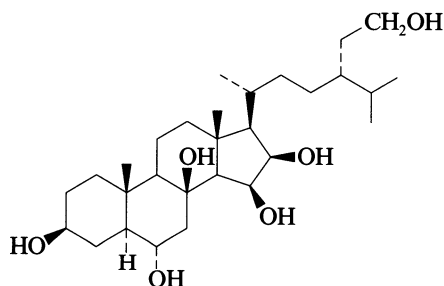
Fox, C.H. *et al*, *Phytochemistry*, 1970, 9, 2057 (isol)

Martinez, E. *et al*, *An. Quim.*, 1972, 68, 1313, 1321.

Huneck, S., *Phytochemistry*, 1972, 11, 1493; 1974, 13, 2305, 2315 (isol)

Fukuyama, K. *et al*, *Bull. Chem. Soc. Jpn.*, 1975, 48, 1639 (cryst struct)

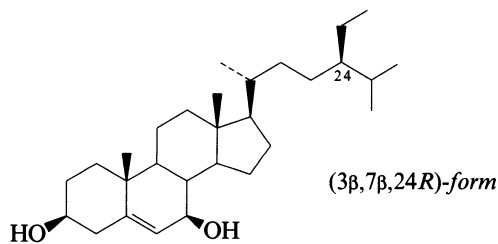
Hirayama, T. *et al*, *Chem. Pharm. Bull.*, 1976, **24**, 2340 (*isol*)
 Thune, P.O. *et al*, *CA*, 1980, **93**, 63143q (*tox*)
 Shimada, S. *et al*, *Phytochemistry*, 1980, **19**, 328 (*Methylstictic acid, Cryptostidic acid*)
 Culberson, C.F. *et al*, *Bryologist*, 1981, **84**, 16; *CA*, **95**, 183213a (*tlc*)
 Sundholm, E.G. *et al*, *Chem. Scr.*, 1981, **18**, 233 (*cmr*)
 Ingoldsdottir, K. *et al*, *Phytochemistry*, 1986, **25**, 550 (*isol, struct, deriv*)

Stigmasta-5,25-diene-3,7-diol**S-10119**C₂₉H₄₈O₂ M 428.697**(3β,7α,24ξ)-form** [151345-06-1] **Decortinol**Constit. of *Codium decorticutum*. Gum.7-Ketone: [151345-08-3]. 3-Hydroxystigmasta-5,25-dien-7-one. **Decortinone**C₂₉H₄₆O₂ M 426.681Constit. of *C. decorticutum*. Gum.**(3β,7β)-form** [151345-07-2] **Isodecortinol**Constit. of *C. decorticutum*. Gum.Ahmad, V.U. *et al*, *Phytochemistry*, 1993, **33**, 1189 (*isol, pmr, cmr*)**Stigmastane-3,6,8,15,16,29-hexol****S-10120**C₂₉H₅₂O₆ M 496.726**(3β,5α,6α,15β,16β,24R)-form**

29-O-(6-O-Sulfo-β-D-glucopyranoside): [131985-14-3].

Pisasteroside FC₃₅H₆₂O₁₄S M 738.932Isol. from the starfish *Pisaster giganteus* (as Na salt).[α]_D +10° (c, 1 in MeOH).Zollo, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 1000.**Stigmast-5-ene-3,7-diol****S-10121**

Updated Entry replacing H-03045

**(3β,7β,24R)-form**C₂₉H₅₀O₂ M 430.713**(3β,7β,24R)-form**Constit. of sponge *Clonia copiosa* and *Corallistes undulatus*.

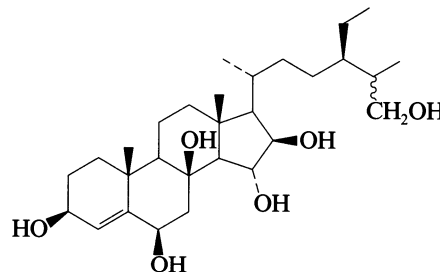
7-Ketone: [2034-74-4]. 3-Hydroxystigmast-5-en-7-one. 7-Oxo-β-sitosterol

C₂₉H₄₈O₂ M 428.697Isol. from bark of *Pinus taeda* and *P. banksiana* and from *Cryptocarya foveolata* also after saponification of *Brassica napus* (rapeseed) and *Glycine max* (soybean) oils. Also found in the sponge *Clonia copiosa*. Prisms (MeOH) or needles (hexane). Mp 165-167°, Mp 129° (synthetic).7-Ketone, 3-Ac: Mp 176° (170°). [α]_D¹⁷ -94° (CHCl₃).**(3β,7β,24S)-form**Isol. from *C. copiosa*.

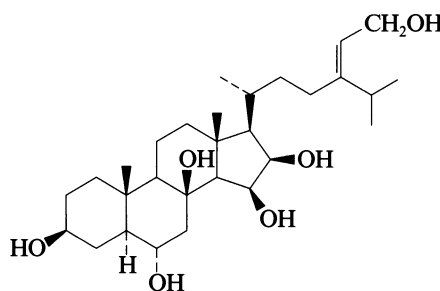
7-Ketone: 3-Hydroxyyporiferast-5-en-7-one

C₂₉H₄₈O₂ M 428.697Constit. of *Gracilaria edulis* and *C. copiosa*. Cryst. Mp 140-141°. [α]_D²⁵ -105.6° (c, 0.23 in CHCl₃).Niewiadowski, H. *et al*, *CA*, 1965, **63**, 13588 (*isol*)Rowe, J.W., *Phytochemistry*, 1965, **4**, 1 (*isol*)Bishara, R.H. *et al*, *J. Nat. Prod. (Lloydia)*, 1970, **33**, 477 (*isol, props*)Notaro, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1588 (*isol, pmr, ms*)Das, B. *et al*, *Phytochemistry*, 1992, **31**, 2427 (3-Hydroxyyporiferast-5-en-7-one)Guerriero, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1962 (*isol, pmr, cmr*)**Stigmast-4-ene-3,6,8,15,16,26-hexol****S-10122**

24-Ethylcholest-4-ene-3,6,8,15,16,26-hexol

C₂₉H₅₀O₆ M 494.710**(3β,6β,15α,16β,25ξ)-form**

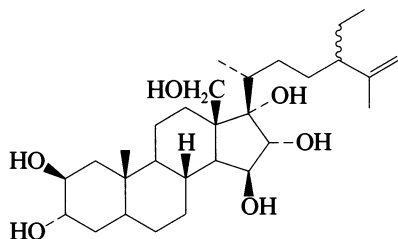
3-O-(2-O-Methyl-β-D-xylopyranoside): [134985-05-0].

Forbeside LC₃₅H₆₀O₁₀ M 640.853Isol. from the starfish *Asterias forbesi*. Powder. Mp 210° dec. [α]_D -7.8° (c, 0.4 in H₂O).Findlay, J.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 428.**Stigmast-24(28)-ene-3,6,8,15,16,29-hexol****S-10123**C₂₉H₅₀O₆ M 494.710

(3 β ,5 α ,6 α ,15 β ,16 β ,24(28)E)-form29-O-(4-O-Sulfo- β -D-xylopyranoside): [123154-35-8].**Pisasteroside C**C₃₄H₅₈O₁₃S M 706.890Isol. from the starfish *Pisaster giganteus* (as Na salt).[α]_D +12° (c, 1 in MeOH).Zollo, F. *et al*, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 693.**Stigmast-25-ene-2,3,15,16,17,18-hexol**

24-Ethylcholest-25-ene-2,3,15,16,17,18-hexol

S-10124

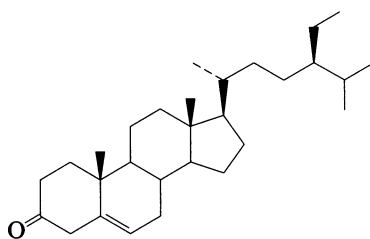
C₂₉H₅₀O₆ M 494.710**(2 β ,3 α ,15 β ,16 α ,17 α ,24 ξ)-form****Echinocasterol**

2-Sulfate:

C₂₉H₅₀O₉S M 574.775Constit. of *Echinoclathria subhispida*. Solid (as phenethylammonium salt). [α]_D +0.3° (c, 0.15 in MeOH).Li, H. *et al*, *Tetrahedron Lett.*, 1993, **34**, 5733 (*isol, pmr, cmr*)**Stigmast-5-en-3-one, 9CI** Δ^5 -Sitosterol-3-one. β -Sitosterone

[51529-11-4]

S-10125

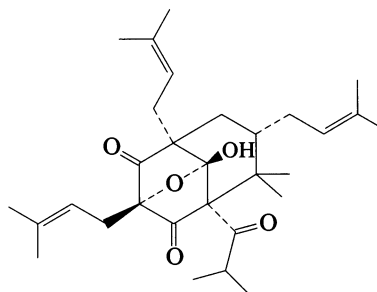
C₂₉H₄₈O M 412.698Constit. of various plant spp. incl. *Euphorbia* sp.,*Gomphrena* sp., *Pieris* sp., *Piptocarpha* sp., *Oxandra* sp.,*Torreya* sp. and *Ormosia major* (infected with fungi).Also found in human faeces. Needles (MeOH/Et₂O).

Mp 94°.

Katai, M. *et al*, *Chem. Pharm. Bull.*, 1983, **31**, 1567 (*isol*)Dayal, B. *et al*, *Steroids*, 1983, **42**, 635 (*synth*)Arango, G.J. *et al*, *Phytochemistry*, 1987, **26**, 2093 (*isol*)Cambie, R.C. *et al*, *Phytochemistry*, 1991, **30**, 287 (*isol*)**Subellinone**

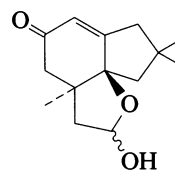
[149725-22-4]

S-10126

C₃₀H₄₄O₅ M 484.675Constit. of *Garcinea subelliptica*. Viscous oil. [α]_D²⁰ -2.8° (c, 1 in EtOH).Fukuyama, Y. *et al*, *Phytochemistry*, 1993, **33**, 483 (*isol, pmr, cmr*)**Sulcatine F**

[147515-44-4]

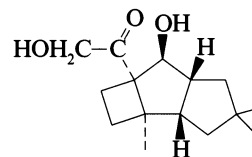
S-10127

C₁₄H₂₀O₃ M 236.310Metab. of *Laurilia sulcata*. Oil. [α]_D +2.8° (c, 0.1 in CHCl₃).

[147455-45-6]

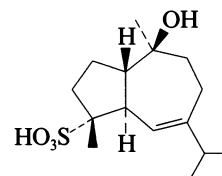
Arnone, A. *et al*, *Gazz. Chim. Ital.*, 1992, **122**, 421 (*isol, pmr, cmr*)**Sulcatine G**

S-10128

C₁₅H₂₄O₃ M 252.353Metab. of *Laurilia sulcata*. Oil. [α]_D +44.5° (c, 0.15 in CHCl₃).Arnone, A. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1993, 2723 (*isol, pmr, cmr*)**Sulfoorientalol A**

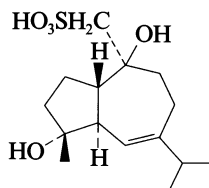
[151171-36-7]

S-10129

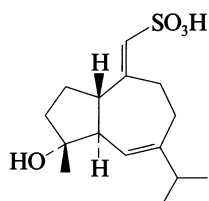
C₁₅H₂₆O₄S M 302.434Constit. of *Alisma orientale* root. Powder.Yoshikawa, M. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 1194 (*isol, pmr, cmr*)

Sulfoorientalol B

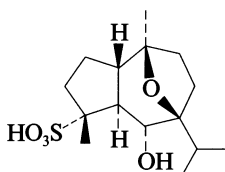
[151171-38-9]

 $C_{15}H_{26}O_5S$ M 318.433Constit. of *Alisma orientale* root. Powder.Yoshikawa, M. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 1194 (*isol*, *pmr*, *cmr*)**Sulfoorientalol C**

[150975-27-2]

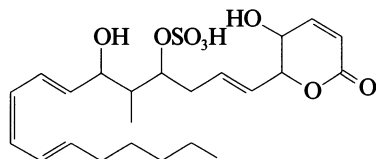
 $C_{15}H_{24}O_4S$ M 300.418Constit. of *Alisma orientale* root. Powder.Yoshikawa, M. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 1194 (*isol*, *pmr*, *cmr*)**Sulfoorientalol D**

[151171-37-8]

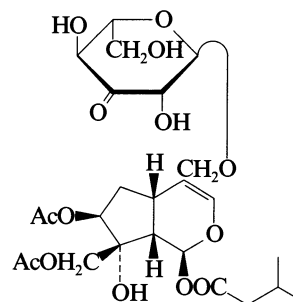
 $C_{15}H_{26}O_5S$ M 318.433Constit. of *Alisma orientale* root. Powder.Yoshikawa, M. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 1194 (*isol*, *pmr*, *cmr*)**Sultricin**

BU 3285T. Antibiotic BU 3285T

[131774-59-9]

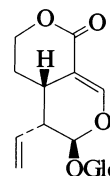
 $C_{23}H_{34}O_8S$ M 470.583Prod. by *Streptomyces roseiscleroticus*. Antifungal and antitumour agent. Powder (as Na salt). Mp 123-125° (as Na salt). $[\alpha]_D^{24} + 23^\circ$ (c, 1 in MeOH).Ohkuma, H. *et al*, *J. Antibiot.*, 1992, **45**, 1239 (*isol*, *pmr*, *cmr*, *ir*, *props*)**S-10130****Suspensolide C**

[125002-75-7]

 $C_{25}H_{36}O_{14}$ M 560.551Constit. of *Viburnum suspensum*. Amorph. powder. $[\alpha]_D$ -50° (c, 1 in MeOH).Iwagawa, T. *et al*, *Phytochemistry*, 1989, **28**, 2393 (*isol*, *pmr*, *cmr*)**S-10131****Sweroside**

Updated Entry replacing S-01575

[14215-86-2]

 $C_{16}H_{22}O_9$ M 358.344Constit. of *Swertia japonica*. Powder. $[\alpha]_D^{26} - 236^\circ$ (H₂O).

2'-O-(3,3'-Dihydroxy-2-biphenylcarboxylate): [52811-25-3].

Amaroparinin. Deoxyamarogentin $C_{29}H_{30}O_{12}$ M 570.549Constit. of roots of *Gentiana pannonica*. Mp 178°. $[\alpha]_D^{26} - 101.25^\circ$ (c, 0.47 in MeOH).2'-O-(3,3',5-Trihydroxy-2-biphenylcarboxylate): [21018-84-8]. **Amarogentin** $C_{29}H_{30}O_{13}$ M 586.548Isol. from *G.* sp. and *S. japonica*. V. bitter substance.Mp 229-230°. $[\alpha]_D^{20} - 116.6^\circ$ (MeOH).

4'-O-(2-Hydroxy-3-glucosyloxybenzoyl), 2',3',6'-tri-Ac:

[53823-10-2]. **Trifloroside** $C_{35}H_{42}O_{20}$ M 782.705Constit. of *G. triflora* var. *japonica*. Amorph. $[\alpha]_D^{28} - 122.8^\circ$ (c, 0.52 in MeOH).2'-O-(3-Hydroxybenzoyl), 3'-Ac: [59193-73-6]. **Centapicrin** $C_{25}H_{28}O_{12}$ M 520.489Constit. of *Erythraea centaurium*. Cryst. Mp 234-237°. $[\alpha]_D^{28} - 213^\circ$ (c, 0.5 in Py).2'-O-(3-Hydroxybenzoyl): **Desacetylcentapicrin** $C_{23}H_{26}O_{11}$ M 478.452Constit. of *Centaurium erythraea*. Amorph.3'-O-(3-Hydroxybenzoyl): [77533-68-7]. **Decentapicrin A** $C_{23}H_{26}O_{11}$ M 478.452Constit. of *C. erythraea*. Amorph. $[\alpha]_D - 203^\circ$ (MeOH).4'-O-(3-Hydroxybenzoyl): [77533-67-6]. **Decentapicrin B** $C_{23}H_{26}O_{11}$ M 478.452Constit. of *C. erythraea*. Amorph. $[\alpha]_D - 211^\circ$ (MeOH).6'-O-(3-Hydroxybenzoyl): [77533-66-5]. **Decentapicrin C** $C_{23}H_{26}O_{11}$ M 478.452Constit. of *C. erythraea*. Amorph. $[\alpha]_D - 192^\circ$ (MeOH).3'-Ac: **3'-Acetylsweroside** $C_{18}H_{24}O_{10}$ M 400.382Constit. of *G. formosana*. Oil. $[\alpha]_D^{25} - 126.1^\circ$ (c, 1.05 in MeOH).**S-10134****S-10135**

- Inoye, H. *et al*, *Tetrahedron Lett.*, 1966, 5229; 1967, 3221; 1968, 4429 (*isol, biosynth, struct*)
 Inouye, H. *et al*, *Tetrahedron*, 1971, **27**, 1951; 1974, **30**, 571 (*Amarogentin, Trifloroside*)
 Wagner, H. *et al*, *Phytochemistry*, 1974, **13**, 615 (*Amaropinin*)
 Sakina, K. *et al*, *Yakugaku Zasshi*, 1976, **96**, 683 (*Centapicrin*)
 Van der Sluis, W.G. *et al*, *Planta Med.*, 1981, **41**, 150 (*Decentapicrins*)
 Ikeda, T. *et al*, *J. Org. Chem.*, 1984, **49**, 2837 (*synth*)
 Chung, M.-I. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 982 (*3'-Acetylsweroside*)

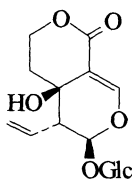
Swertiamarin

S-10136

Updated Entry replacing S-01582

Swertiamaroside

[17388-39-5]

 $C_{16}H_{22}O_{10}$ M 374.344

Constit. of *Swertia japonica*, *Anthocleista procera* and *Ericostemma litorale*. Cryst. (EtOH/CHCl₃/Et₂O). Mp 110-112°. [α]_D²⁰ -127°.

2'-O-(2,3',5-Trihydroxybiphenylcarboxylate): [21233-18-1].

Amaroswerin $C_{29}H_{30}O_{14}$ M 602.548

Isol. from *S. japonica* and *Gentiana* spp. Highly bitter principle. [α]_D²⁰ -13° (MeOH).

6'-O- β -D-Glucopyranoside: 6'-O-Glucosylswertiamarin

 $C_{22}H_{32}O_{15}$ M 536.486

Constit. of *G. alpina*.

2',3',4',6'-Tetra-Ac: [10289-37-9]. **Acetylramosin C**

 $C_{24}H_{30}O_{14}$ M 542.493

Isol. from *Erythraea ramosissima*. Mp 194°. [α]_D²⁰ -110° (c, 0.4 in CHCl₃).

4'-O-(3-Glucopyranosyloxy-2-hydroxybenzoyl), 2',3',6'-tri-Ac: see *Gelidoside*, G-00184

6'-O- β -D-Xylopyranoside: **Chironioside**

 $C_{21}H_{30}O_{16}$ M 538.458

Constit. of *Chironia krebssii*. Amorph. powder. Mp 128°. [α]_D²⁴ -107° (c, 0.3 in MeOH).

Koch, M. *et al*, *Bull. Soc. Chim. Fr.*, 1964, 403 (*pmr*)

Inouye, H. *et al*, *Tetrahedron Lett.*, 1968, 4429 (*struct*)

Inouye, H. *et al*, *Chem. Pharm. Bull.*, 1970, **18**, 1856, 2043 (*isol, biosynth*)

Inoye, H. *et al*, *Tetrahedron*, 1971, **27**, 1951 (*Amaroswerin*)

Jewers, K. *et al*, *Phytochemistry*, 1975, **14**, 297 (*Acetylramosin C*)

Mpondo, E.M. *et al*, *Planta Med.*, 1990, **56**, 334 (*6'-O-Glucosylswertiamarin*)

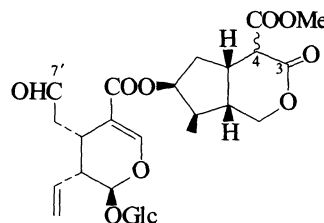
Wolfender, J.-L. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 682 (*Chironioside*)

Sylvestroside IV

S-10137

Updated Entry replacing S-01602

[71431-25-9]

 $C_{27}H_{36}O_{14}$ M 584.573

Constit. of *Dipsacus sylvestris*. Foam. [α]_D²⁰ -57° (c, 0.4 in MeOH).

Tetra-Ac: Cryst. (EtOH). Mp 137-139°. [α]_D²² -60° (c, 0.4 in CHCl₃).

7'-Alcohol: **Laciniatoside IV**

 $C_{27}H_{38}O_{14}$ M 586.589

Isol. from *D. laciniatus*. [α]_D²⁶ -101° (c, 0.43 in MeOH). Assigned 4 β -config.

3 ξ -Alcohol (lactol): **Laciniatoside I**

 $C_{27}H_{38}O_{14}$ M 586.589

Constit. of *D. laciniatus*. [α]_D²⁴ -53° (c, 1.4 in MeOH).

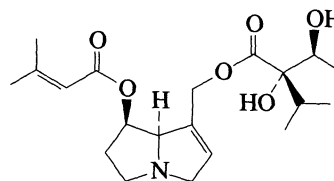
Jensen, S.R. *et al*, *Phytochemistry*, 1979, **18**, 273.

Kocsis, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1486 (*Laciniatosides*)

Symviridine

S-10138

[145774-76-1]

 $C_{20}H_{31}NO_6$ M 381.468

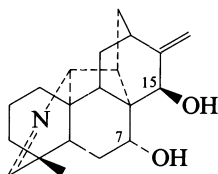
Alkaloid from roots of *Symphytum officinale*, *S. asperum* and *S. x uplandicum* (Boraginaceae). Gum. [α]_D -8° (c, 0.1 in EtOH).

Roeder, E. *et al*, *Phytochemistry*, 1992, **31**, 4041 (*isol, ir, pmr, cmr, ms, struct*)

T

Talassamine

[142861-01-6]



$C_{20}H_{27}NO_2$ M 313.439

Minor alkaloid from epigeal parts of *Aconitum talassicum* (Ranunculaceae). Cryst. (Me₂CO). Mp 208-210°.

O⁷-Ac: [142861-10-7]. **Talassimine**

$C_{22}H_{29}NO_3$ M 355.476

Minor alkaloid from epigeal parts of *A. talassicum* (Ranunculaceae). Cryst. (Et₂O). Mp 242-245°.

O¹⁵-Ac: [142861-11-8]. **Talassimidine**

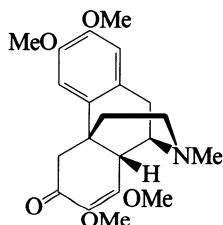
$C_{22}H_{29}NO_3$ M 355.476

Minor alkaloid from epigeal parts of *A. talassicum* (Ranunculaceae). Cryst. (Me₂CO). Mp 263-265°.

Nishanov, A.A. *et al*, *Khim. Prir. Soedin.*, 1991, 93; *Chem. Nat. Compd. (Engl. Transl.)*, 82 (isol, ir, pmr, ms, cryst struct)

Tannagine

Updated Entry replacing T-00069
[123750-34-5]



Relative
configuration

$C_{21}H_{27}NO_5$ M 373.448

This struct. was originally assigned to Isostephodeline, I-00817. Alkaloid from aerial parts of *Stephania zippeliana* (Menispermaceae). $[\alpha]_D +40^\circ$ (c, 0.80 in CHCl₃).

14-Epimer: [56596-12-4]. **Stephodeline**

$C_{21}H_{27}NO_5$ M 373.448

Alkaloid from *S. delavayi* and *S. zippeliana* (Menispermaceae). $[\alpha]_D +20^\circ$ (c, 0.6 in CHCl₃).

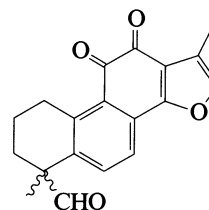
Perel'son, M.E. *et al*, *Khim. Prir. Soedin.*, 1975, 11, 188; *Chem. Nat. Compd. (Engl. Transl.)*, 197 (Stephodeline)

Charles, B. *et al*, *Can. J. Chem.*, 1989, 67, 1257 (isol, uv, ir, pmr, cmr, ms, struct)

T-10001

Tanshinonal

[146362-71-2]



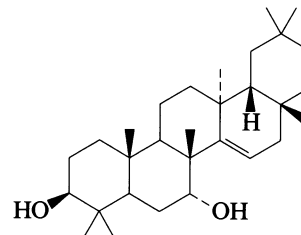
$C_{19}H_{16}O_4$ M 308.333

Constit. of *Salvia miltiorrhiza*. Red needles. Mp 230-233°. $[\alpha]_D^{23} -118.5^\circ$.

Okamura, N. *et al*, *Planta Med.*, 1992, 58, 571 (isol)

14-Taraxerene-3,7-diol

T-10004



$C_{30}H_{50}O_2$ M 442.724

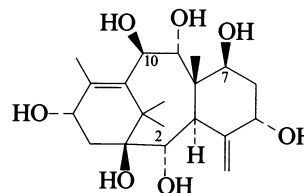
(3β,7α)-form [145631-53-4]

Constit. of *Bosistoa brassii*. Needles (EtOAc/MeOH). Mp 275-279°. $[\alpha]_D -14^\circ$ (c, 0.14 in CHCl₃).

Parsons, I.C. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, 56, 46 (isol, pmr, cmr)

4(20),11-Taxadiene-1,2,5,7,9,10,13-heptol

T-10005



$C_{20}H_{32}O_7$ M 384.469

(1β,2α,5α,7β,9α,10β,13α)-form

7-Benzoyl, 2,9,10-tri-Ac: [147703-44-4]. 2α-Acetoxybrevifoliol

$C_{33}H_{42}O_{11}$ M 614.688

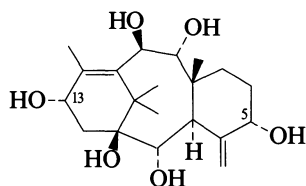
Constit. of *Taxus baccata*. Needles (Me₂CO/Et₂O). Mp 198°. $[\alpha]_D^{25} -24^\circ$ (c, 0.83 in CH₂Cl₂).

Appendino, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, 56, 514 (isol, pmr, cmr)

4(20),11-Taxadiene-1,2,5,9,10,13-hexol

T-10006

Updated Entry replacing P-00716

 $C_{20}H_{32}O_6$ M 368.469**(1 β ,2 α ,5 α ,9 α ,10 β ,13 α)-form**

5-Cinnamoyl, 9,13-di-Ac:

 $C_{33}H_{42}O_9$ M 582.689Constit. of *Taxus x. media*.

5-Cinnamoyl, 10,13-di-Ac:

 $C_{33}H_{42}O_9$ M 582.689Constit. of *T. x. media*.

13-Ketone: [5308-89-4]. 1,2,5,9,10-Pentahydroxy-4(20),11-taxadien-13-one. Taxicin I

13-Ketone, 5-cinnamoyl: [11034-45-0].

 $C_{29}H_{36}O_7$ M 496.599Degradn. prod. of Taxine. Cryst. Mp 233-234°. $[\alpha]_D^{21} + 285^\circ$.

13-Ketone, 5-cinnamoyl, 9-Ac:

 $C_{31}H_{38}O_8$ M 538.636Constit. of *Taxus baccata*. Powder. Mp 163-165°. $[\alpha]_D^{25} + 186^\circ$ (c, 0.63 in $CHCl_3$).

13-Ketone, 5-cinnamoyl, 10-Ac:

 $C_{31}H_{38}O_8$ M 538.636Constit. of *T. baccata*. Powder. Mp 145°. $[\alpha]_D^{25} + 185^\circ$ (c, 0.61 in $CHCl_3$).

5-(3-Dimethylamino-3-phenylpropanoyl), 10-Ac: see Taxine B, T-00151

13-Ketone, 5-cinnamoyl, 2,9-di-Ac:

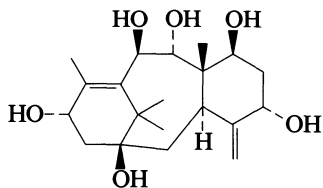
 $C_{33}H_{40}O_9$ M 580.674Constit. of *T. x. media*.

13-Ketone, 5-cinnamoyl, 2,10-di-Ac:

 $C_{33}H_{40}O_9$ M 580.674Constit. of *T. x. media*.Harrison, J.W. et al, *J. Chem. Soc. C*, 1966, 1933 (synth)Eyre, D.H. et al, *J. Chem. Soc. C*, 1967, 452 (struct)Appendino, G. et al, *Phytochemistry*, 1992, 31, 4253 (pmr, cmr)Chmurny, G.N. et al, *Phytochemistry*, 1993, 34, 477 (isol, pmr, cmr)

4(20),11-Taxadiene-1,5,7,9,10,13-hexol

T-10007

 $C_{20}H_{32}O_6$ M 368.469**(1 β ,5 α ,7 β ,9 α ,10 β ,13 α)-form**

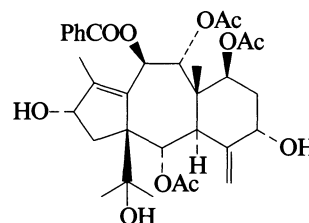
10-Benzoyl, 7,9-di-Ac:

 $C_{31}H_{40}O_9$ M 556.652Constit. of *Taxus brevifolia*. Cryst. (Me_2CO /hexane). Mp 200-205°. $[\alpha]_D - 28^\circ$ (c, 1.02 in $CHCl_3$).Chu, A. et al, *Phytochemistry*, 1993, 34, 269 (isol, pmr, cmr)

Taxchinin A

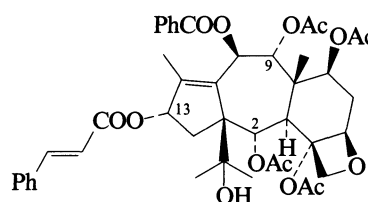
[146621-74-1]

T-10008

 $C_{33}H_{42}O_{11}$ M 614.688Constit. of *Taxus chinensis*. Plates (Et_2O). Mp 208-210°. $[\alpha]_D^{19} - 34.62^\circ$ (c, 0.875 in CH_2Cl_2).Fuji, K. et al, *J. Nat. Prod. (Lloydia)*, 1993, 56, 1520 (isol, pmr, cmr, cryst struct)

Taxchinin B

T-10009

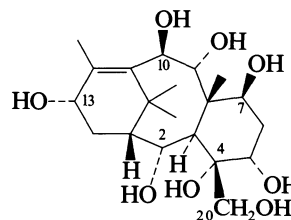
 $C_{44}H_{50}O_{14}$ M 802.871Constit. of *Taxus chinensis*. Needles (MeOH). Mp 176-178°. $[\alpha]_D^{20} + 7.4^\circ$ (c, 0.405 in CH_2Cl_2).

2,9,13-Trisdeacyl, 2,9-dibenzoyl, 13-Ac: Taxchinin C

 $C_{47}H_{50}O_{14}$ M 838.904Constit. of *T. chinensis*. Needles (Me_2CO /hexane). Mp 212-214°. $[\alpha]_D^{20} - 45.6^\circ$ (c, 3.5 in CH_2Cl_2).Fuji, K. et al, *J. Nat. Prod. (Lloydia)*, 1993, 56, 1520 (isol, pmr, cmr)

11-Taxen-2,4,5,7,9,10,13,20-octol

T-10010

 $C_{20}H_{34}O_8$ M 402.484**(2 α ,4 α ,5 α ,7 β ,9 α ,10 β ,13 α)-form**

2-Benzoyl, 5,7,9,10,13-penta-Ac: [149155-52-2].

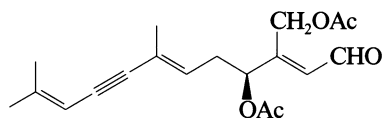
 $C_{37}H_{48}O_{14}$ M 716.778Constit. of *Taxus mairei*. Cryst. (Me_2CO). Mp 114-115°. $[\alpha]_D^{20} - 30^\circ$ (c, 0.1 in $CHCl_3$).

2-Benzoyl, 7,9,10,13,20-penta-Ac: [149155-53-3].

 $C_{37}H_{48}O_{14}$ M 716.778Constit. of *T. mairei*. Cryst. (Me_2CO). Mp 122-123°. $[\alpha]_D^{20} - 37^\circ$ (c, 0.1 in $CHCl_3$).Liang, J. et al, *J. Nat. Prod. (Lloydia)*, 1993, 56, 594 (isol, pmr, cmr)

Taxifolial A

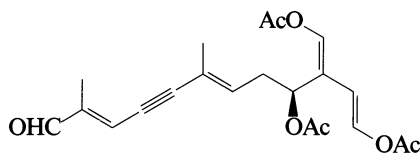
[142474-75-7]

 $C_{19}H_{24}O_5$ M 332.396Constit. of *Caulerpa taxifolia*. Oil. $[\alpha]_D^{20}$ -3.9° (c, 0.47 in EtOH).Guerriero, A. et al, *Helv. Chim. Acta*, 1992, **75**, 689 (isol, pmr, cmr)**T-10011** $C_{19}H_{25}NO_5$ M 347.410Alkaloid from *Ungernia vvedenskyi*. Mp 148-150°. $[\alpha]_D^{20}$ $+12.5^\circ$ (c, 0.528 in $CHCl_3$).**(±)-form** [28405-99-4]Synthetic. Cryst. (Me_2CO). Mp 175-176°.

Ikeda, T. et al, *J. Chem. Soc.*, 1956, 4749 (struct)
 Duffield, A.M. et al, *J. Am. Chem. Soc.*, 1965, **87**, 4902 (ms)
 Haugwitz, R.D. et al, *J. Chem. Soc.*, 1965, 2001 (pmr)
 Highet, R.J. et al, *Tetrahedron Lett.*, 1966, 4099 (config)
 Sato, T. et al, *J. Chem. Soc. B*, 1971, 1070 (cryst struct)
 Hendrickson, J.B. et al, *J. Am. Chem. Soc.*, 1974, **96**, 7781 (synth)
 Kadyrov, K.A. et al, *Khim. Prir. Soedin.*, 1979, **15**, 585; *Chem. Nat. Compd. (Engl. Transl.)*, 513 (Ungvedine)
 Danishefsky, S. et al, *J. Am. Chem. Soc.*, 1982, **104**, 7591 (synth, ir, pmr)
 Suffness, M. et al, *Alkaloids (N.Y.)*, 1985, **25**, 203 (occur)

Taxifolial B

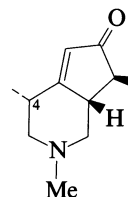
[142474-76-8]

 $C_{21}H_{24}O_7$ M 388.416Constit. of *Caulerpa taxifolia*. Oil. $[\alpha]_D^{20}$ 0° (c, 0.17 in EtOH).Guerriero, A. et al, *Helv. Chim. Acta*, 1992, **75**, 689 (isol, pmr, cmr)**T-10012****Tecomanine****T-10015**

Updated Entry replacing T-00163

Tecomine†

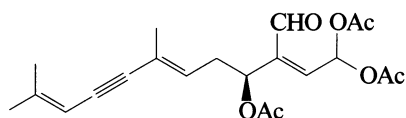
[6878-83-7]



Absolute configuration

Taxifolial C

[142474-78-0]

 $C_{21}H_{26}O_7$ M 390.432Constit. of *Caulerpa taxifolia*. Oil. $[\alpha]_D^{20}$ 0° (c, 0.04 in EtOH).Guerriero, A. et al, *Helv. Chim. Acta*, 1992, **75**, 689 (isol, pmr, cmr)**T-10013** $C_{11}H_{17}NO$ M 179.261Major alkaloid from *Calopogonium stans* and *C. fulva* (Leguminosae). Hypoglycaemic agent. *Tecoma* extracts are used in Mexico for control of diabetes. $Bp_{0.1}$ 125° . $[\alpha]_D^{24}$ -175° (c, 1.17 in $CHCl_3$).

▷ WX8575000.

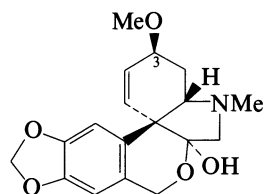
Picrate: Mp 179.5-180.5°.

2,4-Dinitrophenylhydrazine: Mp 260°.

4-Hydroxy: **4-Hydroxytecomanine** $C_{11}H_{17}NO_2$ M 195.261Alkaloid from fruits of *Tecoma stans* (Bignoniaceae). Oil.Dickinson, E.M. et al, *Tetrahedron*, 1969, **25**, 1523 (ir, uv, pmr, isol, struct)Jones, G. et al, *J. Chem. Soc., Chem. Commun.*, 1971, 994 (cryst struct)Berg, W. et al, *Pharmazie*, 1977, **32**, 41 (ms)Imanishi, T. et al, *Chem. Pharm. Bull.*, 1983, **31**, 1243 (synth)Lins, A.P. et al, *Phytochemistry*, 1993, **34**, 876 (4-Hydroxytecomanine)**Tazettine****T-10014**

Updated Entry replacing T-00155

Ungernine. Sekisanine. Sekisanoline



Absolute configuration

 $C_{18}H_{21}NO_5$ M 331.368**(+)-form** [507-79-9]

Isol. from *Narcissus tazetta* and a very large number of spp. in the Amaryllidaceae. Weak hypotensive agent. Mp 210-211°. $[\alpha]_D^{16}$ $+150^\circ$ ($CHCl_3$). Has been shown to be an artifact produced by base-catalysed rearr. of Pretazettine, P-01819 in two cases studied, and is probably an artifact in all cases.

▷ LD₅₀ (dog, iv) 71 mg/kg.

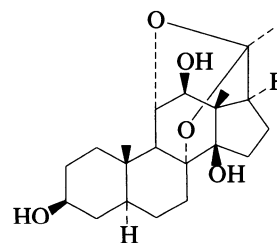
O-Ac: Mp 125-126.5°.

Picrate: Mp 205-208°.

3-Epimer: see *Criwelline*, C-020101,2-Dihydro, Me ether: [73276-40-1]. *Ungvedine***Tenacigenin A****T-10016**

Updated Entry replacing T-00187

8β,20R: 11β,20-Diepoxy-5α-pregnane-3β,12β,14β-triol [75903-04-7]

 $C_{21}H_{32}O_5$ M 364.481Constit. of *Marsdenia tenacissima*.

12-Ac:

$C_{23}H_{34}O_6$ M 406.518

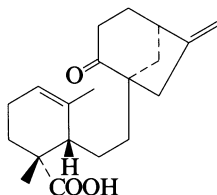
Constit. of *M. tenacisima*. Amorph. powder. Mp 162-165°. $[\alpha]_D^{25} +27.4^\circ$ (c, 0.4 in $CHCl_3$).

Zhou, J. *et al*, *Zhiwu Xuebao*, 1980, **22**, 67; *CA*, **94**, 4160r.

Luo, S.-Q. *et al*, *Magn. Reson. Chem.*, 1993, **31**, 215 (*pmr*, *cmr*)

Terminalic acid

[85527-46-4]



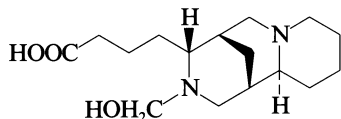
$C_{20}H_{28}O_3$ M 316.439

Constit. of *Ichthyothere terminalis*. $[\alpha]_D^{24} +25^\circ$ (c, 0.7 in $CHCl_3$) (as Me ester).

Bohlmann, F. *et al*, *Phytochemistry*, 1982, **21**, 2317 (*isol*, *pmr*)

Termisine

T-10018



$C_{16}H_{28}N_2O_3$ M 296.409

(±)-*form*

Alkaloid from seeds of *Lupinus termis* (Leguminosae).

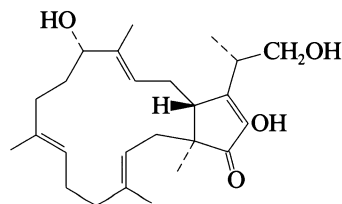
Fine yellow cryst. Mp 98-99°. Zwitterionic.

Mohamed, M.H. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1999

(*isol*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

Terpestacin

[146436-22-8]



$C_{25}H_{38}O_4$ M 402.573

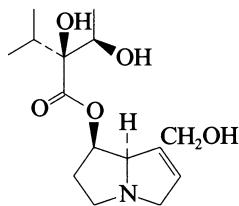
Metab. of an *Arthrinium* sp. Cryst. (MeOH). Mp 172-173°.

$[\alpha]_D^{22} +26^\circ$ (c, 0.5 in $CHCl_3$).

Iimura, S. *et al*, *Tetrahedron Lett.*, 1993, **34**, 493 (*isol*, *pmr*, *cmr*, *cryst struct*, *abs config*, *biosynth*)

Tessellatine

[135683-58-8]



$C_{15}H_{25}NO_5$ M 299.366

Alkaloid from *Amsinckia douglasiana* and *A. tesellata* var. *gloriosa* (Boraginaceae). Oil. $[\alpha]_D^{25} +2.4^\circ$ (c, 0.45 in EtOH).

Kelley, R.B. *et al*, *Phytochemistry*, 1992, **31**, 2513 (*isol*, *pmr*, *cmr*, *ms*, *struct*)

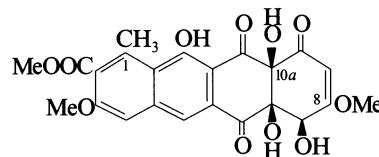
Tetracenomycin C

T-10021

Updated Entry replacing T-00261

H 881I. Antibiotic H 881I

[71135-22-3]



$C_{23}H_{20}O_{11}$ M 472.404

Anthraquinone antibiotic. Isol. from *Streptomyces*

glaucescens. Active against gram-positive bacteria. Also shows antiviral props. Pale-yellow needles. Mp 215° dec.

$[\alpha]_D^{24} +22^\circ$ (c, 1.0 in dioxan).

Di-Ac: Mp 175°.

Tri-Ac: Mp 183°.

Tetra-Ac: Mp 287°.

O^{10a} -*Me*: [121245-07-6]. **Tetracenomycin X**

$C_{24}H_{22}O_{11}$ M 486.431

Prod. by *Nocardia mediterranei*. Mp 156° dec.

(synthetic).

3-O-De-Me: **3-O-Demethyltetracenomycin C**

$C_{22}H_{18}O_{11}$ M 458.378

From *S. glaucescens*. Mp 178-181°.

Weber, W. *et al*, *Arch. Microbiol.*, 1979, **121**, 111 (*synth*, *props*)

Lazar, G. *et al*, *J. Antibiot.*, 1981, **34**, 1067 (*isol*, *deriv*)

Weber, W. *et al*, *CA*, 1982, **97**, 35719 (*props*)

Alarcon, B. *et al*, *Antiviral Res.*, 1984, **4**, 231 (*props*)

Ye, Y. *et al*, *Kangshengsu*, 1984, **9**, 28; *CA*, **101**, 35591 (*isol*)

Motamedi, H. *et al*, *J. Bacteriol.*, 1986, **167**, 575, 581 (*isol*, *struct*)

Anderson, M.G. *et al*, *J. Antibiot.*, 1989, **42**, 640 (*Tetracenomycin X*)

Rohr, J. *et al*, *J. Antibiot.*, 1990, **43**, 1169 (*Tetracenomycin X*)

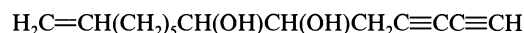
Egert, E. *et al*, *J. Antibiot.*, 1992, **45**, 1190 (*cryst struct*)

13-Tetradecene-1,3-diyne-6,7-diol

T-10022

Panaxyne

[122855-49-6]



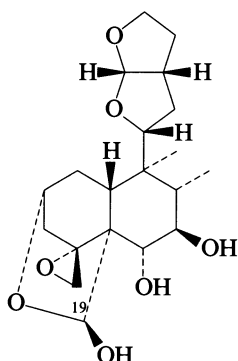
$C_{14}H_{20}O_2$ M 220.311

Constit. of the roots of *Panax ginseng*. Cytotoxic.

Kim, S.I. *et al*, *Saengyak Hakhoechi*, 1989, **20**, 71; *CA*, **111**, 22489i (*isol*)

2,19:4,18:11,16:15,16-Tetraepoxy-6,7,19-clerodanetriol

T-10023

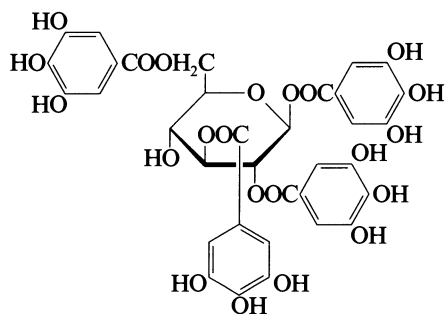


$C_{20}H_{30}O_7$ M 382.453
(ent-2 β ,4 β ,6 β ,7 α ,11R,16R,19S)-form
 7,19-Ditigloyl, 6-Ac: [149639-77-0]. *Scutegalin A*
 $C_{32}H_{44}O_{10}$ M 588.694
 Constit. of *Scutellaria galericulata*. Amorph. solid. Mp
 105-110°. $[\alpha]_D^{23} + 17.0^\circ$ (c, 0.305 in $CHCl_3$).
 Rodríguez, B. et al, *Phytochemistry*, 1993, **33**, 309 (*isol, pmr, cmr*)

1,2,3,6-Tetragalloylglucose

T-10024

Updated Entry replacing T-00385



$C_{34}H_{28}O_{22}$ M 788.582
 β -D-Pyranose-form [79886-50-3]
 Isol. from *Fuchsia* spp. *Quercus infectoria*, *Ceratonia siliqua* and *Epilobium angustifolium*. Fine needles (H_2O). Mp > 250°. $[\alpha]_D^{20} + 41^\circ$ (c, 0.8 in MeOH).
 O-(3,4,5-Trihydroxybenzoyl)(1): [99907-48-9]. 3-O-Digalloyl-1,2,6-tri-O-galloyl- β -D-glucopyranose
 $C_{41}H_{32}O_{26}$ M 940.688
 Isol. from green alga (*Spirogyra* sp.). Amorph. powder. $[\alpha]_D^{31} + 60.0^\circ$ (c, 0.53 in acetone). Contains a digalloyl (galloylgalloyl) residue at C-3.
 O-(3,4,5-Trihydroxybenzoyl)(2): [86709-52-6]. 6-O-Digalloyl-1,2,3-tri-O-galloyl- β -D-glucopyranose
 $C_{41}H_{32}O_{26}$ M 940.688
 Gallotannin from the twig gall of *Quercus infectoria*. Light brown amorph. powder. $[\alpha]_D^{20} + 44.1^\circ$ (c, 0.54 in Me_2CO). Contains a Digalloyl (galloylgalloyl) residue at C-6.
 O-Bis-(3,4,5-Trihydroxybenzoyl): 2,6-Bis-O-digalloyl-1,3-di-O-galloyl- β -D-glucopyranose
 $C_{48}H_{36}O_{30}$ M 1092.794
 Gallotannin const. of the twig gall *Q. infectoria*. Light brown amorph. powder. $[\alpha]_D^{20} + 39.4^\circ$ (c, 0.33 in Me_2CO). Contains galloylgalloyl residues at C-2 and C-6.
 O-(Galloylgalloyl): 6-O-Trigalloyl-1,2,3-tri-O-galloyl- β -D-glucopyranose

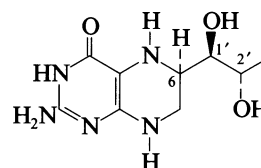
$C_{48}H_{36}O_{30}$ M 1092.794
 Isol. from the twig gall of *Q. infectoria*. Light brown amorph. powder. $[\alpha]_D^{20} + 43.4^\circ$ (c, 0.35 in Me_2CO). Contains a trigalloyl (galloylgalloylgalloyl) residue at C-6.

Haddock, E.A. et al, *J. Chem. Soc., Perkin Trans. 1*, 1982, 2515 (*isol, struct, pmr, cmr*)
 Nishizawa, M. et al, *J. Chem. Soc., Perkin Trans. 1*, 1983, 961 (*derivs*)
 Nishizawa, M. et al, *Phytochemistry*, 1985, **24**, 2411 (*deriv*)

5,6,7,8-Tetrahydrobiopterin

T-10025

2-Amino-6-(1,2-dihydroxypropyl)-5,6,7,8-tetrahydro-4(1H)-pteridinone, 9CI
 [17528-72-2]



$C_9H_{15}N_5O_3$ M 241.249
(1'R,2'S,6'R)-form [99630-29-2]

Cofactor for phenylalanine, tyrosine and tryptophan hydroxylases which influences the biosynth. of neurotransmitting catecholamines.

B,2HCl: Needles (HCl/EtOH). Mp 245-246° dec. $[\alpha]_D^{25} - 6.81^\circ$ (c, 0.67 in 0.1M HCl). Other stereoisomers known.

[27070-47-9, 62961-57-3, 62989-33-7, 69056-38-8, 69056-39-9, 71031-45-3, 71074-53-8, 83023-72-7, 83709-59-5, 90366-07-7, 99630-30-5, 105119-62-8, 105119-63-9]

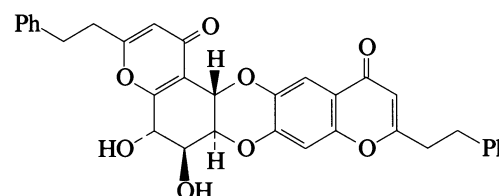
Brethauer, R., *Z. Naturforsch., B*, 1972, **27**, 580 (*isol, tlc*)
 Ayling, J.E. et al, *Biochemistry*, 1973, **12**, 2045 (*biochem*)
 Williams, V.P. et al, *J. Heterocycl. Chem.*, 1973, **10**, 827 (*ms*)
 Schircks, B. et al, *Helv. Chim. Acta*, 1977, **60**, 211; 1978, **61**, 2731 (*synth, pmr, cmr, cd*)
 Bailey, S.W. et al, *J. Biol. Chem.*, 1978, **253**, 1598 (*resoln, uv*)
 Furrer, H.J. et al, *Helv. Chim. Acta*, 1979, **62**, 2577 (*synth, pmr, cmr*)
 Armarego, W.L.F. et al, *Aust. J. Chem.*, 1982, **35**, 785; 1984, **37**, 355 (*synth, pmr, cmr, abs config*)
 Whiteley, J.M. et al, *Anal. Biochem.*, 1984, **137**, 394 (*synth*)
 Matsuura, S. et al, *Heterocycles*, 1985, **23**, 3115 (*synth, uv, pmr, cmr, ms*)
 Matsuura, S. et al, *J. Biochem. (Tokyo)*, 1985, **98**, 1341; *CA*, **104**, 30828 (*abs config*)
 Smith, G.K. et al, *J. Biol. Chem.*, 1986, **261**, 2725 (*biosynth*)

5,6,6a,14a-Tetrahydro-5,6-dihydroxy-3,10-bis(2-phenylethyl)-1H,12H-[1]

T-10026

benzopyrano[7,6-b]pyrano[3,2-f][1,4]benzodioxin-1,12-dione, 9CI

AH_{21}
 [138822-70-5]



$C_{34}H_{28}O_8$ M 564.590

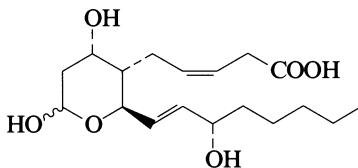
Constit. of agalwood (Jinko). Powder. Mp 123-125°. [α]_D –75.2° (c, 1.09 in MeOH).

Konishi, T. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1869 (*isol*, *pmr*, *cmr*, *struct*)

5-[Tetrahydro-4,6-dihydroxy-2-(3-hydroxy-1-octenyl)-2H-pyran-3-yl]-3-pentenoic acid

T-10027

Dinorthromboxane B₂
[63250-09-9]



C₁₈H₃₀O₆ M 342.431
Major human urinary thromboxane metab.
[63635-82-5, 103190-15-4]

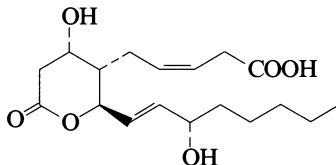
Roberts, L.J. *et al*, *J. Biol. Chem.*, 1977, **252**, 7415; 1981, **256**, 8384 (*biosynth*)

Nelson, N.A. *et al*, *Prostaglandins*, 1978, **16**, 85 (*synth*, *Me ester*)
Patrignani, P. *et al*, *Biochim. Biophys. Acta*, 1989, **992**, 71 (*biosynth*)

5-[Tetrahydro-4-hydroxy-2-(3-hydroxy-1-octenyl)-6-oxo-2H-pyran-3-yl]-3-pentenoic acid

T-10028

2,3-Dinor-11-dehydrothromboxane B₂
[79250-60-5]



C₁₈H₂₈O₆ M 340.416
Urinary metab. of thromboxane B₂.

Roberts, L.J. *et al*, *J. Biol. Chem.*, 1981, **256**, 8384 (*biosynth*)

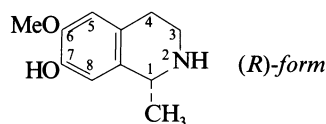
1,2,3,4-Tetrahydro-7-hydroxy-6-methoxy-1-methylisoquinoline

T-10029

Updated Entry replacing T-00463

1,2,3,4-Tetrahydro-6-methoxy-1-methyl-7-isoquinolinol, 9*Cl*.
Isosalsoline

[4593-97-9]



C₁₁H₁₅NO₂ M 193.245

(*R*)-form

B,HCl: Synthetic. Mp 241-242°. [α]_D +24.7° (c, 1 in MeOH).

N-Me: [35048-35-2]. *N-Methylisosalsoline*. *1,2,3,4-Tetrahydro-6-methoxy-1,2-dimethyl-7-isoquinolinol*, 9*Cl*.
1,2,3,4-Tetrahydro-7-hydroxy-6-methoxy-1,2-dimethylisoquinoline. *1-Methylcorypalline*

C₁₂H₁₇NO₂ M 207.272

Minor alkaloid from tubers of *Corydalis ambigua* (Fumariaceae). Also isol. from *Haloxylon articulatum* (Chenopodiaceae). Mp 156-158°. [α]_D +33.5° (c, 0.23 in CHCl₃), [α]_D +1° (c, 0.23 in EtOH).

(*S*)-form

B,HCl: Synthetic. Mp 241-242°. [α]_D –26.0° (c, 1 in MeOH).

N-Me: (–)-*1-Methylcorypalline*

C₁₂H₁₇NO₂ M 207.272

Alkaloid from aerial parts of *Arthrocnemum glaucum* (Chenopodiaceae). Cubes (MeOH). Mp 175-178°. [α]_D –32° (c, 0.79 in MeOH).

(±)-form

N-Me: [19641-12-4].

Synthetic. Mp 148-150°.

N-Me; *B,HCl*: Mp 190-192°.

(ξ)-form

Alkaloid from *Pachycereus pecten-aboriginum* (Cactaceae). Spec. rotn. and stereochem. unspecified.

Strukov, I.T. *et al*, *Zh. Obshch. Khim.*, 1959, **29**, 3831; 1961, **31**, 2709; *CA*, **54**, 19676a; **56**, 11567f (*synth*, *deriv*)

Carling, C. *et al*, *Acta Pharm. Suec.*, 1970, **7**, 285; *CA*, **73**, 63154f (*isol*, *deriv*)

Naruto, S. *et al*, *Phytochemistry*, 1973, **12**, 3008 (*occur*, *deriv*)

Teitel, S. *et al*, *J. Med. Chem.*, 1974, **17**, 134 (*synth*, *uv*, *ord*, *cd*, *pmr*)

Strombom, J. *et al*, *Acta Pharm. Suec.*, 1978, **15**, 127 (*isol*)

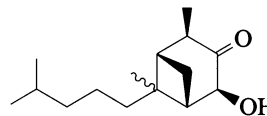
Strombom, J. *et al*, *J. Chromatogr.*, 1978, **147**, 513 (*hplc*)

Khalil, A.T. *et al*, *Phytochemistry*, 1992, **31**, 1023 (*Methylcorypalline*)

1,2,12,13-Tetrahydro-3-hydroxy-2-oxobergamotene

T-10030

[145075-57-6]



C₁₅H₂₆O₂ M 238.369

Constit. of *Dracocephalum nutans*. Cryst. Mp 115°. [α]_D²⁵ –1.7° (c, 0.02 in MeOH).

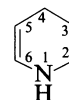
Misra, L.N. *et al*, *Planta Med.*, 1992, **58**, 478 (*isol*, *pmr*, *cmr*)

1,2,3,4-Tetrahydropyridine

T-10031

Δ²-Piperidine

[37497-65-7]



C₅H₉N M 83.133

Liq. Dimerises on heating.

B,HCl: Mp 230°.

B,HBr: Mp 178°.

Ac: *1-Acetyl-1,2,3,4-tetrahydropyridine*

C₇H₁₁NO M 125.170

Alkaloid from leaves and twigs of *Dichilus strictus*, *D. reflexus*, *D. lebeckioides*, *D. pilosus* and *D. gracilis* (Leguminosae). Bp 219.5-220.5°.

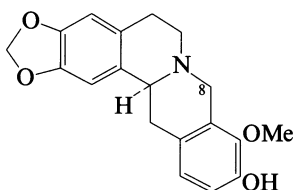
Paal, C. *et al*, *Ber.*, 1901, **34**, 2757 (*synth*)

Van Wyk, B.-E. *et al*, *Biochem. Syst. Ecol.*, 1988, **16**, 471 (*deriv*, *isol*)

Tetrahydrothalifendine

T-10032

Updated Entry replacing T-00548

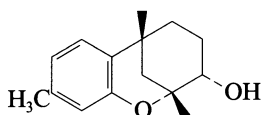


Absolute configuration

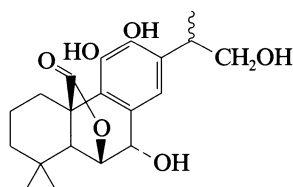
 $C_{19}H_{19}NO_4$ M 325.363**(S)-form**Alkaloid from *Thalictrum fendleri* (Ranunculaceae). Mp 209-211°. $[\alpha]_D -175^\circ$ (MeOH).*Me ether*: see *Canadine*, C-00207**8-Oxo: 8-Oxotetrahydrothalifendine** $C_{19}H_{17}NO_5$ M 339.347Alkaloid from stems of *Coscinium fenestratum* (Menispermaceae). $[\alpha]_D -605^\circ$ (c, 0.084 in MeOH).Shamma, M. *et al*, *Tetrahedron*, 1971, **27**, 727 (*uv*, *pmr*, *ir*, *ms*, *struct*)Pinho, P.M.M. *et al*, *Phytochemistry*, 1992, **31**, 1403 (*8-Oxotetrahydrothalifendine*)**3,4,5,6-Tetrahydro-2,6,9-trimethyl-2,6-methano-2H-1-benzoxcin-3-ol, 9CI**

T-10033

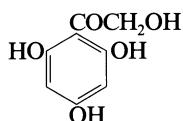
[145382-79-2]

 $C_{15}H_{20}O_2$ M 232.322Constit. of *Laurencia majuscula*. Yellow oil. $[\alpha]_D 0^\circ$ (c, 0.1 in $CHCl_3$).de Nys, R. *et al*, *Aust. J. Chem.*, 1992, **45**, 1611 (*isol*, *pmr*, *cmr*)**7,11,12,16-Tetrahydroxy-8,11,13-abietatrien-20,6-olide**

T-10034

 $C_{20}H_{26}O_6$ M 362.422**(6 β ,7 α ,15 ξ)-form** [150065-57-9] **16-Hydroxyrosmanol**
Constit. of *Sabia mellifera*. Amorph. solid.**(6 β ,7 β ,15 ξ)-form** [150134-19-3] **16-Hydroxyepirosmanol**
Constit. of *S. mellifera*. Amorph. solid.Luis, J.G. *et al*, *Phytochemistry*, 1993, **33**, 635 (*isol*, *pmr*, *cmr*)**2,2',4',6'-Tetrahydroxyacetophenone**

T-10035

2-Hydroxy-1-(2,4,6-trihydroxyphenyl)ethanone, 9CI. *2,4,6-Trihydroxyphenacyl alcohol*
[55313-03-6] $C_8H_8O_5$ M 184.148

Yellow-white cryst. Mp 226°.

 α -Me ether: *2-Methoxy-2',4',6'-trihydroxyacetophenone* $C_9H_{10}O_5$ M 198.175Needles (H_2O). Mp 192°.*Tetra-Me ether*: *2,2',4',6'-Tetramethoxyacetophenone* $C_{12}H_{16}O_5$ M 240.255

Cryst. (MeOH). Mp 50°.

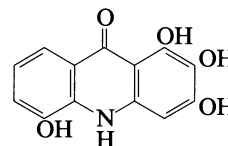
4'-O-(3,7-Dimethyl-2,6-octadienyl): [142905-41-7]. *4'-(Geranyloxy)-2,2',6'-trihydroxyacetophenone* $C_{18}H_{24}O_5$ M 320.385Isol. from the fruit of *Evodia merrillii*. Cryst.

(EtOAc/hexane). Mp 106-108°.

Herzig, J. *et al*, *Ber.*, 1909, **42**, 155.Perkin, A.G., *J. Chem. Soc.*, 1911, **99**, 1721.Slater, W.K. *et al*, *J. Chem. Soc.*, 1920, **117**, 309.Mimter, I. *et al*, *CA*, 1956, **51**, 1915h.Chou, C.J. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 795 (*isol*, *deriv*)**1,2,3,5-Tetrahydroxyacridone**

T-10036

Updated Entry replacing T-00572

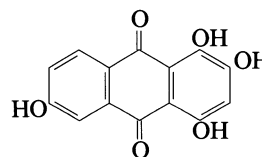
 $C_{13}H_9NO_5$ M 259.218*2,3,10-O,O,N-Tri-Me*: [75821-37-3]. *1,5-Dihydroxy-2,3-dimethoxy-10-methylacridone*. **5-Hydroxyarborinine** $C_{16}H_{15}NO_5$ M 301.298Alkaloid from the stems and leaves of *Glycosmis bilocularis* (Rutaceae). Orange-yellow cryst. (Et_2O /pet. ether). Mp 206-207° (185-187°). Phys. props. differ from those of an alkaloid of the same assigned struct. (Mp 185-7°) *isol.* from *Atalantia monopylla*.*2,3,10-O,O,N-Tri-Me*, *5-OAc*: Yellow prisms (Me_2CO /hexane). Mp 128-129°.*2,3,10-O,O,N-Tri-Me*, *1,5-di-O-Ac*: Pale-yellow prisms (Me_2CO /hexane). Mp 192-193°.*2,3,5,10-O,O,O,N-Tetra-Me*: *1-Hydroxy-2,3,5-trimethoxy-10-methylacridone*. **5-Methoxyarborinine** $C_{17}H_{17}NO_5$ M 315.325Alkaloid from stem bark of *Luwunga angustifolia* (Rutaceae). Yellow needles (EtOH). Mp 168-169° (135-136°).*O,O,O,O,N-Penta-Me*: *1,2,3,5-Tetramethoxy-10-methylacridone*

Yellow needles (EtOH). Mp 97-98°.

Bowen, I.H. *et al*, *Phytochemistry*, 1978, **17**, 2125; 1980, **19**, 1566 (*isol*, *uv*, *ir*, *pmr*, *ms*, *synth*)Shah, J.S. *et al*, *Indian J. Chem., Sect. B*, 1982, **21**, 16 (*isol*, *uv*, *ir*, *pmr*, *ms*, *struct*)Wijeratne, E.M.K. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1261 (*5-Methoxyarborinine*)**1,2,4,6-Tetrahydroxyanthraquinone**

T-10037

[75313-07-4]

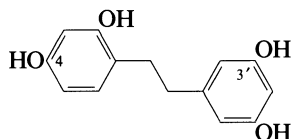
 $C_{14}H_8O_6$ M 272.214

2,4-Di-Me ether: [142878-33-9]. 1,6-Dihydroxy-2,4-dimethoxyanthraquinone
 $C_{16}H_{12}O_6$ M 300.267
 Constit. of the roots of *Damnacanthus indicus* and *Morinda officinalis*.

Yang, Y.J. et al, *Yaoxue Xuebao*, 1992, **27**, 358; *CA*, **117**, 86794.

2,3',4,5'-Tetrahydroxybibenzyl T-10038

4-[2-(3,5-Dihydroxyphenyl)ethyl]-1,3-benzenediol, 9CI. 4,5'-Ethylenediresorcinol, 8CI. 1-(2,4-Dihydroxyphenyl)-2-(3,5-dihydroxyphenyl)ethane. **Dihydroxyresveratrol**
 [24082-42-6]



$C_{14}H_{14}O_4$ M 246.262

Isol. from *Erythrina variegata* and *Morus* spp. Cryst. (H_2O). Mp 164-165° (160°).

Tetra-Me ether: [24131-34-8]. 2,3',4,5'-Tetramethoxybibenzyl

$C_{18}H_{22}O_4$ M 302.369

Cryst. (hexane). Mp 57-58°.

Mongolsuk, S. et al, *J. Chem. Soc.*, 1957, 2231 (*synth*)

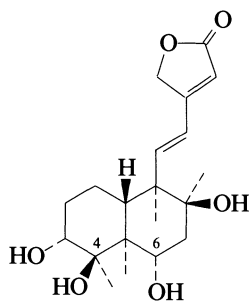
Reimann, E., *Chem. Ber.*, 1969, **102**, 2881 (*synth*)

Deshpande, V.H. et al, *Indian J. Chem.*, 1975, **13**, 453 (*isol*)

Deshpande, V.H. et al, *Indian J. Chem., Sect. B*, 1977, **15**, 205 (*isol*)

3,4,6,8-Tetrahydroxy-11,13-clerodadien-15,16-olide T-10039

Updated Entry replacing T-00629



$C_{20}H_{30}O_6$ M 366.453

(*ent*-3β,4α,6β,8α,11*E*)-form

O⁶-Benzoyl: [112609-09-3]. **Scuterivulactone D**. **Scutellone D**

$C_{27}H_{34}O_7$ M 470.561

Constit. of crude Chinese drug "Ban Zhi Lian" (*Scutellaria rivularis*). Needles (Me_2CO). Mp 260-262°. $[\alpha]_D^{25} + 57.5^\circ$ (MeOH).

4-Me ether, 6-benzoyl: [121924-21-8]. **Scutellone I**

$C_{28}H_{36}O_7$ M 484.588

Constit. of *S. rivularis*. Needles (Me_2CO). Mp 265-266°. $[\alpha]_D + 8.7^\circ$ (c, 0.4 in $CHCl_3$).

4-Et ether, 6-benzoyl: [121904-03-8]. **Scutellone H**

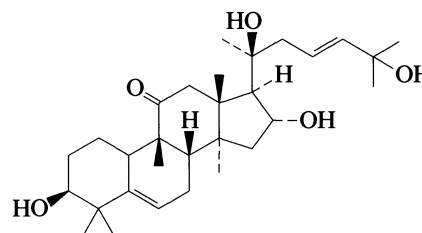
$C_{29}H_{38}O_7$ M 498.615

Constit. of *S. rivularis*. Needles (Me_2CO). Mp 244-245°. $[\alpha]_D^{23} + 11.1^\circ$ (c, 0.3 in $CHCl_3$).

Kizu, H. et al, *Chem. Pharm. Bull.*, 1987, **35**, 1656.

Lin, Y.-L. et al, *Chem. Pharm. Bull.*, 1988, **36**, 2642; 1989, **37**, 582 (*Scutellones, cryst struct*)

3,16,20,25-Tetrahydroxycucurbita-5,23-dien-11-one T-10040



$C_{30}H_{48}O_5$ M 488.706

(3β,16α,23*E*)-form

Cucurbitacin V

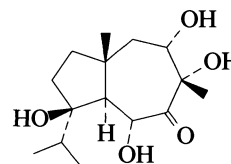
3-O-β-D-Gentiobioside:

$C_{42}H_{68}O_{15}$ M 812.990

Constit. of *Fevillea cordifolia*. Amorph. powder. $[\alpha]_D^{21} + 30^\circ$ (c, 0.5 in MeOH).

Achenbach, H. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1506 (*isol, pmr, cmr*)

4,6,8,9-Tetrahydroxy-7-daucanone T-10041



$C_{15}H_{26}O_5$ M 286.367

(4β,6α,8α,9α)-form

6-(4-Hydroxybenzoyl): [149301-71-3].

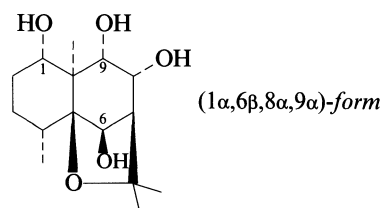
$C_{22}H_{30}O_7$ M 406.475

Constit. of *Ferula jaeschkeana*. Amorph. powder.

Garg, S.N. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 539 (*isol, pmr, cmr*)

1,6,8,9-Tetrahydroxydihydro-β-agarofuran T-10042

Updated Entry replacing T-00653



$C_{15}H_{26}O_5$ M 286.367

(1α,6β,8α,9α)-form

9-Benzoyl, 1,6-di-Ac:

$C_{26}H_{34}O_8$ M 474.550

Constit. of *Celastrus paniculatus*. Amorph. powder. $[\alpha]_D^{23} - 78.7^\circ$ (c, 0.525 in $CHCl_3$).

1,9-Dibenzoyl, 6-Ac: **Celafofin D2**

$C_{31}H_{36}O_8$ M 536.621

Constit. of *C. stephanotiiifolius*. Amorph. powder. $[\alpha]_D - 19.3^\circ$ (c, 0.42 in MeOH).

8,9-Dibenzoyl, 1,6-di-Ac: **Angulatueoid H**

$C_{33}H_{38}O_9$ M 578.658

Constit. of *C. angulatus*.

6,8,9-Tribenzoyl, 1-Ac:

$C_{38}H_{40}O_9$ M 640.729

Constit. of *C. paniculatus*. Amorph. powder. $[\alpha]_D^{23}$ -8.4° (c, 0.5 in CHCl_3).

1,8,9-Tribenzoyl, 6-Ac: Celafolin D1

$\text{C}_{38}\text{H}_{40}\text{O}_9$ M 640.729

Constit. of *C. angulatus* and *C. stephanotiifolius*.

Amorph. powder. $[\alpha]_D^{23}$ -30.8° (c, 0.52 in CHCl_3), $[\alpha]_D^{20}$ -52.8° (c, 0.38 in MeOH).

9-Benzoyl, 8-cinnamoyl, 1,6-di-Ac: 1,6-Diacetoxy-9-benzoyloxy-8-cinnamoyloxydihydro-β-agarofuran

$\text{C}_{35}\text{H}_{40}\text{O}_9$ M 604.696

Constit. of *C. paniculatus*. Cryst. (EtOAc/pet. ether).

Mp 219-220°. $[\alpha]_D^{19}$ -92° (c, 0.655 in MeOH).

1,9-Dibenzoyl, 8-(2-methylbutanoyl), 6-Ac: Celafolin D3

$\text{C}_{36}\text{H}_{44}\text{O}_9$ M 620.738

Constit. of *C. stephanotiifolius*. Amorph. powder. $[\alpha]_D^{20}$

-21.9° (c, 0.32 in MeOH).

1-(3-Pyridinecarbonyl), 8,9-dibenzoyl, 6-Ac: [135153-78-5].

Triptogelin B2

$\text{C}_{37}\text{H}_{39}\text{NO}_9$ M 641.716

Alkaloid from *Trypterygium wilfordii*. Powder. $[\alpha]_D^{23}$

$+52.3^\circ$ (c, 0.52 in MeOH).

(1α,6β,8β,9α)-form

9-(3-Pyridinecarbonyl), 6-(3-furoyl), 1,8-di-Ac:

[52658-32-9]. **Celapanine**

$\text{C}_{30}\text{H}_{35}\text{NO}_{10}$ M 569.607

Alkaloid from *C. paniculatus* (Celastraceae). Cryst.

(MeOH). Mp 245-249°. $[\alpha]_D^{26}$ -64.7° (c, 0.46 in CHCl_3).

4-Config. not certain.

9-(3-Pyridinecarbonyl), 6-benzoyl, 1-Ac: [58074-71-8].

Celapagine

$\text{C}_{30}\text{H}_{35}\text{NO}_8$ M 537.608

Alkaloid from *C. paniculatus* (Celastraceae). Cryst.

(MeOH). Mp 275-283°.

1,9-Dibenzoyl, 8-Ac: 8α-Acetoxy-1α,9α-dibenzoyloxy-6β-hydroxydihydro-β-agarofuran

$\text{C}_{31}\text{H}_{36}\text{O}_8$ M 536.621

Constit. of *C. gemmatus*. Amorph. powder.

9-Benzoyl, 1,6,8-Tri-Ac: 1α,6β,8β-Triacetoxy-9α-benzoyloxydihydro-β-agarofuran

$\text{C}_{28}\text{H}_{36}\text{O}_9$ M 516.587

Constit. of *C. gemmatus*. Amorph. powder. $[\alpha]_D^{14}$

-31.46° (c, 0.445 in CHCl_3).

(1α,6β,8α,9β)-form

9-(3-Furoyl), 1,6,8-tri-Ac: [112516-44-6]. Eumaitenin

$\text{C}_{26}\text{H}_{34}\text{O}_{10}$ M 506.549

Constit. of *Maytenus boaria*. Cryst. (EtOAc/pet. ether).

Mp 183-185°.

9-(3-Pyridinecarbonyl), 6-benzoyl, 1,8-di-Ac: [52691-07-3].

Celapanigine

$\text{C}_{32}\text{H}_{37}\text{NO}_9$ M 579.646

Alkaloid from *C. paniculatus* (Celastraceae). Cryst.

(EtOH). Mp 184-185°.

9-Benzoyl, 1,6,8-tri-Ac: Celafolin C1

$\text{C}_{28}\text{H}_{36}\text{O}_9$ M 516.587

Constit. of *C. stephanotiifolius*. Amorph. powder. $[\alpha]_D$

$+39.4^\circ$ (c, 0.66 in MeOH).

Wagner, H. et al, *Tetrahedron*, 1975, **31**, 1949 (*Celapanine*)

Becerra, J. et al, *Phytochemistry*, 1987, **26**, 3073 (*Eumaitenin*)

Tu, Y.Q. et al, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 1383; 1993, **56**, 122, 126 (*isol*, *pmr*, *cmr*)

Tu, Y.Q. et al, *Phytochemistry*, 1991, **30**, 271; 1992, **31**, 3633 (*isol*, *pmr*, *cmr*)

Takaishi, Y. et al, *Phytochemistry*, 1991, **30**, 1567 (*Triptogelin B2*)

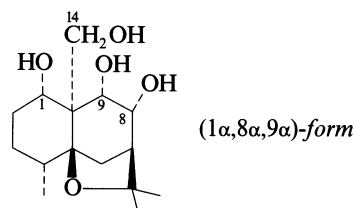
Dagang, W. et al, *Phytochemistry*, 1992, **31**, 4219 (*Angulatueoid H*)

Takaishi, Y. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 815 (*Celafolin C1*)

1,8,9,14-Tetrahydroxydihydro-β-agarofuran

T-10043

Updated Entry replacing T-00655



$\text{C}_{15}\text{H}_{26}\text{O}_5$ M 286.367

(1α,8α,9α)-form

9-Benzoyl, 1,8,14-tri-Ac:

$\text{C}_{28}\text{H}_{36}\text{O}_9$ M 516.587

Constit. of *Celastrus angulatus*. Amorph. $[\alpha]_D^{23}$ -77.6° (c, 0.515 in CHCl_3).

9-Benzoyl, 1,8,14-tri-Ac:

$\text{C}_{28}\text{H}_{36}\text{O}_9$ M 516.587

Constit. of *C. angulatus*. Amorph. $[\alpha]_D^{23}$ -9.2° (c, 0.53 in CHCl_3).

14-(3-Pyridinecarbonyl), 8,9-dibenzoyl, 1-Ac:

$\text{C}_{37}\text{H}_{39}\text{NO}_9$ M 641.716

Constit. of *C. angulatus*. Amorph. powder. $[\alpha]_D^{23}$ -102° (c, 0.53 in CHCl_3).

(1α,8β,9α)-form

9-Benzoyl, 1,8,14-tri-Ac: [133462-15-4]. Angulatueoid C

$\text{C}_{28}\text{H}_{36}\text{O}_9$ M 516.587

Constit. of *C. angulatus*. Cryst. Mp 192-195°. $[\alpha]_D^{23}$ -9.24° (c, 0.53 in CHCl_3).

14-(2-Pyridinecarbonyl), 9-benzoyl, 1,8-di-Ac:

[145042-02-0]. **Angulatueoid D**

$\text{C}_{32}\text{H}_{37}\text{NO}_9$ M 579.646

Constit. of *C. angulatus*. Cryst. Mp 184-185°. Unusual 2-pyridinecarbonyl residue.

14-(3-Pyridinecarbonyl), 9-benzoyl, 1-(2-methylpropanoyl), 8-Ac: [147029-05-8]. Angulatueoid E

$\text{C}_{34}\text{H}_{41}\text{NO}_9$ M 607.699

Constit. of *C. angulatus*. Cryst. (Me_2CO). Mp 175.5-177.5°.

14-(3-Pyridinecarbonyl), 9-benzoyl, 1-propanoyl, 8-Ac:

[147029-06-9]. **Angulatueoid F**

$\text{C}_{33}\text{H}_{39}\text{NO}_9$ M 593.672

Constit. of *C. angulatus*. Cryst. (Me_2CO). Mp 178.5-180.5°.

14-(3-Pyridinecarboxyl), 9-benzoyl, 1-Ac: [145639-84-5].

$\text{C}_{30}\text{H}_{35}\text{NO}_8$ M 537.608

Constit. of *C. angulatus*. Amorph. powder. $[\alpha]_D^{23}$ $+47.6^\circ$ (c, 0.5 in CHCl_3).

14-(3-Pyridinecarbonyl), 9-benzoyl, 8-(2-methylbutanoyl), 1-Ac: [145613-75-8].

$\text{C}_{35}\text{H}_{43}\text{NO}_9$ M 621.726

Constit. of *C. angulatus*. Amorph. powder. $[\alpha]_D^{23}$ $+44.4^\circ$ (c, 0.495 in CHCl_3).

14-(3-Pyridinecarbonyl), 9-benzoyl, 8-(2-methylpropanoyl), 1-Ac: [145613-76-9].

$\text{C}_{34}\text{H}_{41}\text{NO}_9$ M 607.699

Constit. of *C. angulatus*. Amorph. powder. $[\alpha]_D^{23}$ $+49.9^\circ$ (c, 0.505 in CHCl_3).

9,14-Bis-(3-pyridinecarbonyl), 8-benzoyl, 1-Ac: [145047-92-3].

$\text{C}_{36}\text{H}_{38}\text{N}_2\text{O}_9$ M 642.704

Constit. of *Celastrus angulatus*. Amorph. $[\alpha]_D^{23}$ $+45.4^\circ$ (c, 0.52 in CHCl_3).

(1α,8β,9β)-form [42719-36-8]

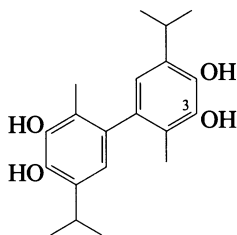
Malkanguniol

C₁₅H₂₆O₅ M 286.367Cryst. Mp 171-172°. [α]_D -32.94° (c, 3 in dioxan).9-Benzoyl, 8-Ac: [52691-06-2]. **Malkangunin**C₂₄H₃₂O₇ M 432.513Constit. of *Celastrus paniculatus*. Cryst. (Et₂O/pet. ether). Mp 240-245°. [α]_D -58.8° (c, 1 in CHCl₃).

9-(3-Furoyl), 1,8,14-tri-Ac:

C₂₆H₃₄O₁₀ M 506.549Constit. of *C. paniculatus*. Amorph. powder.Wagner, H. *et al*, *Tetrahedron*, 1975, **31**, 1949 (*isol*)Lotter, H. *et al*, *Tetrahedron Lett.*, 1978, 3243 (*abs config*)Hong, S. *et al*, *Phytochemistry*, 1991, **30**, 1547 (*deriv*)Tu, Y.Q., *Chin. Chem. Lett.*, 1992, **3**, 625 (*isol, pmr, cmr*)Chunquan, C. *et al*, *Phytochemistry*, 1992, **31**, 2777 (*Angulaturoids C and D*)Tu, Y.Q. *et al*, *Phytochemistry*, 1992, **31**, 3633 (*isol, pmr, cmr*)Tu, Y.Q. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 126 (*isol, pmr, cmr*)Jikai, L. *et al*, *Phytochemistry*, 1993, **32**, 379 (*Angulaturoids E and F*)Yong-Qiang, T. *et al*, *Phytochemistry*, 1993, **32**, 1339 (*isol, pmr, cmr*)**3,3',4,4'-Tetrahydroxy-5,5'-diisopropyl-2,2'-dimethylbiphenyl** T-10044

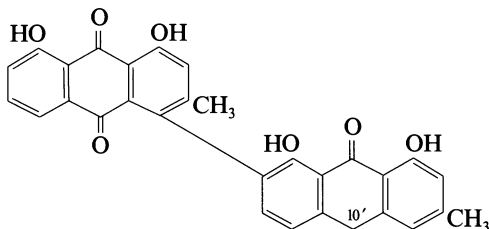
[120901-51-1]

C₂₀H₂₆O₄ M 330.423Constit. of *Thymus vulgaris*. Light brown powder. Mp 104°. [α]_D²⁵ -8.8° (c, 0.51 in CHCl₃).

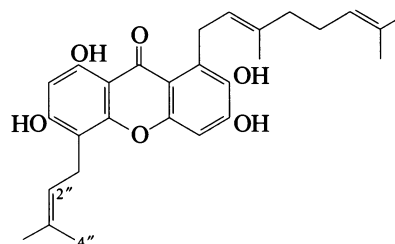
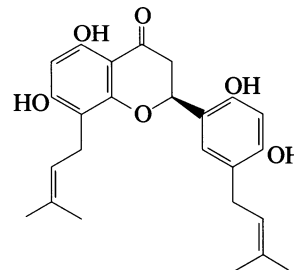
3-Deoxy: [123132-69-4]. 3,4,4'-Trihydroxy-5,5'-diisopropyl-2,2'-dimethylbiphenyl

C₂₀H₂₆O₃ M 314.424Constit. of *T. vulgaris*. Pale brown needles (C₆H₆). Mp 75°. [α]_D²⁵ -48° (c, 0.21 in CHCl₃).Miura, K. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 1816 (*isol, pmr, cmr*)**1,1',8,8'-Tetrahydroxy-3,3'-dimethyl-4,7'-bianthracene-9,9',10(10'H)-trione, 9CI** T-10045

Updated Entry replacing T-00668

C₃₀H₂₀O₇ M 492.484Constit. of the rhizome of *Aloe saponaria*. Yellow needles (Me₂CO). Mp 208-210° dec. [α]_D²⁰ +250° (c, 0.55 in dioxan).10'-C- α -L-Arabinopyranosyl: [138256-96-9].C₃₅H₂₈O₁₁ M 624.600Constit. of the tubers of *Asphodelus ramosus*. Yellow solid.10'-C-(6-Deoxy- β -D-glucopyranoside): [138195-68-3].C₃₆H₃₀O₁₁ M 638.626Constit. of *A. ramosus*. Amorph. solid.10'-C-(6-Deoxy- β -D-gulopyranoside): [138213-69-1].C₃₆H₃₀O₁₁ M 638.626Constit. of *A. ramosus*. Amorph. solid.10'-C- α -L-Rhamnopyranosyl: [138213-68-0].C₃₆H₃₀O₁₁ M 638.626Constit. of *A. ramosus*. Amorph. solid.10'R-C- β -D-Xylopyranoside: [138195-66-1].C₃₅H₂₈O₁₁ M 624.600Constit. of *A. ramosus*. Amorph. solid. Obt. with its C-10' epimer.Yagi, A. *et al*, *Chem. Pharm. Bull.*, 1978, **26**, 1111 (*isol, struct*)Adinolfi, M. *et al*, *Tetrahedron*, 1991, **47**, 4435 (*C-glycosides*)**2,3,6,8-Tetrahydroxy-1-(3,7-dimethyl-2,6-octadienyl)-5-prenylxanthone** T-10046

1-Geranyl-2,3,6,8-tetrahydroxy-5-prenylxanthone

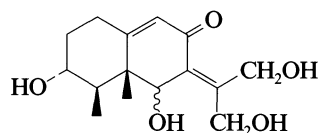
C₂₈H₃₂O₆ M 464.557**(E)-form**2-Me ether: [105742-84-5]. 1-Geranyl-3,6,8-trihydroxy-2-methoxy-5-prenylxanthone. **Isocowanin**C₂₉H₃₄O₆ M 478.584*isol.* from *Garcinia* spp. Yellow clusters (EtOAc/petrol). Mp 160°.2-Me ether, 4''-hydroxy: [105742-85-6]. **Isocowanol**C₂₉H₃₄O₇ M 494.583*Isol.* from *G.* sp. Amorph. solid. C-2'' config. not determined.Ampofo, S.A. *et al*, *Phytochemistry*, 1986, **25**, 2351 (*isol, pmr, cmr*)**2',4',5,7-Tetrahydroxy-5',8-diprenylflavanone** T-10047**Lespedezaflavanone D**C₂₅H₂₈O₆ M 424.493

CA. incorrectly gives the same struct. as 2',4',5,7-Tetrahydroxy-5',6-diprenylflavanone, T-00682.

(S)-formConstit. of the root bark of *Lespedeza davidii*. Yellow needles. Mp 162-163°. [α]_D -23.1° (c, 0.13 in MeOH).Li, J. *et al*, *Phytochemistry*, 1989, **28**, 3564 (*isol*)

**3,6,12,13-Tetrahydroxy-7(11),9-
eremophiladien-8-one**

T-10048



$C_{15}H_{22}O_5$ M 282.336
(3 α ,6 ζ)-form [129602-08-0]

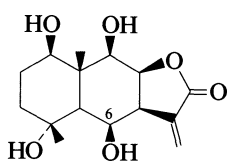
Metab. of *Drechslera gigantea*.

Sugawara, F. *et al*, *Biosci., Biotechnol., Biochem.*, 1993, **57**, 236
(*isol, pmr*)

**1,4,6,9-Tetrahydroxy-11(13)-eudesmen-
12,8-olide**

T-10049

Updated Entry replacing T-00715

(1 β ,4 α ,5 α OH,6 β ,8 β ,9 β)-form

$C_{15}H_{22}O_6$ M 298.335
(1 β ,4 α ,5 α OH,6 β ,8 β ,9 β)-form

1,9-Di-Ac: **Trilobolide**[†]

$C_{19}H_{26}O_8$ M 382.410

6-(Methylpropanoyl), 1,9-di-Ac:

$C_{23}H_{32}O_9$ M 452.500

Constit. of *Wedelia trilobata*. Cryst. (Et₂O). Mp 230-231°. [α]_D²⁴ + 30.8° (c, 0.7 in CHCl₃).

6-Angeloyl, 1,9-di-Ac:

$C_{24}H_{32}O_9$ M 464.511

Constit. of *W. trilobata*. Cryst. (Et₂O). Mp 180-186°. [α]_D²⁴ + 12.8° (c, 0.6 in CHCl₃).

6-(Methylpropenoyl), 1,9-di-Ac:

$C_{23}H_{30}O_9$ M 450.485

Constit. of *W. trilobata*. Gum.

(1 β ,4 α ,5 β OH,6 β ,8 α ,9 α)-form
Prostatolide

6-(Methylpropanoyl), 1-Ac:

$C_{21}H_{30}O_8$ M 410.463

Constit. of *W. prostata*. Cryst. Mp 195-196°. [α]_D + 31° (c, 0.02 in CHCl₃).

6-(Methylpropanoyl), 1,9-di-Ac:

$C_{23}H_{32}O_9$ M 452.500

Constit. of *W. prostata*. Cryst. Mp 222-223°. [α]_D + 112° (c, 0.02 in CHCl₃).

6-(Methylpropenoyl), 1-Ac:

$C_{21}H_{28}O_8$ M 408.447

Constit. of *W. prostata*.

6-(Methylpropenoyl), 1,9-di-Ac:

$C_{23}H_{30}O_9$ M 450.485

Constit. of *W. prostata*. Cryst. Mp 213-214°. [α]_D + 90° (c, 0.2 in CHCl₃).

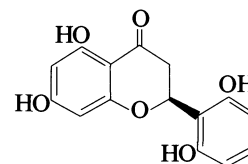
Bohlmann, F. *et al*, *Phytochemistry*, 1981, **20**, 751.

Ragasa, C.Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 386
(*Prostatolide derivs*)

2',5,6',7-Tetrahydroxyflavanone

T-10050

Updated Entry replacing T-00729
[104125-36-2]



$C_{15}H_{12}O_6$ M 288.256

(S)-form [80604-16-6]

Isol. from dried roots of *Scutellaria baicalensis* and from the drug *Scutellaria Radix*. Prisms (EtOAc/hexane). Mp 240° dec. [α]_D²² + 6.13° (c, 1.02 in MeOH).

5-Me ether: [92519-96-5]. 2',6',7-Trihydroxy-5-methoxyflavanone

$C_{16}H_{14}O_6$ M 302.283

Isol. from *S. baicalensis*. Mp 211° dec.

7-Me ether: [129138-49-4]. 2',5,6'-Trihydroxy-7-methoxyflavanone. **Scutamoenin**

$C_{16}H_{14}O_6$ M 302.283

Constit. of the roots of *S. amoena*.

7-Me ether, 2'-O- β -D-glucopyranoside: [123914-35-2].

Scuteamoenoside

$C_{22}H_{24}O_{11}$ M 464.425

Constit. of the roots of *S. amoena*.

Kubo, M. *et al*, *Planta Med.*, 1981, **43**, 194.

Kimura, Y. *et al*, *Chem. Pharm. Bull.*, 1982, **30**, 1792.

Tomimori, T. *et al*, *Yakugaku Zasshi*, 1984, **104**, 529 (*deriv*)

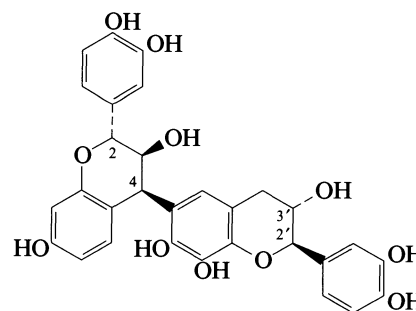
Tanaka, T. *et al*, *Yakugaku Zasshi*, 1987, **107**, 315 (*synth*)

Hu, B.H. *et al*, *Yaoxue Xuebao*, 1989, **24**, 200; 1990, **25**, 302; *CA*, **111**, 228966; **113**, 112503 (*Scuteamoenoside, Scuteamoenin*)

**3,3',4',7-Tetrahydroxyflavan(4→6)-
3,3',4',7,8-pentahydroxyflavan**

T-10051

2,2'-Bis(3,4-dihydroxyphenyl)-3,3',4,4'-tetrahydro-[4,6'-bi-2H-1-benzopyran]-3,3',7,7',8'-pentol, 9CI



$C_{30}H_{26}O_{11}$ M 562.529

(2R,2'R,3S,3'S,4S)-form [109701-80-6] **Fisetinidol(4 α →6)
mesquitol**

Constit. of the heartwood of *Prosopis glandulosa*.

Young, E. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1986, 1737 (*isol*)

3',4',5,7-Tetrahydroxyflavone

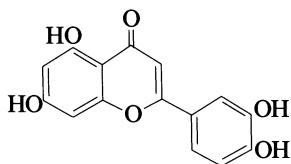
T-10052

Updated Entry replacing T-00771

2-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-4H-1-benzopyran-4-one, 9CI. **Luteolin**. Digitoflavone. Daphneflavonol.

Flavopurpol

[491-70-3]

C₁₅H₁₀O₆ M 286.240

Various methyl and methylene ethers have separate entries. Occurs in many plants in Leguminosae, Resedaceae, Euphorbiaceae, Umbelliferae, Scrophulariaceae, Fabaceae, Asteraceae, Cistaceae, Passifloraceae, Yerbenaceae and Hepaticae. First isol. in 1832 from *Reseda luteola*. Shows anti-HIV activity. Used in EtOH soln. for colour reactions with Al, Be, Cd, Cu, Zr, B. Yellow needles. Mp 328-330° (325°).

▷ LD₅₀ (mus, ipr) 180 mg/kg. Exp. reprod. effects. LK9275210.

7-O-β-D-Glucopyranoside: [5373-11-5]. **Glucoluteolin**. Cynaroside. Cinaroside. Luteoloside. Cynaroside.

Flavopurposide. Daphneflavonolside

C₂₁H₂₀O₁₁ M 448.382

Widespread in plants. The commonest of all flavone glycosides. Needles + 1½H₂O (EtOH), yellow needles + 2H₂O (Me₂CO aq.). Mp 256-258° (254°).

7-O-Neohesperidoside: [25694-72-8]. **Veronicastrósíde**. Lonicerin†

C₂₇H₃₀O₁₅ M 594.525

Constit. of *Veronicastrum sibiricum*, *V. japonicum*, and *Lonicera japonica*. Cryst. (MeOH). Mp 249-251°.

7-O-Primeveroside: [19870-44-1]. **Cesioside**

C₂₆H₂₈O₁₅ M 580.498

Isol. from *Salix caesia*, *S. repens* and *Campanula rotundiflora*. Pale-yellow needles (EtOH aq.). Mp 225-227°. [α]_D²⁰ -220° (0.1M NaOH aq.).

3'-O-β-D-Glucopyranoside: [5154-41-6]. **Dracocephalósíde**

C₂₁H₂₀O₁₁ M 448.382

Isol. from *Dracocephalum thymiflorum* and other plants. Mp 243-245°. [α]_D -103° (c, 0.33 in Py/MeOH/H₂O 1:1:1).

4'-O-α-L-Arabinoside:

C₂₀H₁₈O₁₀ M 418.356

Isol. from *Hieracium umbellatum*.

5-O-β-D-Galactopyranoside: [64662-18-6].

C₂₁H₂₀O₁₁ M 448.382

Isol. from *Dracocephalum nutans*.

7-O-β-D-Galactopyranoside: [68321-11-9].

C₂₁H₂₀O₁₁ M 448.382

Isol. from *Capsella bursa-pastoris* and *Lonicera microphylla*.

3'-O-β-D-Galacturonoside: [56317-12-5].

C₂₁H₁₈O₁₂ M 462.366

Isol. from *Marchantia berteroana*.

7-O-β-D-Galacturonoside: [56324-53-9].

C₂₁H₁₈O₁₂ M 462.366

Isol. from *Marchantia berteroana*.

4'-O-β-D-Glucopyranoside: [6920-38-3]. **Juncein†**

C₂₁H₂₀O₁₁ M 448.382

Isol. from *Spartium junceum* and many other plant spp. Mp 178-179°.

5-O-β-D-Glucopyranoside: [20344-46-1]. **Galuteolin**

C₂₁H₂₀O₁₁ M 448.382

Isol. from *Galega officinalis* and other plant spp. Yellow needles (EtOH aq.). Mp 260-280° dec.

3'-O-β-D-Glucuronoside: [53527-42-7].

C₂₁H₁₈O₁₂ M 462.366

Isol. from *Lunularia cruciata*, *Ricciocarpus natans*, *Riella* spp. and *Marchantia* spp. No phys. props. reported.

4'-O-β-D-Glucuronoside: [53527-43-8].

C₂₁H₁₈O₁₂ M 462.366

Isol. from *Riccia fluitans*.

5-O-β-D-Glucuronoside: [80358-01-6].

C₂₁H₁₈O₁₂ M 462.366

Isol. from *Torilis arvensis*.

7-O-β-D-Glucuronoside: [29741-10-4].

C₂₁H₁₈O₁₂ M 462.366

Isol. from *Antirrhinum majus*, *Chrysanthemum* sp., *Scutellaria* spp. and other plants.

7-O-β-D-Glucuronoside, Me ester: [76939-42-9].

C₂₂H₂₀O₁₂ M 476.393

Isol. from *Digitalis lanata*. Mp 206° (as per-Ac).

3'-O-α-L-Rhamnopyranoside: [99694-79-8].

C₂₁H₂₀O₁₀ M 432.383

Isol. from *Phyllocladus* spp. [α]_D²⁰ -95° (MeOH).

7-O-α-L-Rhamnopyranoside: [18016-54-1].

C₂₁H₂₀O₁₀ M 432.383

Isol. from *Phyllocladus* spp.

3'-O-β-D-Xylopyranoside: [93078-91-2].

C₂₀H₁₈O₁₀ M 418.356

Isol. from *Podocarpus nivalis*.

7-O-β-D-Xyloside: [98575-26-9].

C₂₀H₁₈O₁₀ M 418.356

Isol. from *Thymus membranaceus*.

7-O-[D-Apiofuranosyl(1→2)-β-D-glucopyranoside]: [63808-23-1]. **Graveobioside A**

C₂₆H₂₈O₁₅ M 580.498

Isol. from *Apium graveolens* and *Petroselinum crispum*.

7-O-(Arabinosylglucoside): [34055-20-4].

C₂₆H₂₈O₁₅ M 580.498

Isol. from *Vernonia* spp.

7-O-Gentiobioside: Luteolin 7-gentiobioside. **Glucoluteoloside**

C₂₇H₃₀O₁₆ M 610.524

Isol. from *Dahlia variabilis*. Mp 239°.

7-O-(β-D-Glucopyranosylgalactoside): [31511-40-7].

C₂₇H₃₀O₁₆ M 610.524

Isol. from *Tragopogon dasyrhyinchus*.

7-O-(Galactosylglucopyranoside):

C₂₇H₃₀O₁₆ M 610.524

Isol. from *Vernonia* spp.

7-O-Digalactoside: [68566-74-5].

C₂₇H₃₀O₁₆ M 610.524

Isol. from *Cephalaria procera*. Yellow needles (MeOH aq.). Mp 220-222°.

3',4'-Di-O-galacturonoside: [56317-14-7].

C₂₇H₂₆O₁₈ M 638.492

Isol. from *Marchantia berteroana*.

3',7-Di-O-galacturonoside: [56317-13-6].

C₂₇H₂₆O₁₈ M 638.492

Isol. from *Marchantia berteroana*.

3',4'-Di-O-glucopyranoside:

C₂₇H₃₀O₁₆ M 610.524

Isol. from *Listera ovata*.

3',7-Di-O-glucopyranoside: [52187-80-1].

C₂₇H₃₀O₁₆ M 610.524

Isol. from *Reseda luteola* and *Launaea* spp.

4',7-Di-O-glucopyranoside: [70404-47-6].

C₂₇H₃₀O₁₆ M 610.524

Isol. from *Launaea* spp., *Antennaria dioica* and other plant spp.

3',7-Di-O-glucuronoside: [53965-08-5].

C₂₇H₂₆O₁₈ M 638.492

Isol. from *Marchantia polymorpha*.

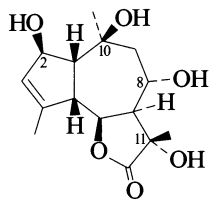
- 3',4'-Di-O-glucuronoside: [53527-41-6].
C₂₇H₂₆O₁₈ M 638.492
Isol. from *Lunularia cruciata*.
- 4',7-Di-O-glucuronoside: [53965-09-6].
C₂₇H₂₆O₁₈ M 638.492
Isol. from *Marchantia polymorpha*.
- 7-O-(Glucosylglucuronoside):
C₂₇H₂₈O₁₇ M 624.508
Isol. from *Digitalis purpurea*.
- 7-O-Sambubioside: [99694-75-4].
C₂₆H₂₈O₁₅ M 580.498
Isol. from *Thymus membranaceus* and *Teucrium gnaphalodes*.
- 7-O-Rutinoside: [20633-84-5]. **Scolymoside**. **Scolimoside**
C₂₇H₃₀O₁₅ M 594.525
Isol. from *Capsella bursa-pastoris*, *Centaurea* sp.,
Chrysanthemum sp., *Cynara scolymus* and other plants.
Cryst. + 1H₂O (MeOH). Mp 192-196° (186-189°). [α]_D²⁷
– 50.98° (Py).
- 7-O-(Glucosylrhamnoside):
C₂₇H₃₀O₁₅ M 594.525
Isol. from *Wisteria sinensis*.
- 7-O-Laminaribioside: [29276-58-2].
C₂₇H₃₀O₁₆ M 610.524
Isol. from *Colchicum speciosum*.
- 7-O-[Glucuronosyl-(1→2)-glucuronoside]: [96400-45-2].
C₂₇H₂₆O₁₈ M 638.492
Isol. from *Elodea canadensis*, *Secale cereale* and *Perilla frutescens*.
- 3'-O-Xylopyranoside, 7-O-glucopyranoside: [102506-55-8].
C₂₆H₂₈O₁₅ M 580.498
Isol. from *Podocarpus nivalis*.
- 3'-O-Glucopyranoside, 7-O-glucuronoside: [69631-14-7].
C₂₇H₂₈O₁₇ M 624.508
Isol. from *Riccia fluitans*.
- 3'-O-(O-Feruloylglucopyranoside), 7-O-glucuronoside:
[69645-80-3].
C₃₇H₃₆O₂₀ M 800.679
Isol. from *Riccia fluitans*.
- 4'-O-Glucopyranoside, 7-O-galactopyranoside:
C₂₇H₃₀O₁₆ M 610.524
Isol. from *Vernonia* spp.
- 4'-O-Rhamnoside, 7-O-glucuronoside: [58970-80-2].
C₂₇H₂₈O₁₆ M 608.509
Isol. from *Conocephalum conicum*.
- 4'-O-β-D-Glucofuranoside, 7-O-[α-L-arabinofuranosyl-(1→6)-β-D-glucopyranoside]: [52714-84-8].
C₃₂H₃₈O₂₀ M 742.640
Isol. from *Galium mollugo*.
- 7-O-(Rhamnosylglucosylglucoside):
C₃₃H₄₀O₂₀ M 756.667
Isol. from *Wisteria sinensis*.
- 4'-O-β-D-Glucopyranoside, 7-O-rutinoside: [20056-21-7].
Cynarotrioside
C₃₃H₄₀O₂₀ M 756.667
Isol. from *Cynara scolymus*. Cryst. (Me₂CO aq.). Mp
274-276°.
- 4'-O-Glucopyranoside, 7-O-neohesperidoside: [70404-41-0].
C₃₃H₄₀O₂₀ M 756.667
Isol. from *Hedwigia ciliata*. [α]_D²⁴ – 66.0° (c, 0.15 in Py).
- 3',4'-Di-O-rhamnoside, 7-O-glucuronoside: [58970-77-7].
C₃₃H₃₈O₂₀ M 754.651
Isol. from *Conocephalum conicum*.
- 3'-O-Glucopyranoside, 4',7-di-O-glucuronoside: [69631-11-4].
C₃₃H₃₆O₂₃ M 800.634
Isol. from *Riccia fluitans*.
- 4'-O-β-D-Glucuronoside, 7-O-[β-D-glucuronosyl-(1→2)-β-D-glucuronoside]: [101849-03-0].
C₃₃H₃₄O₂₄ M 814.617
Isol. from *Secale cereale*.
- 3',4',7-Tri-O-glucuronoside: [53965-10-9].
C₃₃H₃₄O₂₄ M 814.617
Isol. from *Marchantia polymorpha*.
- 4'-O-Sophoroside, 7-O-neohesperidoside: [63043-64-1].
C₃₉H₅₀O₂₅ M 918.809
Isol. from *Hedwigia ciliata*. Mp 219-223°. [α]_D²⁵ – 90.1°
(c, 1.34 in H₂O).
- 7-O-(2-p-Hydroxycinnamoylglucopyranoside): [95596-61-5].
Luteolin 7-(2-coumaroylglucoside)
C₃₀H₂₆O₁₃ M 594.528
Isol. from *Barleria prionitis*.
- 7-O-(3,4-Dihydroxycinnamoylglucoside): [79366-63-5].
Luteolin 7-(caffeoylglucoside)
C₃₀H₂₆O₄ M 450.533
Isol. from *Perilla frutescens*.
- 7-O-(6-Malonylglucoside): [98767-38-5].
C₂₄H₂₂O₁₄ M 534.429
Isol. from *Bryum capillare*.
- 7-O-[3'-Acetyl-D-apio-β-D-furanosyl-(1→2)-β-D-xylopyranoside]: [63902-77-2]. **Campanoside**
C₂₇H₂₈O₁₅ M 592.509
Isol. from *Campanula patula*.
- 3'-O-Feruloylglucoside, 4',7-di-O-glucuronoside: [69631-12-5].
C₄₃H₄₄O₂₆ M 976.805
Isol. from *Riccia fluitans*.
- 3'-O-Sulfate: [59176-61-3].
C₁₅H₁₀O₉S M 366.305
Isol. from *Lachenalia unifolia*.
- 4'-O-Sulfate: [60889-07-8].
C₁₅H₁₀O₉S M 366.305
Isol. from *Daucus carota*.
- 7-O-Sulfate: [56857-57-9].
C₁₅H₁₀O₉S M 366.305
Isol. from *Bixa orellana*.
- 3',7-Di-O-sulfate: [59176-62-4].
C₁₅H₁₀O₁₂S₂ M 446.369
Isol. from *Zostera marina*.
- 7-O-(Sulfooxyglucoside):
C₂₁H₂₀O₁₄S M 528.447
Isol. from *Phoenix roebelenii*.
- 7-O-(Sulfooxyglucuronoside): [88849-97-2].
C₂₁H₁₈O₁₅S M 542.430
Isol. from *Fuchsia* spp.
- 3'-O-β-D-Glucopyranoside, 7-O-sulfate: [33530-70-0].
C₂₁H₂₀O₁₄S M 528.447
Isol. from *Mascarena verschaffeltii*. Obt. as K salt.
- 7-O-(Sulfooxyrutinoside):
C₂₇H₃₀O₁₈S M 674.589
Isol. from *Washingtonia robusta*.
- 3'-O-Rutinoside, 7-O-sulfate:
C₂₇H₃₀O₁₈S M 674.589
Isol. from *Opsiandra maya*.
- 7-O-(6-O-p-Hydroxycinnamoyl-β-D-glucopyranoside):
Bignonoside
C₃₀H₂₆O₁₃ M 594.528
Isol. from *Catalpa bignonioides* and *Dracocephalum thymiflorum*. Cryst. Mp 182°.
- 3'-O-(O-Acetyl-β-D-glucuronoside):
C₂₃H₂₀O₁₃ M 504.403
Isol. from *Rosmarinus officinalis*.
- 5-O-(6-O-Malonyl-β-D-glucopyranoside): [130733-27-6].
C₂₄H₂₂O₁₄ M 534.429
Isol. from *Equisetum arvense*.
- 7-O-(2-Hydroxypropanoyl): [126394-95-4]. **Luteolin 7-lactate**
C₁₈H₁₄O₈ M 358.304
Isol. from *Marrubium vulgare*. Dark yellow powder.

- 7-O-(2-β-D-Glucopyranosyloxypropanoyl): [126394-93-2].
Luteolin 7-(2-glucosyllactate)
C₂₄H₂₄O₁₃ M 520.446
Isol. from *M. vulgare*. Dark yellow powder.
- 7-O-(2-β-D-Glucuronosyloxypropanoyl): [126394-91-0].
Luteolin 7-(2-glucuronosyllactate)
C₂₄H₂₂O₁₄ M 534.429
Isol. from *M. vulgare*. Dark yellow powder.
- 7-O-(6-O-Acetyl-β-D-glucopyranoside): [60355-68-2].
C₂₃H₂₂O₁₂ M 490.420
Isol. from *Salix gilgiana*. Yellow needles (MeOH). Mp 224-227°.
- 3'-O-β-D-Glucopyranoside, 7-O-rutinoside: [118024-86-5].
C₃₃H₄₀O₂₀ M 756.667
Isol. from *Campanula persicifolia*.
- 4'-O-Neohesperidoside: [70404-48-7].
C₂₇H₃₀O₁₅ M 594.525
Isol. from *Caralluma tuberculata*.
- 7-O-Di-α-L-rhamnopyranoside: [131405-85-1].
C₂₇H₃₀O₁₄ M 578.526
Isol. from *Asplenium normale*.
- 7-O-(6'''-O-Acetylsophoroside): [135546-08-6].
Linariifolioside
C₂₉H₃₂O₁₇ M 652.562
Isol. from *Veronica linariifolia* ssp. *dilatata*. Mp 232-234°.
- 7-O-(6-O-E-Cinnamoyl-β-D-glucopyranoside): [111150-40-4].
C₃₀H₂₆O₁₂ M 578.528
Isol. from *S. gilgiana*. Yellow needles (MeOH). Mp 225°.
- 7-O-(6-O-p-Hydroxycinnamoyl-β-D-glucopyranoside): [111188-76-2]. Luteolin 7-(6-p-Coumaroylglucoside)
C₃₀H₂₆O₁₃ M 594.528
Isol. from *S. gilgiana*. Powder (MeOH). Mp 273-275°.
- 7-O-(6-O-4-Hydroxy-3-methoxycinnamoyl-β-D-glucopyranoside): [111150-41-5]. Luteolin 7-(6-feruloylglucoside)
C₃₁H₂₈O₁₄ M 624.554
Isol. from *S. gilgiana*. Pale yellow powder (MeOH). Mp 201-203°.
- 7-O-[α-L-Arabinofuranosyl-(1→6)-β-D-glucopyranoside]: [111537-40-7].
C₂₆H₂₈O₁₅ M 580.498
Isol. from *Dacrydium intermedium* and *D. laxifolium*.
- 7-O-[α-L-Arabinopyranosyl-(1→6)-β-D-glucopyranoside]: [52714-82-6].
C₂₆H₂₈O₁₅ M 580.498
Isol. from *D. intermedium*, *D. laxifolium*, and *Galium mollugo*.
- 7-O-[6-O-Acetylallosyl-(1→2)-β-D-glucopyranoside]: [135649-96-6].
C₂₉H₃₂O₁₇ M 652.562
Isol. from *Stachys aegyptiaca*.
- 7-O-[β-L-Arabinopyranosyl-(1→6)-β-D-glucopyranoside]: [80324-88-5]. **Rotundiside**
C₂₆H₂₈O₁₅ M 580.498
Isol. from *Campanula rotundiflora*. Mp 193-196°.
- 7-O-[β-D-Allopyranosyl-(1→2)-β-D-glucopyranoside]: [113471-89-9].
C₂₇H₃₀O₁₆ M 610.524
Constit. of *Sideritis maura*.
- 4'-O-β-D-Glucopyranoside, 7-O-β-D-galacturonoside: [126207-52-1].
C₂₇H₂₈O₁₇ M 624.508
Isol. from *Cuminum cyminum*.
- 7-O-(6''-O-Malonylneohesperidoside): [127350-65-6].
C₃₀H₃₂O₁₈ M 680.572
Isol. from *Bryum pseudotriquetrum*.
- 7-O-(Disulfoglucoside): [121283-87-2].
C₂₁H₂₀O₁₇S₂ M 608.511
Isol. from *Phoenix dactylifera*.
- 5(7)-Galactoside, 7(5)-xyloside:
C₂₆H₂₈O₁₅ M 580.498
Isol. from leaves and stems of *Genista tinctoria*.
- O-Glucoside (1): **Chaerophyllin†**
C₂₁H₂₀O₁₁ M 448.382
Isol. from *Chaerophyllum silvestre* and other Umbelliferae. Light yellow needles (EtOH aq.). Mp 260°. Full struct. not known.
- O-Glucoside (2): **Paspalioside**
C₂₁H₂₀O₁₁ M 448.382
Isol. from *Paspalum conjugatum*. Light yellow needles (EtOH). Mp 274-276°. Full struct. not known.
- 7-O-Diglucoside: [31511-92-9]. Luteolin 7-diglucoside
C₂₇H₃₀O₁₆ M 610.524
Isol. from aerial parts of *Lathyrus pratensis*.
- 7-O-(Rhamnosylglucoside): [36473-51-5].
C₂₇H₃₀O₁₅ M 594.525
Constit. of *Citrus* sp., *Sophora* sp., *Thermopsis* sp. and other plant spp.
- 7-O-[β-D-Galactopyranosyl-(1→6)-β-D-galactopyranoside]: [142561-45-3].
C₂₇H₃₀O₁₆ M 610.524
Isol. from the roots of *Anogeissus latifolia*.
- 3',4'-Methylene ether: [79339-34-7]. 5,7-Dihydroxy-3',4'-methylenedioxyflavone
C₁₆H₁₀O₆ M 298.251
Constit. of the seeds of *Cassia marginata*. Yellow cryst. (EtOAc). Mp 265-268° (263-265°).
- 4',5-Di-Me ether: [72629-61-9]. 3',7-Dihydroxy-4',5-dimethoxyflavone. Luteolin 4',5-dimethyl ether
C₁₇H₁₄O₆ M 314.294
Isol. from *Phyllospadix japonica*.
- 3',4',7-Tri-Me ether: 5-Hydroxy-3',4',7-trimethoxyflavone. Luteolin 3',4',7-trimethyl ether
C₁₈H₁₆O₆ M 328.321
Constit. of *Piper peepuloides*, *Arnica* spp. and *Salvia* spp. Yellow needles (EtOH). Mp 171-172° (161-163°).
- 5,7-Di-Me ether, 3',4'-methylene ether: [89029-12-9]. 5,7-Dimethoxy-3',4'-methylenedioxyflavone
C₁₈H₁₄O₆ M 326.305
Isol. from *Zygogynum pauciflorum*.
- [18695-03-9, 54985-16-9, 62804-16-4, 98716-92-8]
Perkin, A.G., *J. Chem. Soc.*, 1900, **77**, 1315 (isol)
Diller, E., *Ber.*, 1901, **34**, 1452 (isol)
Lovecy, A. et al, *J. Chem. Soc.*, 1930, 817.
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Hattori, S. et al, *J. Am. Chem. Soc.*, 1954, **76**, 5792 (Glucoluteolin)
Hörhammer, L. et al, *Arch. Pharm. (Weinheim, Ger.)*, 1958, **291**, 44 (Chaerophyllin)
Spada, A. et al, *Gazz. Chim. Ital.*, 1958, **88**, 204 (4'-glucoside)
Litvinenko, V.I. et al, *CA*, 1965, **63**, 10233c (Dracocephalioside)
Birkhofer, L. et al, *Z. Naturforsch., B*, 1965, **20**, 923 (Bignonoside)
Drarik, L.I. et al, *Khim. Prir. Soedin.*, 1966, **2**, 16 (Cynarotrioside)
Thieme, H., *Tetrahedron Lett.*, 1968, 2781 (derivs)
Inouye, H. et al, *Chem. Ber.*, 1969, **102**, 3009 (synth)
Bandyukova, V.A., *Khim. Prir. Soedin.*, 1969, 595 (laminaribioside)
Dhar, K.L. et al, *Planta Med.*, 1970, **18**, 337 (isol, deriv)
Kingston, D.G.I., *Tetrahedron*, 1971, **27**, 2691 (ms)
Nevskaya, E.M., *Zh. Anal. Khim.*, 1972, **27**, 1699 (use)
Karrer, W. et al, *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd Ed., Birkhäuser Verlag, Basel, 1972-1985, 1470, 1473 (occur)
Markham, K.R. et al, *Phytochemistry*, 1974, **13**, 1553; 1975, **14**, 1093; 1978, **17**, 1601; 1984, **23**, 2049; 1985, **24**, 2607 (xylosides, rhamnosides, 3'-xyloside, 7-glucoside, galacturonides, glucuronides)
Wagner, H. et al, *Tetrahedron Lett.*, 1976, 1799 (nmr)
Shamyryna, A.A. et al, *Khim. Prir. Soedin.*, 1977, **13**, 577 (5-galactoside)

- Chari, V.M. *et al*, *Phytochemistry*, 1977, **16**, 1273 (*nmr*)
 Markham, K.R. *et al*, *Tetrahedron*, 1978, **34**, 1389 (*cmr*,
glucosides)
 Osterdahl, B.-G., *Acta Chem. Scand., Ser. B*, 1979, **33**, 119; 1983,
37, 69.
 Takagi, M. *et al*, *Agric. Biol. Chem.*, 1979, **43**, 2417 (*isol*, 4',5-
dimethyl ether)
 Devi, G. *et al*, *Indian J. Chem., Sect. B*, 1979, **17**, 75 (3',4',7-
trimethyl ether)
 Makkul, M.A. *et al*, *Khim. Prir. Soedin.*, 1979, **15**, 725; *Chem.*
Nat. Compd. (Engl. Transl.), 640 (*Scolymoside*)
 Van der Westhuizen, J.H. *et al*, *J. Chem. Soc., Perkin Trans. 1*,
 1980, 1003 (3',4',7-trimethyl ether)
 Belenovskaya, L.M. *et al*, *Khim. Prir. Soedin.*, 1980, **16**, 835
 (*Campanoside*)
 Teslov, L.S., *Khim. Prir. Soedin.*, 1981, 520 (*Rotundiside*)
 Reynaud, J. *et al*, *Phytochemistry*, 1981, **20**, 2052 (7-digluconide)
 Hiermann, A., *Planta Med.*, 1982, **45**, 59 (7-glucuronide Me ester)
 Saleh, N.A.M. *et al*, *Phytochemistry*, 1983, **22**, 1417 (5-glucuronide)
 Voirin, B., *Phytochemistry*, 1983, **22**, 2107 (*uv*)
 Mansour, R.M.A. *et al*, *Phytochemistry*, 1983, **22**, 2630 (*derivs*)
 Schulz, M. *et al*, *Phytochemistry*, 1985, **24**, 343 (*glucuronosides*)
 Tomas, F. *et al*, *Z. Naturforsch., C*, 1985, **40**, 583.
 Cody, V. *et al*, *PFBM1*, A.R. Liss, N.Y., 1986 (*biol, prop*)
 Cody, V. *et al*, *Plant Flavenoids in Biology and Medicine*, A. R.
 Liss, N. Y., 1986 (*biol, prop*)
 Markham, K.R. *et al*, *J. Nat. Prod. (Lloydia)*, 1987, **50**, 660
 (*derivs*)
 Mizuno, M. *et al*, *Phytochemistry*, 1987, **26**, 2418 (7-acylglucosides)
 Cody, V. *et al*, *Plant Flavenoids in Biology and Medicine II*, A.R.
 Liss, N.Y., 1988 (*biol prop*)
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 J.B.), Chapman and Hall, London, 1988.
 Gupta, V. *et al*, *Indian J. Chem., Sect. B*, 1989, **28**, 92 (3',4'-
methylene ether)
 Nawwar, M.A.M. *et al*, *Phytochemistry*, 1989, **28**, 3201 (7-lactates)
 Ono, K., *Eur. J. Biochem.*, 1990, **190**, 469 (*anti-HIV activity*)
 Ahond, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 875 (5,7-Di-Me-
 3',4'-methylene ether)
 Veit, M. *et al*, *Phytochemistry*, 1990, **29**, 2555 (5-glucoside, *pmr*,
cmr)
 Stein, W. *et al*, *Z. Naturforsch., C*, 1990, **45**, 25 (7-
malonylneohesperidoside)
 Nagarathnam, D. *et al*, *J. Org. Chem.*, 1991, **56**, 4884 (*synth*)
 El-Ansari, M.A. *et al*, *Phytochemistry*, 1991, **30**, 1169 (*derivs*)
 Ma, C.Y. *et al*, *Yaoxue Xuebao*, 1991, **26**, 203; *CA*, **115**, 89112
 (*Linariifolioside*)

2,8,10,11-Tetrahydroxy-3-guaien-12,6-olide T-10053

Updated Entry replacing T-00802



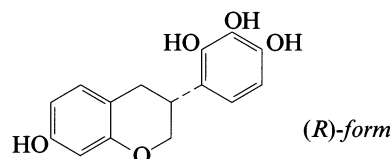
- $C_{15}H_{22}O_6$ M 298.335
 (1 β ,2 β ,5 β ,6 β ,8 α ,10 β ,11 α)-form
 2,8,10,11-Tetrahydroxy-3-slovenolide
 2-O-(2-Methylbutanoyl), 8-O-angeloyl, 11-Ac:
 $C_{27}H_{38}O_9$ M 506.592
 Constit. of roots of *Laser trilobum*. Gum. $[\alpha]_D^{20}$ –66.4°.
 2-O-Angeloyl, 8-O-(2-methylbutanoyl), 10,11-di-Ac: [41929-
 11-7]. *Archangelolide*
 $C_{29}H_{40}O_{10}$ M 548.629
 Constit. of *Laser trilobum* and *Laserpitium archangelica*.
 Cryst. (Et₂O). Mp 109-112°. $[\alpha]_D$ –120.2° (MeOH).
 8-(3-Methyl-2-butenoyl), 2,10,11-tri-Ac:
 $C_{26}H_{34}O_{10}$ M 506.549

- Constit. of *Thapsia villosa*. Amorph. powder. $[\alpha]_D^{26}$
 –108° (c, 0.29 in MeOH).
 8-(2-Methylbutanoyl), 2,10,11-tri-Ac:
 $C_{26}H_{36}O_{10}$ M 508.564
 Constit. of *T. villosa*. Amorph. $[\alpha]_D^{26}$ –113° (c, 0.21 in
 MeOH).
 8-(3-Methyl-2-butenoyl), 10,11-di-Ac:
 $C_{24}H_{32}O_9$ M 464.511
 Constit. of *T. villosa*. Amorph. powder. $[\alpha]_D$ –129° (c,
 0.2 in MeOH).
 8-(2-Methylbutanoyl), 10,11-di-Ac:
 $C_{24}H_{34}O_9$ M 466.527
 Constit. of *T. villosa*. Amorph. powder. $[\alpha]_D^{26}$ –50° (c,
 0.24 in MeOH).
 8-(2-Methylbutanoyl), 2-(3-methylbutanoyl), 10-Ac:
 $C_{27}H_{40}O_9$ M 508.608
 Constit. of *T. transtagana*.
 2-(2-Methylbutanoyl), 8-butanoyl, 10-Ac:
 $C_{26}H_{38}O_9$ M 494.581
 Constit. of *T. transtagana* and *T. garganica*.
 Holub, M. *et al*, *Collect. Czech. Chem. Commun.*, 1973, **38**, 731;
 1978, **43**, 2444 (*isol, struct*)
 Holub, M. *et al*, *Tetrahedron Lett.*, 1984, **25**, 3755 (*isol*)
 Smitalová, Z. *et al*, *Collect. Czech. Chem. Commun.*, 1986, **51**,
 1323 (*isol*)
 Smitt, U.W. *et al*, *J. Nat. Prod. (Lloydia)*, 1990, **53**, 1479 (*derivs*)
 Avato, P. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 411 (*isol*)

2',3',4',7-Tetrahydroxyisoflavan T-10054

Updated Entry replacing T-00813

3,4-Dihydro-7-hydroxy-3-(2,3,4-trihydroxyphenyl)-2H-1-
 benzopyran



- $C_{15}H_{14}O_5$ M 274.273
 (R)-form
 2'-Me ether: [65466-13-9]. 3',4',7-Trihydroxy-2'-
 methoxyisoflavan. *Cyclolobin*
 $C_{16}H_{16}O_5$ M 288.299
 Lit. inaccessible. Prob. not a nat. prod.
 2',4'-Di-Me ether: see 3',7-Dihydroxy-2',4'-
 dimethoxyisoflavan, D-01705
 3',4'-Di-Me ether: [64474-51-7]. 2',7-Dihydroxy-3',4'-
 dimethoxyisoflavan. *Isomucronulatol*
 $C_{17}H_{18}O_5$ M 302.326
 Isol. from *Astragalus glycyphyllos*, *A. penduliflorus*,
Carmichaelia flagelliformis, *Colutea arborescens*,
Gliricidia sepium and *Glycyrrhiza glabra*. Cryst. (MeOH
 aq.). Mp 152-153°. $[\alpha]_D^{20}$ –19.4° (c, 0.24 in EtOH).
 3',4'-Di-Me ether, 7-O- β -D-glucopyranoside: [136087-29-1].
 $C_{23}H_{28}O_{10}$ M 464.468
 Constit. of *A. membranaceus* and *A. mongholicus*.
 Needles (MeOH). Mp 145-147°. $[\alpha]_D^{14}$ –14° (c, 0.1 in
 EtOH).
 3',4'-Di-Me ether, 2',7-di-O- β -D-glucopyranoside: [137217-
 84-6].
 $C_{29}H_{38}O_{15}$ M 626.610
 Constit. of *A. mongholicus*. Needles. Mp 150-151°. $[\alpha]_D$
 –24.3° (c, 0.5 in MeOH).
 3',4',7-Tri-Me ether: [137217-83-5]. 7-O-
Methylisomucronulatol
 $C_{18}H_{20}O_5$ M 316.353

Constit. of *A. mongholicus*. Needles. Mp 140-141°. [α]_D²⁰ – 11.0° (c, 0.4 in CHCl₃).

2',3',4'-Tri-Me ether: [136027-12-8]. 7-Hydroxy-2',3',4'-trimethoxyisoflavan

C₁₈H₂₀O₅ M 316.353

Constit. of *Medicago sativa*. Mp 168-170°. [α]_D²⁷ + 6.5° (c, 1.15 in CHCl₃). Unusual + ve opt. rotn.

(S)-form

2',3'-Di-Me ether: [56499-30-0]. 4',7-Dihydroxy-2',3'-dimethoxyisoflavan. **Sphaerosin**. *Sphaerosin*

C₁₇H₁₈O₅ M 302.326

Isol. form *Sphaerophysa salsula*. Mp 151°. [α]_D²⁰ + 10.7° (c, 0.7 in Me₂CO).

(±)-form

2',3'-Di-Me ether: [52305-06-3]. **Laxifloran**. (±)-*Sphaerosin*
Isol. from *Lonchocarpus laxiflorus* and *Lablab niger*.

Cryst. (MeOH). Mp 170-171°.

Tetra-Me ether: 2',3',4',7-Tetramethoxyisoflavan

C₁₉H₂₂O₅ M 330.380

Mp 65-67°.

[27973-50-8, 52250-35-8]

Pelter, A. *et al*, *J. Chem. Soc. C*, 1969, 887 (*Laxifloran*)

Farkas, L. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1974, 305

(*Laxifloran*)

Kattaev, N.S. *et al*, *Khim. Prir. Soedin.*, 1975, **11**, 147 (*Sphaerosin*)

Al-Ani, H.A.M. *et al*, *Phytochemistry*, 1985, **24**, 55 (*biosynth, bibl, Isomucronulatol*)

He, Z.Q. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 810.

Subarnas, A. *et al*, *Phytochemistry*, 1991, **30**, 2777.

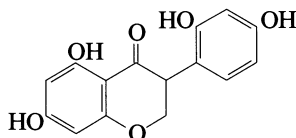
Spencer, G.F. *et al*, *Phytochemistry*, 1991, **30**, 4147 (*7-Hydroxy-2',3',4'-trimethoxyisoflavan*)

2',4',5,7-Tetrahydroxyisoflavanone**T-10055**

Updated Entry replacing T-00818

2,3-Dihydro-5,7-dihydroxy-3-(2,4-dihydroxyphenyl)-4H-1-benzopyran-4-one, 9CI. **Dalbergioidin**

[30368-42-4]



C₁₅H₁₂O₆ M 288.256

Isol. from *Dolichos biflorus*, *Lablab niger*, *Lespedeza cyrtobotrya*, *Macrotyloma axillare*, *Ougeinia dalbergioides*, *Phaseolus vulgaris* and *Stizolobium deeringianum* (all Leguminosae, Papilionoideae).

2'-Me ether: [76656-75-2]. 4',5,7-Trihydroxy-2'-methoxyisoflavanone. **Isoferreirin**

C₁₆H₁₄O₆ M 302.283

Constit. of *D. biflorus* and *S. deeringianum*.

4'-Me ether: [32898-79-6]. 2',5,7-Trihydroxy-4'-methoxyisoflavanone. **Ferreirin**

C₁₆H₁₄O₆ M 302.283

Isol. from heartwood of *Ferreirea spectabilis* also from *Haplormosia monophylla* and *Cajanus cajan*. Prisms (MeOH aq. or pet. ether). Mp 210-212°.

7-Me ether: 2',4',5-Trihydroxy-7-methoxyisoflavanone.

Dihydrocajanin

C₁₆H₁₄O₆ M 302.283

Constit. of the heartwood of *Swartzia polyphylla*. Cryst. Mp 214-216°. Racemic.

2',4'-Di-Me ether: [482-01-9]. 5,7-Dihydroxy-2',4'-dimethoxyisoflavanone. **Homoferreirin**

C₁₇H₁₆O₆ M 316.310

Isol. from *Argyrocytisus battandieri*, *Cicer arietinum*, *Ferreirea spectabilis* and *O. dalbergioides*. Rectangular plates (C₆H₆/pet. ether or MeOH aq.). Mp 168-169°.

2',4'-Di-Me ether, di-Ac: Long needles. Mp 132-133°.

2',5-Di-Me ether: [99965-02-3]. 4',7-Dihydroxy-2',5-dimethoxyisoflavanone

C₁₇H₁₆O₆ M 316.310

Isol. from *Phaseolus coccineus*.

2',7-Di-Me ether: [61020-70-0]. 4',5-Dihydroxy-2',7-dimethoxyisoflavanone. **Cajanol**

C₁₇H₁₆O₆ M 316.310

Isol. from fungus-infected stems of *Cajanus cajan* and *S. deeringianum*. Revised struct. Formerly considered to be 2',6-Dihydroxy-4',7-dimethoxyisoflavanone.

Tetra-Me ether: [28812-39-7]. 2',4',5,7-

Tetramethoxyisoflavanone

C₁₉H₂₀O₆ M 344.363

Cryst. (C₆H₆). Mp 163°.

King, F.E. *et al*, *J. Chem. Soc.*, 1952, 4580, 4752 (*Ferreirin, Homoferreirin*)

Farkas, L. *et al*, *J. Chem. Soc. C*, 1971, 1994 (*synth*)

Ingham, J.L. *et al*, *Z. Naturforsch., C*, 1976, **31**, 504; 1977, **32**, 1018; 1980, **35**, 923 (*isol, spectra, biosynth, derivs*)

Woodward, M.D., *Phytochemistry*, 1979, **18**, 363 (*isol*)

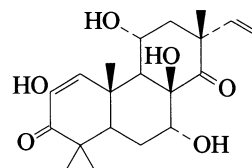
Ingham, J.L., *Z. Naturforsch., C*, 1979, **34**, 159 (*Cajanol*)

Ingham, J.L., *Prog. Chem. Org. Nat. Prod.*, 1983, **43**, 1 (*rev, occur*)

Adensanya, S.A. *et al*, *Phytochemistry*, 1985, **24**, 2699 (*4',7-Dihydroxy-2',5-dimethoxyisoflavanone*)

Osawa, K. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2970

(*Dihydrocajanin*)

2,7,8,11-Tetrahydroxy-1,15-isopimaradiene-3,14-dione**T-10056**

C₂₀H₂₈O₆ M 364.438

(7 α ,8 β ,11 α)-form

11-Benzoyl, 7-Ac: [149725-33-7]. **Orthosiphon E**

C₂₉H₃₄O₈ M 510.583

Constit. of *Orthosiphon stamineus*. Amorph. powder.

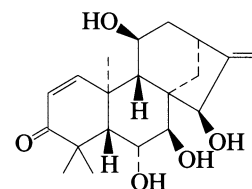
[α]_D²² – 99.7° (c, 0.47 in MeOH).

11-Benzoyl, 2,7-di-Ac: [149725-32-6]. **Orthosiphon D**

C₃₁H₃₆O₉ M 552.620

Constit. of *O. stamineus*. Amorph. powder. [α]_D²² – 96° (c, 0.21 in MeOH).

Takeda, Y. *et al*, *Phytochemistry*, 1993, **33**, 411 (*isol, pmr, cmr*)

6,7,11,15-Tetrahydroxy-1,16-kauradien-3-one**T-10057**

C₂₀H₂₈O₅ M 348.438

(ent-6 β ,7 α ,11 α ,15 α)-form

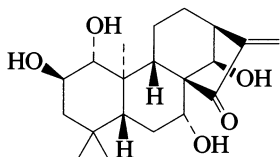
Tetra-Ac: **Forrestin F**

C₂₈H₃₆O₉ M 516.587

Constit. of *Rabdosia forrestii*. Needles. Mp 255-256°. $[\alpha]_D^{25} - 112.2^\circ$ (c, 0.55 in MeOH).

Xu, Y. *et al*, *Phytochemistry*, 1993, **34**, 461 (*isol*, *pmr*, *cmr*)

1,2,7,14-Tetrahydroxy-16-kauren-15-one T-10058



$C_{20}H_{30}O_5$ M 350.454

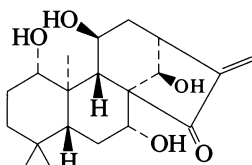
(*ent-1 β ,2 α ,7 β ,14 α*)-form [123941-76-4] **Umbrosianin**

Constit. of *Rabdosia umbrosa*. Needles (MeOH). Mp 180-182°. $[\alpha]_D^{25} - 81.5^\circ$ (c, 0.18 in $CHCl_3$).

Takeda, Y. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 1213 (*isol*, *pmr*, *cmr*)

1,7,11,14-Tetrahydroxy-16-kauren-15-one T-10059

Updated Entry replacing T-00848



$C_{20}H_{30}O_5$ M 350.454

(*ent-1 α ,7 β ,11 α ,14 α*)-form

1,11-Di-Ac: [59859-94-8]. *ent-1 α ,11 α -Diacetoxy-7 β ,14 α -dihydroxy-16-kauren-15-one*. **Rastronol A**

Constit. of the leaves of *Englerastrum scandens*. Cryst. (Me_2CO /diisopropyl ether). Mp 208.2-209.7°. $[\alpha]_D^{25} - 92.6^\circ$.

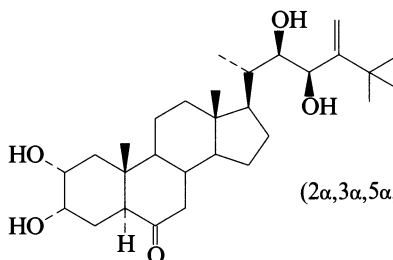
(*ent-1 β ,6 β ,11 α ,14 α*)-form [125456-64-6] **Rabdoinflexin B**

Constit. of *Rabdosia inflexa*. Needles (MeOH). Mp 266-268°. $[\alpha]_D^{24} - 74.9^\circ$ (c, 0.45 in MeOH).

Nomoto, K. *et al*, *Helv. Chim. Acta*, 1976, **59**, 772.

Wang, Z.-Q. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2683 (*Rabdoinflexin B*)

2,3,22,23-Tetrahydroxy-25-methylergost-24(28)en-6-one, 9Cl T-10060



(*2 α ,3 α ,5 α ,22R,23R*)-form

$C_{29}H_{48}O_5$ M 476.695

Plant growth regulator.

(*2 α ,3 α ,5 α ,22R,23R*)-form [111618-87-2] **25-**

Methylidolichosterone

Constit. of the immature seeds of *Phaseolus vulgaris*. Needles (MeOH). Mp 254° (246-247°). $[\alpha]_D^{22} + 4.3^\circ$ (c, 0.13 in MeOH).

(*2 β ,3 α ,5 α ,22R,23R*)-form [121398-03-6]

Constit. of the immature seeds of *P. vulgaris*.

(*2 β ,3 β ,5 α ,22R,23R*)-form [114958-54-2]

Constit. of the immature seeds of *P. vulgaris*. Prisms (MeOH). Mp 248°. $[\alpha]_D^{22} + 4.6^\circ$ (c, 0.18 in $CHCl_3$). Sinters at 243°.

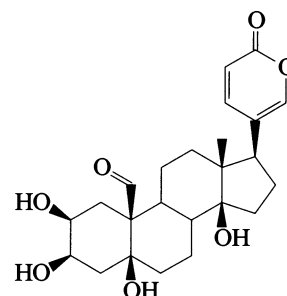
[121398-03-6]

Kim, S.K. *et al*, *Agric. Biol. Chem.*, 1987, **51**, 2303 (*isol*)

Japan. Pat., 88 255 297, (1988); *CA*, **111**, 36804 (*isol*)

Mori, K. *et al*, *Justus Liebigs Ann. Chem.*, 1988, 815 (*synth*)

2,3,5,14-Tetrahydroxy-19-oxo-20,22-bufadienolide T-10061



$C_{24}H_{32}O_7$ M 432.513

(*2 β ,3 β ,5 β*)-form

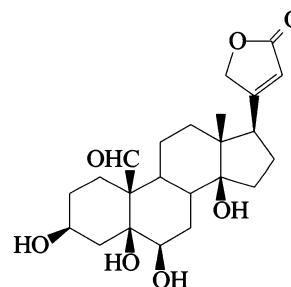
2-Ac, 3-O- $[\beta$ -D-glucopyranosyl-(1 \rightarrow 4)-2-O-acetyl-6-deoxy-3-O-methyl- α -L-glucopyranoside]: [122051-34-7]. **Physodin B**

$C_{41}H_{58}O_{18}$ M 838.898

Isol. from *Urginea physodes*.

Van Heerden, F.R. *et al*, *S. Afr. J. Chem.*, 1988, **41**, 145.

3,5,6,14-Tetrahydroxy-19-oxocard-20(22)-enolide T-10062



$C_{23}H_{32}O_7$ M 420.502

(*3 β ,5 β ,6 β ,14 β*)-form

3-O- α -L-Rhamnopyranoside: **Zenkoside**

$C_{29}H_{42}O_{11}$ M 566.644

Isol. from seeds of *Strophanthus tholloni* and *S. sarmentosus*. Tentative struct.

3-O-6-Deoxy-L-taloside: **Sarmentoside D**

$C_{29}H_{42}O_{11}$ M 566.644

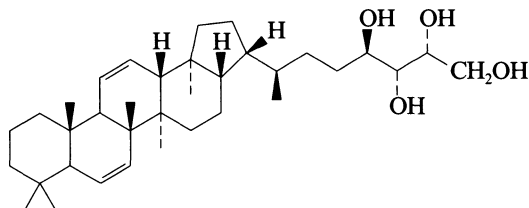
Isol. from seeds of *S. sarmentosus*, *S. tholloni* and *S. gratus*. Cryst. (MeOH/Et₂O). Mp 297-303°. $[\alpha]_D - 45.8^\circ$ (MeOH aq.).

Reichstein, T. *et al*, *Helv. Chim. Acta*, 1953, **28**, 1; 1957, **40**, 980; 1958, **41**, 736; 1960, **43**, 727; 1965, **48**, 202.

29-(2,3,4,5-Tetrahydroxypentyl)-6,11-hopadiene

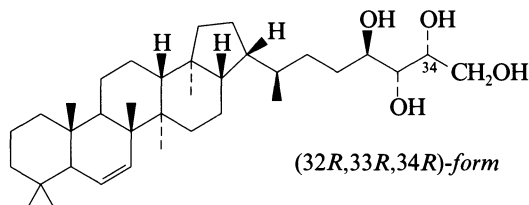
T-10063

6,11-Bacteriohopadiene-32,33,34,35-tetrol

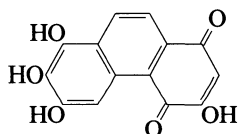
 $C_{35}H_{58}O_4$ M 542.841**(32R,33R,34S)-form** [144179-09-9]Constit. of *Acetobacter acetii* and *A. pasteurianus*.Peiseler, B. et al, *J. Chem. Res., Synop.*, 1992, 298; *J. Chem. Res., Miniprint*, 1992, 2353 (isol, pmr, cmr)**29-(2,3,4,5-Tetrahydroxypentyl)-6-hopene**

T-10064

6-Bacteriohopene-32,33,34,35-tetrol

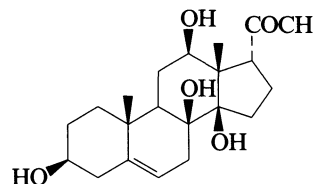
**(32R,33R,34R)-form** $C_{35}H_{60}O_4$ M 544.857**(32R,33R,34R)-form** [144179-06-6]Constit. of *Acetobacter acetii* and *A. pasteurianus*. Cryst. (CH_2Cl_2 /MeOH) (as tetra-Ac). Mp 152-153° (tetra-Ac). $[\alpha]_D^{22} + 22^\circ$ (c, 0.0068 in $CHCl_3$) (tetra-Ac).**(32R,33R,34S)-form** [115795-44-3]Constit. of *A. acetii* and *A. pasteurianus*. Cryst. (CH_2Cl_2 /MeOH) (as tetra-Ac). Mp 135-136° (tetra-Ac).Peiseler, B. et al, *J. Chem. Res., Synop.*, 1992, 298; *J. Chem. Res., Miniprint*, 1992, 2353 (isol, pmr, cmr)**3,6,7,8-Tetrahydroxy-1,4-phenanthraquinone**

T-10065

 $C_{14}H_8O_6$ M 272.214**Tetra-Me ether**: [144027-75-8]. 3,6,7,8-Tetramethoxy-1,4-phenanthraquinone. **Cymbinodin B** $C_{18}H_{16}O_6$ M 328.321Isol. from *Cymbidium aloifolium*. Dark red needles (C_6H_6). Mp 185-187°.Ghosh, B.B. et al, *Indian J. Chem., Sect. B*, 1992, 31, 557 (isol)**3,8,12,14-Tetrahydroxypregn-5-en-20-one**

T-10066

Updated Entry replacing T-00987

 $C_{21}H_{32}O_5$ M 364.481**(3β,12β,14β,17α)-form** [6869-50-7] **Lineolone**.*Desacylcynanchogenin*Constit. of *Adonis amurensis*. Cryst. (Me_2CO). Mp 238° (233-239°). $[\alpha]_D^{24} + 130^\circ$ (c, 0.9 in MeOH).12-(3,4-Dimethyl-2-pentenoyl): [6870-10-6]. **Cynanchogenin** $C_{28}H_{42}O_6$ M 474.636Aglycone from *Cynanchum caudatum*. Cryst. Mp 167°. $[\alpha]_D - 39.5^\circ$ (c, 1.24 in EtOH).

12-(3,4-Dimethyl-2-pentenoyl), 3-O-[β-D-oleandropyranosyl-

(1→4)-β-D-cymaropyranosyl-(1→4)-β-D-cymaropyranoside]: [72093-23-3]. **Cynanchoside C2** $C_{49}H_{78}O_{15}$ M 907.146Saponin from *C. caudatum*. Amorph. Mp 132.5-135.5°. $[\alpha]_D - 14.6^\circ$ (c, 1 in $CHCl_3$).

12-(3,4-Dimethyl-2-pentenoyl), 3-O-[β-D-glucopyranosyl-

(1→4)-2,6-dideoxy-3-O-methyl-β-D-ribohexopyranosyl-

(1→4)-2,6-dideoxy-3-O-methyl-β-D-ribohexopyranosyl-

(1→4)-2,6-deoxy-3-O-methyl-β-D-ribohexopyranosyl-

(1→4)-2,6-dideoxy-3-O-methyl-β-D-arabino-

hexopyranoside]: [56768-36-6]. **Sibiricoside D** $C_{62}H_{100}O_{23}$ M 1213.458Constit. of *C. sibiricum*. Amorph.

12-(3,4-Dimethyl-2-pentenoyl), 3-O-[β-D-glucopyranosyl-

(1→4)-β-D-glucopyranosyl-(1→4)-2,6-dideoxy-3-O-methyl-

β-D-ribohexopyranosyl-(1→4)-2,6-dideoxy-3-O-methyl-β-

D-ribohexopyranosyl-(1→4)-2,6-dideoxy-3-O-methyl-β-

D-arabinohexopyranoside]: [56768-37-7]. **Sibiricoside E** $C_{68}H_{110}O_{28}$ M 1375.600From *C. sibiricum*. Amorph.

12-O-(3,4-Dimethyl-2-pentenoyl), 3-O-[β-D-cymaropyranosyl-

(1→4)-β-D-cymaropyranosyl-(1→4)-β-D-

cymaropyranoside]: [84272-81-1]. **Cynanchoside C** $C_{49}H_{78}O_{15}$ M 907.146Saponin from *C. caudatum*. Amorph. solid + $\frac{1}{2}H_2O$. Mp123.5-129°. $[\alpha]_D + 30.4^\circ$ (c, 0.25 in $CHCl_3$).

12-Benzoyl, 3-O-[β-D-cymaropyranosyl-(1→4)-β-D-

oleandropyranosyl-(1→4)-β-D-oleandropyranosyl-(1→4)-β-

D-cymaropyranosyl-(1→4)-β-D-cymaropyranoside]:

[146959-75-3]. **Calotroposide A** $C_{63}H_{96}O_{21}$ M 1189.439Constit. of the roots of *Calotropis gigantea*. Amorph.solid. $[\alpha]_D^{22} + 2.3^\circ$ (c, 1 in $CHCl_3$).

12-Benzoyl, 3-O-[β-D-oleandropyranosyl-(1→4)-β-D-

oleandropyranosyl-(1→4)-β-D-oleandropyranosyl-(1→4)-β-

D-cymaropyranosyl-(1→4)-β-D-cymaropyranoside]:

Calotroposide D $C_{63}H_{96}O_{21}$ M 1189.439Constit. of the roots of *C. gigantea*. Amorph. solid. $[\alpha]_D^{23}$ $- 17.6^\circ$ (c, 1.1 in $CHCl_3$).

12-Benzoyl, 3-O-[β-D-oleandropyranosyl-(1→4)-β-D-

oleandropyranosyl-(1→4)-β-D-cymaropyranosyl-(1→4)-β-

D-cymaropyranoside]: [146959-76-4]. **Calotroposide F** $C_{56}H_{84}O_{18}$ M 1045.269Constit. of the roots of *C. gigantea*. Amorph. solid. $[\alpha]_D^{23}$ $- 15.6^\circ$ (c, 1.5 in $CHCl_3$).

12-Benzoyl, 3-O- β -D-oleandropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-cymaropyranoside]: [146959-78-6]. **Calotroposide G**

$C_{49}H_{72}O_{15}$ M 901.099

Constit. of the roots of *C. gigantea*. Amorph. solid. $[\alpha]_D^{25}$ –17.4° (c, 0.94 in $CHCl_3$).

(3 β ,12 β ,14 β)-form [7102-32-1] **Isolineolone**

Constit. of *A. amurensis*.

Shimizu, Y. *et al*, *Tetrahedron*, 1968, **24**, 4143 (*struct*)

Yamagishi, T. *et al*, *Tetrahedron*, 1973, 3527, 3531 (*cmr*)

Tursunova, R.N. *et al*, *Tezisy Dokl. Vses. Simp. Bioorg. Khim.*, 1975, 1975, 9; *CA*, 1976, **85**, 108933a (*isol*)

Shimizu, Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1978, **41**, 1 (*isol*)

Wada, K. *et al*, *Chem. Pharm. Bull.*, 1979, **27**, 2252; 1982, **30**, 3500 (*isol*, *Cynanchosides*)

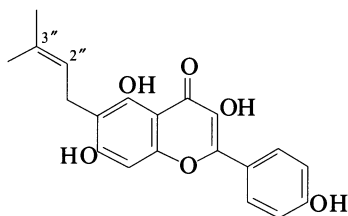
Kitagawa, I. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2007, 2647 (*Calotroposides*)

3,4',5,7-Tetrahydroxy-6-prenylflavone

T-10067

Updated Entry replacing T-01007

3,5,7-Trihydroxy-2-(4-hydroxyphenyl)-6-(3-methyl-2-butenyl)-4H-1-benzopyran-4-one, 9CI. 4',5,7-Trihydroxy-6-prenylflavonol. **Licoflavonol**
[60197-60-6]



$C_{20}H_{18}O_6$ M 354.359

Isol. from the roots of *Glycyrrhiza uralensis*. Yellow needles ($CHCl_3$ /MeOH). Mp 185-187° dec.

3-Me ether: [109605-79-0]. 4',5,7-Trihydroxy-3-methoxy-6-prenylflavone. **Topazolin**

$C_{21}H_{20}O_6$ M 368.385

Constit. of *Lupinus luteus* cv. Topaz. Pale-yellow rods (Me_2CO /EtOAc). Mp 227-228.5°.

2'',3''-Dihydro, 3''-hydroxy: [143724-79-2]. 3,4',5,7-Tetrahydroxy-6-(3-hydroxy-3-methylbutyl)flavone

$C_{20}H_{20}O_7$ M 372.374

Isol. from *Bursera leptophloes*. Yellow needles. Mp 223-224°. Struct. revised in 1992.

2'',3''-Dihydro, 3''-hydroxy, 3-Me ether: [109605-84-7].

Topazolin hydrate

$C_{21}H_{22}O_7$ M 386.401

Constit. of *L. luteus* cv. Topaz. Pale-yellow rods (EtOAc/hexane). Mp 239-241°.

Saitoh, T. *et al*, *Chem. Pharm. Bull.*, 1976, **24**, 1242 (*isol*, *struct*)

Tahara, S. *et al*, *Agric. Biol. Chem.*, 1987, **51**, 1039.

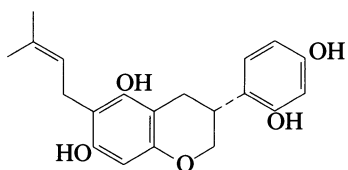
Fukai, T. *et al*, *Heterocycles*, 1992, **34**, 1213.

2',4',5,7-Tetrahydroxy-6-prenylisoflavan

T-10068

Updated Entry replacing T-01012

3,4-Dihydro-5,7-dihydroxy-3-(2,4-dihydroxyphenyl)-6-(3-methyl-2-butenyl)-2H-1-benzopyran, 9CI



$C_{20}H_{22}O_5$ M 342.391

(R)-form

5-Me ether: [142474-53-1]. 2',4',7-Trihydroxy-5-methoxy-6-prenylisoflavan. **Glyasperin C**

$C_{21}H_{24}O_5$ M 356.418

Isol. from *Glycyrrhiza aspera*. Needles (Me_2CO). Mp 79-80°. $[\alpha]_D^{20}$ –15.6° (c, 0.42 in MeOH).

5,7-Di-Me ether: [142561-10-2]. 2',4'-Dihydroxy-5,7-dimethoxy-6-prenylisoflavan. **Glyasperin D**

$C_{22}H_{26}O_5$ M 370.444

Isol. from *G. aspera*. Prisms (Me_2CO). Mp 111-114°.

$[\alpha]_D^{20}$ –13.4° (c, 0.21 in MeOH).

2',5-Di-Me ether: [145382-64-5]. 4',7-Dihydroxy-2',5-dimethoxy-6-prenylisoflavan. **Glyasperin I**

$C_{22}H_{26}O_5$ M 370.444

Isol. from the roots of *G. aspera*. Amorph. powder. $[\alpha]_D^{20}$ –5.3° (c, 0.095 in $CHCl_3$).

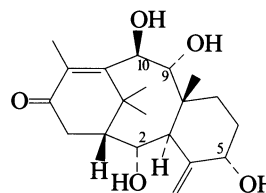
Zeng, L. *et al*, *Heterocycles*, 1992, **34**, 575, 1813 (*isol*)

2,5,9,10-Tetrahydroxy-4(20),11-taxadien-13-one

T-10070

Updated Entry replacing T-01059

[5308-90-7]



$C_{20}H_{30}O_5$ M 350.454

(2 α ,5 α ,9 α ,10 β)-form

Taxicin II

2,9,10-Tri-Ac: [18530-09-1]. **Taxinine A**

$C_{26}H_{36}O_8$ M 476.566

Constit. of *Taxus cuspidata*. Cryst. Mp 254-255°. $[\alpha]_D$ +106° ($CHCl_3$).

Tetra-Ac: [18530-10-4]. **Taxinine H**

$C_{28}H_{38}O_9$ M 518.603

Constit. of *T. cuspidata*. Cryst. Mp 166-167°. $[\alpha]_D$ +96° ($CHCl_3$).

5-Cinnamoyl, 2-Ac:

$C_{31}H_{38}O_7$ M 522.637

Cryst. (MeOH aq.). Mp 224-225°. $[\alpha]_D^{21}$ +121° ($CHCl_3$).

5-Cinnamoyl, 9-Ac: [146257-46-7].

$C_{31}H_{38}O_7$ M 522.637

Constit. of *T. baccata*.

5-Cinnamoyl, 10-Ac: [146257-45-6].

$C_{31}H_{38}O_7$ M 522.637

Constit. of *T. baccata*. Powder. Mp 204-205°. $[\alpha]_D^{25}$ +128° (c, 0.4 in $CHCl_3$).

5-Cinnamoyl, 2,9,10-tri-Ac: [3835-52-7]. **Taxinine**

$C_{35}H_{42}O_9$ M 606.711

Constit. of *T. cuspidata*. Cryst. (EtOH). Mp 265-267°. $[\alpha]_D^{18}$ +137°.

5-(3-Dimethylamino-3-phenylpropanoyl), 2,9,10-tri-Ac:

[110042-00-7]. **Taxine II. 1-Deoxydiacetyltaxine B**

$C_{37}H_{49}NO_9$ M 651.795

Constit. of *T. baccata*. Gum. $[\alpha]_D^{25}$ +27° (c, 2.8 in CH_2Cl_2).

Woods, M.C. *et al*, *Tetrahedron*, 1966, **22**, 243 (*pmr*)

Leete, E. *et al*, *Tetrahedron Lett.*, 1966, 3925 (*biosynth*)

Eyre, D.H. *et al*, *J. Chem. Soc. C*, 1967, 452 (*isol*)

Chiang, H.C. *et al*, *J. Chem. Soc., Chem. Commun.*, 1967, 1201 (*isol*)

Koyama, H. *et al*, *J. Chem. Soc. B*, 1971, 1342 (*struct*)

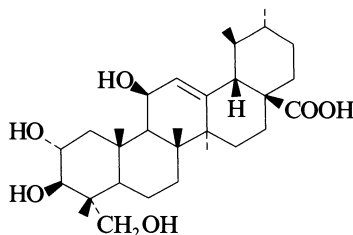
Appendino, G. *et al*, *Phytochemistry*, 1992, **31**, 4253 (*derivs*, *pmr*, *cmr*)

Appendino, G. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 514 (*Taxine II*)

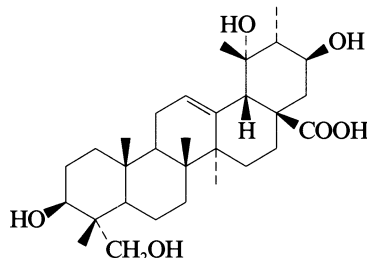
2,3,11,23-Tetrahydroxy-12-ursen-28-oic acid

T-10071

Updated Entry replacing T-02533

C₃₀H₄₈O₆ M 504.706**(2 α ,3 β ,11 β)-form***11-Me ether*: 2,3,23-Trihydroxy-11-methoxy-12-ursen-28-oic acidC₃₁H₅₀O₆ M 518.732Constit. of *Shorea robusta*.*11-Ketone*: 2,3,23-Trihydroxy-11-oxo-12-ursen-28-oic acid.**11-Oxoasiatic acid**C₃₀H₄₆O₆ M 502.690Minor constit. of resin of *Dryobalanops aromatica*.*11-Ketone, Me ester*: [20089-74-1].Cryst. (H₂O). Mp 184-186°.*11-Ketone, Me ester, tri-Ac*: Cryst. Mp 268-269°.Cheung, H.T. *et al*, *Tetrahedron Lett.*, 1968, 4363 (*isol, struct*)Cheung, H.T. *et al*, *Tetrahedron*, 1969, **25**, 119 (*pmr*)Hota, R.K. *et al*, *Phytochemistry*, 1993, **32**, 466 (*isol, pmr, cmr*)**3,19,21,23-Tetrahydroxy-12-ursen-28-oic acid**

T-10072

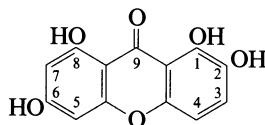
C₃₀H₄₈O₆ M 504.706**(3 β ,19 α ,21 β)-form****Ilexolic acid A**Constit. of *Ilex rotunda*. Needles (MeOH). Mp 259-260°.[α]_D +48.5° (c, 0.6 in MeOH).Amimoto, K. *et al*, *Phytochemistry*, 1993, **33**, 1475 (*isol, pmr, cmr*)**1,2,6,8-Tetrahydroxyxanthone**

T-10073

Updated Entry replacing T-01090

*1,2,6,8-Tetrahydroxy-9H-xanthen-9-one, 9CI.***Norswertianine**

[22172-15-2]

C₁₃H₈O₆ M 260.203Isol. from *Gentiana bavarica* and *Swertia japonica*. Cryst. (MeOH). Mp 335° (332-333°).*8-O- β -D-Glucopyranoside*: [42320-87-6].C₁₉H₁₈O₁₁ M 422.345Constit. of *G.* and *S.* spp. Cryst. (MeOH). Mp 177-179°.*8-Primeveroside*: [53171-13-4]. **Norswertiaprimeveroside**C₂₄H₂₆O₁₅ M 554.460From *G. bavarica*. Cryst. (MeOH).*6,8-Di-O- β -D-glucopyranoside*: [62421-19-6].C₂₅H₂₈O₁₆ M 584.487Constit. of *S. perennis*. Yellow needles (MeOH). Mp 210-212°.*8-O- β -D-Laminaribioside*:C₂₅H₂₈O₁₆ M 584.487Isol. from *Asplenium adiantum-nigrum*.*2-Me ether*: [5042-15-9]. **1,6,8-Trihydroxy-2-methoxyxanthone**Constit. of *Canscora decussata*. Yellow needles (EtOH).

Mp 291-293° (> 300°).

2-Me ether, 8-O- β -D-glucopyranoside: [118096-33-6].**Comastomaside**C₂₀H₂₀O₁₁ M 436.371Constit. of *Comastoma pulmonarium* and *Swertia verticillifolia*.*6-Me ether*: [20882-75-1]. **1,2,8-Trihydroxy-6-methoxyxanthone. Swertianine. Gentiakochianine.****Gentiakochianine**C₁₄H₁₀O₆ M 274.229Isol. from *G. bavarica*, *G. kochiana* and *S. japonica*. Mp 226-227° (221°).*6-Me ether, 1-O-primeveroside*: [26097-43-8].**Gentiakochianoside**C₂₅H₂₈O₁₅ M 568.487Constit. of *G. ciliata* and *G. kochiana*. Yellow needles + $\frac{1}{2}$ H₂O (H₂O). Mp 206-207°.*6-Me ether, 8-primeveroside*: [53171-11-2].**Isogentiakochianoside**C₂₅H₂₈O₁₅ M 568.487

Cryst. (MeOH). Mp 221°.

6-Me ether, 2-rutinoside: [54244-36-9].**Desacetylgentiabavarutinoside**C₂₆H₃₀O₁₅ M 582.514From *G. bavarica*. Cryst. (MeOH). Mp 228°.*6-Me ether, 2-(O-acetyl)rutinoside*: [61252-90-2].**Gentiabavarutinoside**C₂₈H₃₂O₁₆ M 624.551From *G. bavarica*. Cryst. (MeOH). Mp 219-221°.*1,2-Di-Me ether*: [25991-81-5]. **6,8-Dihydroxy-1,2-dimethoxyxanthone. Swertinin**C₁₅H₁₂O₆ M 288.256Constit. of *S. decussata*. Yellow needles (EtOH/CHCl₃).

Mp 217°. Formerly assigned the 1,2-dihydroxy-6,8-dimethoxy struct.

1,2-Di-Me ether, di-Ac: Mp 157°.*1,6-Di-Me ether*: [15402-27-4]. **2,8-Dihydroxy-1,6-dimethoxyxanthone. Gentiacauleine****Gentiacauleine**From *G.* spp., incl. *G. bavarica* and *G. acaulis*. Cryst. (MeOH). Mp 194°.*1,6-Di-Me ether, 2-O-primeveroside*: [20398-10-1].**Gentiacauloside. Gentiacaulin**C₂₆H₃₀O₁₅ M 582.514Constit. of *G. acaulis* and *G. kochiana*. Yellow needles (EtOH). Mp 223°.*1,6-Di-Me ether, 8-primeveroside*: [53171-10-1].**Gentiabavaroside**C₂₆H₃₀O₁₅ M 582.514From *G. bavarica*. Cryst. (MeOH). Mp 163°.*1,8-Di-Me ether*: [107110-12-3]. **2,6-Dihydroxy-1,8-dimethoxyxanthone**C₁₅H₁₂O₆ M 288.256Constit. of *Haploclathra paniculata*. Yellow cryst. (EtOH). Mp 282-284°.

2,6-Di-Me ether: [22172-17-4]. 1,8-Dihydroxy-2,6-dimethoxyxanthone. **Swertiaperenine**. Swertiaperrenin
 $C_{15}H_{12}O_6$ M 288.256

Constit. of *Centaurium cachanlahuen* and *Canscora decussata*. Mp 191°.

2,6-Di-Me ether, 8-O-primeveroside: [60354-05-4].

$C_{26}H_{30}O_{15}$ M 582.514

Constit. of *Swertia perennis*. Cryst. (MeOH). Mp 167-168° dec.

2,8-Di-Me ether, 1-O-primeveroside: [67783-22-6].

$C_{26}H_{30}O_{15}$ M 582.514

Constit. of *G. ciliata*. Mp 215-218°.

1,2,6-Tri-Me ether: [20882-69-3]. 8-Hydroxy-1,2,6-trimethoxyxanthone. **Decussatine**

$C_{16}H_{14}O_6$ M 302.283

Isol. from *Swertia decussata*, *C. cachanlahuen* and *G. bavarica*. Yellow needles (EtOH). Mp 159°. Revised struct.

1,2,6-Tri-Me ether, 8-primeveroside: [79548-63-3].

$C_{27}H_{32}O_{15}$ M 596.541

Isol. from *G. spp.* Cryst. (MeOH). Mp 192-193° dec.

1,6,8-Tri-Me ether: [114371-78-7]. 2-Hydroxy-1,6,8-trimethoxyxanthone. **Anthaxanthone**

$C_{16}H_{14}O_6$ M 302.283

Constit. of *Haploclathra leiantha*. Yellow cryst. (EtOH). Mp 202-204°.

Tetra-Me ether: 1,2,6,8-Tetramethoxyxanthone

$C_{17}H_{16}O_6$ M 316.310

Cryst. (MeOH). Mp 165-167°.

Komatsu, M. *et al*, *Chem. Pharm. Bull.*, 1969, **17**, 155.

Rivaille, P. *et al*, *Phytochemistry*, 1969, **8**, 1533 (*Gentiacauloside*, *Gentiakochianoside*)

Stout, G.H. *et al*, *Phytochemistry*, 1969, **8**, 2417.

Chaudhuri, R.K. *et al*, *Phytochemistry*, 1971, **10**, 2425 (*isol*)

Hostettman, K. *et al*, *Helv. Chim. Acta*, 1974, **57**, 294; 1976, **59**, 2592; 1977, **60**, 262; 1978, **61**, 1549 (*isol*, *pmr*, *uv*, *struct*, *bibl*)

Guyot, M.P. *et al*, *Phytochemistry*, 1979, **8**, 1533 (*Swertinin*)

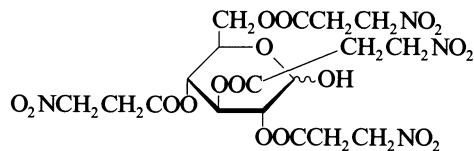
Imperato, F. *et al*, *Phytochemistry*, 1980, **19**, 2030 (*laminaribioside*)

Versluys, C. *et al*, *Experientia*, 1982, **38**, 771 (*isol*)

Nagem, T.J. *et al*, *Phytochemistry*, 1986, **25**, 2681; 1988, **27**, 646 (*isol*, *Anthaxanthone*)

Fan, S. *et al*, *Zhiwu Xuebao*, 1988, **30**, 303; *CA*, **110**, 21067 (*Comastomaside*)

2,3,4,6-Tetrakis(3-nitropropanoyl)glucose T-10074



$C_{18}H_{24}N_4O_{18}$ M 584.404

Isol. from *Indigofera suffruticosa*. Cryst. (MeOH). Mp 139-141°. See also Endecaphyllins, E-00238.

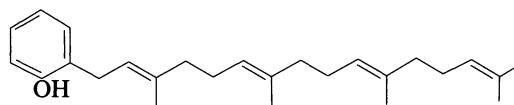
Garcez, W.S. *et al*, *Phytochemistry*, 1989, **28**, 1251.

2-(3,7,11,15-Tetramethyl-2,6,10,14-hexadecatetraenyl)benzene T-10075

Updated Entry replacing T-01167

2-Tetraprenylphenol

[14158-85-1]



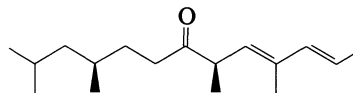
$C_{26}H_{38}O$ M 366.586

Metab. of *Rhodospirillum rubrum*. Precursor of Ubiquinones. Oil.

Olsen, R.K. *et al*, *J. Am. Chem. Soc.*, 1966, **88**, 5919.

4,6,10,12-Tetramethyl-2,4-tridecadien-7-one T-10076

Matsuone



$C_{17}H_{30}O$ M 250.423

(2*E*,4*E*,6*R*^{*},10*R*^{*})-form

Constit. of the red pine scale *Matsucoccus resinosae* and other *M. spp.* Sex pheromone. Relative config. known.

[121981-51-9, 133697-99-1, 133698-00-7, 133698-01-8, 133698-02-9]

Lanier, G.N. *et al*, *J. Chem. Ecol.*, 1989, **15**, 1645; 1991, **17**, 89 (*isol*, *props*)

Cywin, C.L. *et al*, *J. Org. Chem.*, 1991, **56**, 2953 (*synth*, *abs config*)

12,21-Tetratriacontanediol T-10077

Randiol

[142942-92-5]

$H_3C(CH_2)_{12}CH(OH)(CH_2)_8CH(OH)(CH_2)_{10}CH_3$

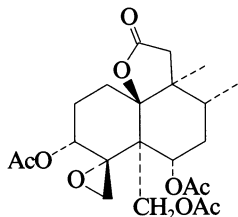
$C_{34}H_{70}O_2$ M 510.926

Isol. from the bark of *Randia longispina*.

Mukherjee, K.S. *et al*, *Fitoterapia*, 1991, **62**, 506 (*isol*)

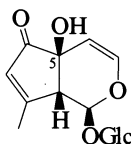
Teucrolin D

[149992-88-1]

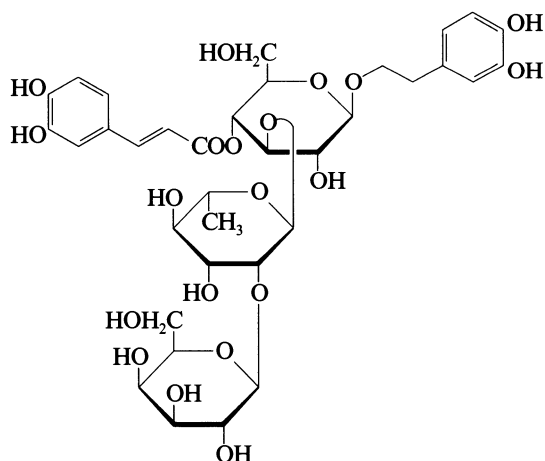
 $C_{22}H_{30}O_9$ M 438.474Constit. of *Teucrium oliverianum*. Powder. Mp 77-79°. $[\alpha]_D^{20}$ -53° (c, 0.084 in C_6H_6).Al-Yahya, M.A. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 830 (isol, pmr, cmr)**T-10078**Constit. of *Teucrium polium*. Yellow amorph. solid. $[\alpha]_D^{22}$ -44.0° (c, 1.18 in EtOH).Oganesyanyan, G.B. et al, *Khim. Prir. Soedin.*, 1991, **27**, 630; *Chem. Nat. Compd. (Engl. Transl.)*, 556 (isol, uv, ir, pmr, cmr)**Teuhircoside**

Updated Entry replacing T-01201

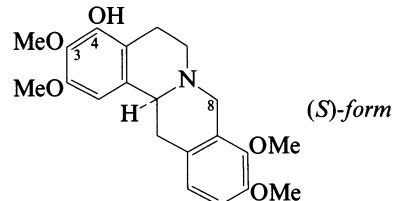
[80135-40-6]

 $C_{15}H_{20}O_9$ M 344.318Constit. of *Teucrium arduini* and *T. hyrcanicum*. Cryst. Mp 213°. $[\alpha]_D^{21}$ -400.7° (c, 0.08 in MeOH).5-O-Rhamnoside: [78280-92-9]. **Teucardoside** $C_{21}H_{30}O_{13}$ M 490.460Constit. of *T. arduini* and *T. hyrcanicum*. Amorph. $[\alpha]_D^{21}$ -183.5° (c, 0.1 in MeOH).5-Deoxy: **5-Deoxyteuhircoside** $C_{15}H_{20}O_8$ M 328.318Constit. of *Linaria japonica*. Unstable amorph. powder. $[\alpha]_D$ -161° (c, 0.89 in MeOH).Ruhdorfer, J. et al, *Z. Naturforsch., C*, 1981, **36**, 697.Otsuka, H., *Phytochemistry*, 1993, **33**, 617 (5-Deoxyteuhircoside)**T-10079****Teuplioside**

[143617-02-1]

 $C_{35}H_{46}O_{20}$ M 786.736**T-10080****Thaicanine**

Updated Entry replacing T-01225

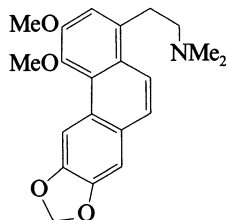
 $C_{21}H_{25}NO_5$ M 371.432**(S)-form** [102828-06-8] $C_{21}H_{25}NO_5$ M 371.432Alkaloid from the leaves of *Parabaena sagittata* (Menispermaceae). Cryst. (MeOH/ $CHCl_3$). Mp 144-146°. $[\alpha]_D^{20}$ -243° ($CHCl_3$).**N-Me: N-Methylthaicanine** $C_{22}H_{28}NO_5^{\oplus}$ M 386.467 (ion)Alkaloid from leaves of *Anisocycla cymosa* (Menispermaceae). Amorph. powder. $[\alpha]_D^{20}$ -102.1° (c, 0.014 in MeOH).**Me ether: [102828-07-9]. O-Methylthaicanine** $C_{22}H_{27}NO_5$ M 385.459Isol. from the leaves of *P. sagittata* (Menispermaceae). Cryst. (MeOH/ $CHCl_3$). Mp 119-120°. $[\alpha]_D^{20}$ -259° ($CHCl_3$).**N,O-Di-Me: N,O-Dimethylthaicanine** $C_{23}H_{30}NO_5^{\oplus}$ M 400.494Alkaloid from leaves of *A. cymosa* (Menispermaceae). Needles ($CHCl_3$). Mp 218°. $[\alpha]_D^{20}$ -102.8° (c, 0.020 in $CHCl_3$).**8-Oxo: 8-Oxothaicanine** $C_{21}H_{23}NO_6$ M 385.416Alkaloid from stems of *Cosciniium fenestratum* (Menispermaceae). Gum. $[\alpha]_D$ -667° (c, 0.003 in $CHCl_3$). Tentative struct.; the 3-OH, 4-OMe struct. cannot be excluded.**(±)-form** [126640-91-3]**Me ether: Synthetic.** Yellow solid. Mp 116-117°.**O¹⁰-De-Me: [132923-34-3]. Thaipetaline** $C_{20}H_{23}NO_5$ M 357.405Alkaloid from *Polyalthia stenopetala* (Annonaceae). Amorph. $[\alpha]_D$ -130° (c, 1 in MeOH).Ruangrunsi, N. et al, *J. Nat. Prod. (Lloydia)*, 1986, **49**, 253 (isol, uv, ir, pmr, cmr, ms, struct)Mali, R.S. et al, *Indian J. Chem., Sect. B*, 1989, **28**, 107 (synth, uv, ir, pmr, cmr, ms, O-Methylthaicanine)Mali, R.S. et al, *Synth. Commun.*, 1989, **19**, 2613 (synth)Janssen, R.H.A.M. et al, *Phytochemistry*, 1990, **29**, 3331 (cmr)Lavault, M. et al, *Phytochemistry*, 1990, **29**, 3845 (Thaipetaline)Kanyinda, B. et al, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 607 (N-Methylthaicanine, N,O-Dimethylthaicanine)Pinho, P.M.M. et al, *Phytochemistry*, 1992, **31**, 1403 (8-Oxothaicanine)

Thalictuberine

T-10082

Updated Entry replacing T-01247

1,2-Dimethoxy-N,N-dimethylphenanthro[2,3-d][1,3]dioxole-4-ethanamine, 9CI. 1-(2-Dimethylaminoethyl)-3,4-dimethoxy-6,7-methylenedioxyphenanthrene. *Thalictuberine* [477-35-0]

C₂₁H₂₃NO₄ M 353.417

Alkaloid from the roots of *Thalictrum thunbergii* and *T. rugosum*, and from the roots and rhizomes of *T. strictum* (Ranunculaceae). Shows a wide range of *in vitro* antimicrobial activity. Needles (Et₂O). Mp 126-127°.

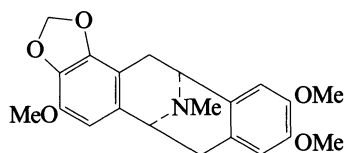
B, HCl: Needles + 0.5H₂O. Mp 209-210°.B, (COOH)₂: Needles + 0.5H₂O. Mp 206-207°.N-Oxide: *Thalictuberine N-oxide*C₂₁H₂₃NO₅ M 369.416

Alkaloid from aerial parts of *Platycypnos spicata* (Fumariaceae). Prisms (EtOH). Mp 112-114°.

Fujita, E. *et al*, *Yakugaku Zasshi*, 1959, **79**, 1252; *CA*, **54**, 4643f (*isol*, *uv*, *ir*, *struct*)Maekh, S.Kh. *et al*, *Khim. Prir. Soedin.*, 1976, 560 (*isol*)Wu, W.-N. *et al*, *J. Nat. Prod. (Lloydia)*, 1980, **43**, 143 (*isol*, *pmr*)Blanco, O.M. *et al*, *Phytochemistry*, 1993, **32**, 1055 (*oxide*)**Thalimonine**

T-10083

[142735-70-4]

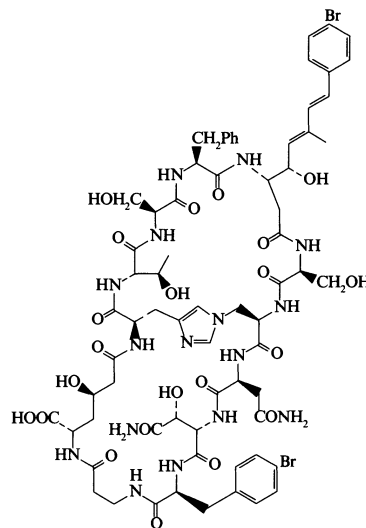
C₂₁H₂₃NO₅ M 369.416

Alkaloid from aerial parts of *Thalictrum simplex* (Ranunculaceae). [α]_D²² – 118° (c, 0.20 in MeOH).

Velcheva, M.P. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 679 (*isol*, *uv*, *ir*, *cd*, *pmr*, *cmr*, *ms*, *struct*)**Theonellamide F**

T-10084

[119455-31-1]

C₆₉H₈₆Br₂N₁₆O₂₂ M 1651.340

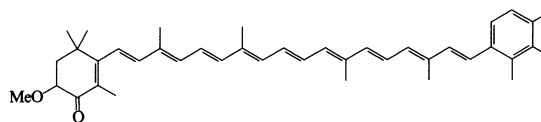
Isol. from a marine sponge *Theonella* sp. Antifungal agent. [α]_D²³ – 5.5° (c, 0.12 in 1-propanol aq.). Other Theonellamides have not been isol. or characterized as yet (1992).

Matsunaga, S. *et al*, *J. Am. Chem. Soc.*, 1989, **111**, 2582 (*isol*, *struct*, *pmr*, *cmr*)**Thorexanthin**

T-10085

3-Methoxy-β,γ-caroten-4-one

[145038-22-8]

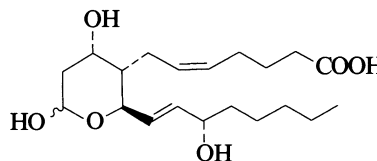
C₄₁H₅₂O₂ M 576.861

Constit. of *Thorecta horridus*. [α]_D²⁵ – 15° (c, 0.03 in CHCl₃).

Fattorusso, E. *et al*, *Z. Naturforsch., B*, 1992, **47**, 1477 (*isol*, *pmr*, *cmr*)**Thromboxane B₂**

T-10086

7-[Tetrahydro-4,6-dihydroxy-2-(3-hydroxy-1-octenyl)-2H-pyran-3-yl]-5-heptenoic acid, 9CI. 9α,11,15S-Trihydroxythromboxa-5Z,13E-dien-1-oic acid. *TXB₂* [54397-85-2]

C₂₀H₃₄O₆ M 370.485

(+) -form

One of the major prods. of the biosynth. system which converts arachidonic acid to prostaglandins. Plates (EtOAc/Et₂O/pet. ether). Mp 95-96°. [α]_D²⁵ + 57.4° (c, 0.26 in EtOAc).

11-Dehydro: [67910-12-7]. *9,15-Dihydroxy-11-oxothromboxa-5,13-dien-1-oic acid*. *11-Dehydrothromboxane B₂*. *11-Dehydro-TXB₂ Thromboxane B₂ metab.*

11-Dehydro, Me ester: [67719-11-3].
C₂₁H₃₄O₆ M 382.496

13,14-Dihydro, 15-Oxo: [62107-18-0]. *9,11-Dihydroxy-15-oxothromboxa-5-en-1-oic acid*. *15-Dehydro-13,14-dihydrothromboxane B₂*
C₂₀H₃₄O₆ M 370.485
Thromboxane B₂ metab.

(±)-*form*

Plates (EtOAc/Et₂O/pet. ether). Mp 92-94° (89-90°).

Hamberg, M. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1974, **71**, 3400 (struct, ms)

Nelson, N.A. *et al*, *Tetrahedron Lett.*, 1976, 3275 (synth)

Kelly, R.C. *et al*, *Tetrahedron Lett.*, 1976, 3279 (synth)

Schneider, W.P. *et al*, *Tetrahedron Lett.*, 1976, 3283 (synth, ms)

Hanessian, S. *et al*, *Can. J. Chem.*, 1977, **55**, 562 (synth)

Corey, E.J. *et al*, *Tetrahedron Lett.*, 1977, 785 (synth)

Nelson, N.A. *et al*, *Prostaglandins*, 1978, **16**, 85 (synth, ir, pmr, ms)

Hernandez, O., *Tetrahedron Lett.*, 1978, 219 (synth)

Langs, D.A. *et al*, *Nature (London)*, 1979, **281**, 237 (cryst struct, conformn)

Roberts, L.J. *et al*, *J. Biol. Chem.*, 1981, **256**, 8384 (biosynth)

Robinson, C. *et al*, *Biochim. Biophys. Acta*, 1982, **712**, 315; 1983, **754**, 190 (biosynth)

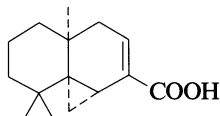
Watanabe, K. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 140 (detm)

3-Thujopsen-15-oic acid

T-10087

Updated Entry replacing T-01438

Hinokiic acid. *Widdringtonic acid I*. *Widdrenic acid*
[546-53-2]



C₁₅H₂₂O₂ M 234.338

Constit. of *Widdringtonia* spp., *Chamaecyparis thyoides* and *Juniperus* spp. Cryst. Mp 169-170° (166°). [α]_D²⁰ -90.4°.

15-Aldehyde: [470-41-7]. *3-Thujopsen-15-al*. *Thujopsenal*

C₁₅H₂₂O M 218.338

Made by oxidn. of 3-Thujopsene, T-01437. Perfumery ingredient.

Erdtman, H. *et al*, *Acta Chem. Scand.*, 1959, **13**, 1124 (isol)

Forsén, S. *et al*, *Acta Chem. Scand.*, 1961, **15**, 1676 (pmr)

Takeshita, H. *et al*, *Tetrahedron Lett.*, 1969, 3095 (synth, pmr)

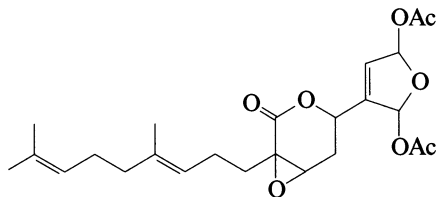
Ito, M. *et al*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 1914; 1974, **47**, 3173;

1979, **52**, 261 (synth)

Talvitie, A. *et al*, *Finn. Chem. Lett.*, 1976, 149 (struct)

Thuridillin A

T-10088



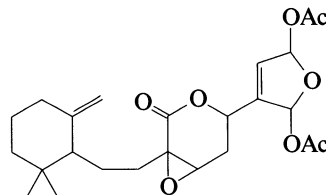
C₂₄H₃₂O₈ M 448.512

Constit. of *Thuridilla hopei*. [α]_D²⁵ -12.5° (c, 0.4 in CHCl₃).

Govagnin, M. *et al*, *Gazz. Chim. Ital.*, 1993, **123**, 205 (isol, pmr, cmr)

Thuridillin B

T-10089



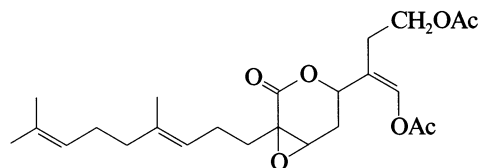
C₂₄H₃₂O₈ M 448.512

Constit. of *Thuridilla hopei*. [α]_D²⁵ -9.4° (c, 0.48 in CHCl₃).

Govagnin, M. *et al*, *Gazz. Chim. Ital.*, 1993, **123**, 205 (isol, pmr, cmr)

Thuridillin C

T-10090



C₂₄H₃₄O₇ M 434.528

Constit. of *Thuridilla hopei*. [α]_D²⁵ -86.0° (c, 0.05 in CHCl₃).

Govagnin, M. *et al*, *Gazz. Chim. Ital.*, 1993, **123**, 205 (isol, pmr, cmr)

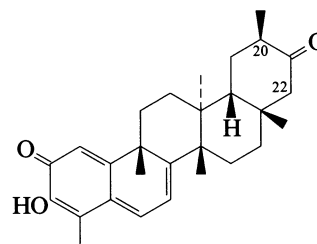
Tingenin A

T-10091

Updated Entry replacing T-01482

3-Hydroxy-24,29-dinor-1(10),3,5,7-friedelatetraene-2,21-dione. *Maitenin*. *Tingenone*

[50802-21-6]



C₂₈H₃₆O₃ M 420.591

Isol. from *Maytenus* spp. and *Euonymus tingsens*. Also found in *Trypterygium wilfordii*. Shows antitumour props. Cryst. Mp 203-204° (228-229°).

▷ LS6872000.

Ac: Cryst. Mp 175°.

22β-Hydroxy: [50656-68-3]. **Tingenin B**. *3,22-Dihydroxy-24,29-dinor-1(10),3,5,7-friedelatetraene-2,21-dione*. *22β-Hydroxytingenone*

C₂₈H₃₆O₄ M 436.590

Constit. of *M.* spp. and *E. tingsens*. Cryst. Mp 210-211°.

20β-Hydroxy: [52475-25-9]. *3,20-Dihydroxy-24,29-dinor-1(10),3,5,7-friedelatetraene-2,21-dione*. *20-Hydroxytingenone*. *20-Hydroxymaitenin*

C₂₈H₃₆O₄ M 436.590

Isol. from *E. tingsens*. Red cryst. (Me₂CO). Mp 207-208.5°. [α]_D²⁰ +102° (c, 0.1 in CHCl₃). Struct. revised in 1993. Formerly thought to be 20α.

15α,22β-Dihydroxy: **15α,22β-Dihydroxytingenone**

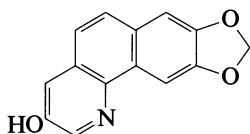
C₂₈H₃₆O₅ M 452.589

Constit. of root bark of *Cassine balae*. Orange-red cryst. (CHCl₃/MeOH). Mp 242-243°. [α]_D -182° (c, 1.40 in CHCl₃).

- Monache, F.D. *et al*, *Gazz. Chim. Ital.*, 1972, **102**, 317; 1973, **103**, 627 (*isol, struct*)
 Nakanishi, K. *et al*, *J. Am. Chem. Soc.*, 1973, **95**, 6473 (*isol, cmr*)
 Brown, P.M. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1973, 2721 (*isol, cryst struct*)
 Dias, M.N. *et al*, *J. Chem. Res., Synop.*, 1990, 238 (*Dihydroxytingenone*)
 Bavovada, R. *et al*, *Planta Med.*, 1990, **56**, 380 (*Tingenin B, pmr, cmr*)
 Kutney, J.P. *et al*, *Can. J. Chem.*, 1992, **70**, 1455 (*isol, cryst struct*)
 Likhitwitayawuid, K. *et al*, *Phytochemistry*, 1993, **34**, 759 (*pmr, cmr, struct*)
 Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, TGD125.

Toddaquinoline

T-10092



$C_{14}H_9NO_3$ M 239.230

Alkaloid from the root bark of *Toddalia asiatica* (Rutaceae). Prisms (MeOH/Et₂O). Mp 235-237°.

Ac: Needles (CHCl₃/MeOH). Mp 174-176°.

Me ether: Prisms (MeOH). Mp 145-148°.

Et ether: Needles (CHCl₃/MeOH). Mp 165-168°.

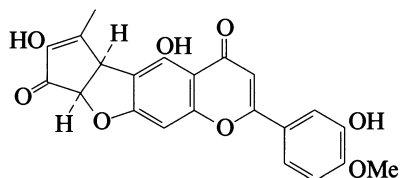
Chen, I.-S. *et al*, *Phytochemistry*, 1993, **34**, 1449 (*isol, uv, ir, pmr, struct*)

Torosaflavone C

T-10093

5b,8a-Dihydro-5,7-dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-6-methyl-4H,8H-cyclopenta[4.5]furo[3,2-g]-1-benzopyran-4,8-dione, 9CI

[144049-86-5]



$C_{22}H_{16}O_8$ M 408.364

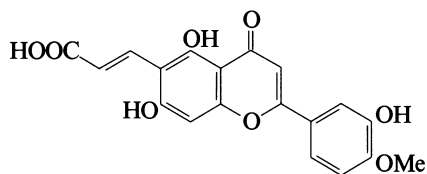
Constit. of the leaves of *Cassia torosa*. Pale yellow needles (MeOH). Mp 305.5-306°. Racemic.

Kitanaka, S. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 3254 (*isol, pmr, cmr*)

Torosaflavone D

T-10094

[144049-79-6]



$C_{19}H_{14}O_8$ M 370.315

Constit. of the leaves of *Cassia torosa*. Yellow needles (hexane/Py). Mp 244.5-255.5°.

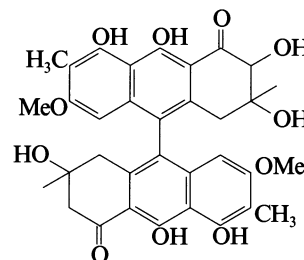
Kitanaka, S. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 3254 (*isol, pmr, cmr*)

Torosaol I

T-10095

2,2',3,3'-Tetrahydro-2,2',3,5,5',10,10'-heptahydroxy-7,7'-dimethoxy-2,2',6,6'-tetramethyl[9,9'-bianthracene]-4,4'-(1H,1'H)-dione, 9CI

[129212-24-4]



$C_{34}H_{34}O_{11}$ M 618.636

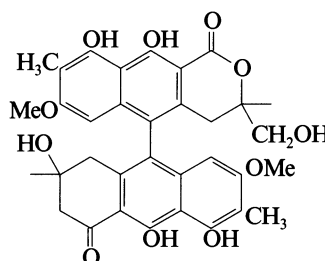
Constit. of the roots of *Cassia torosa*. Yellow-brown prisms (C₆H₆). Mp 300° dec.

Kitanaka, S. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 1292 (*isol, pmr, struct*)

Torosaol II

T-10096

[129085-29-6]



$C_{34}H_{34}O_{11}$ M 618.636

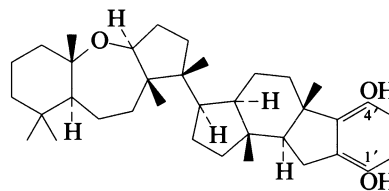
Constit. of the roots of *Cassia torosa*. Yellow-brown prisms (C₆H₆). Mp 230° dec.

Kitanaka, S. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 1292 (*isol*)

Toxicol B

T-10097

[149764-32-9]



$C_{36}H_{54}O_3$ M 534.821

Constit. of *Toxiclona toxius*. Powder. [α]_D -16° (c, 0.004 in MeOH/CH₂Cl₂).

4'-Sulfate: [149764-33-0]. **Toxicol C**

$C_{36}H_{54}O_6S$ M 614.885

Constit. of *T. toxius*. Oil (as Na salt). [α]_D +21° (c, 0.07 in MeOH) (as Na salt).

1',4'-Disulfate: [149764-31-8].

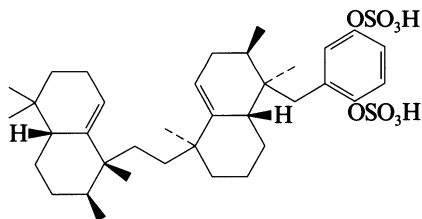
$C_{36}H_{54}O_9S_2$ M 694.949

Constit. of *T. toxius*. Oil (as di-Na salt). [α]_D +35° (c, 1 in MeOH) (Na salt).

Isaacs, S. *et al*, *Tetrahedron*, 1993, **49**, 4275 (*isol, pmr, cmr*)

Toxiusol

[149764-34-1]

 $C_{36}H_{54}O_8S_2$ M 678.950Constit. of *Toxiclona toxius*. Oil (as di-Na salt).Isaacs, S. *et al*, *Tetrahedron*, 1993, **49**, 4275 (*isol*, *pmr*, *cmr*)**T-10098**Found in some plant waxes, eg. cotton, carnauba, various leaf waxes. Main constit. of acid fraction of *Vitex divaricata* wood. Cryst. (C_6H_6/Me_2CO). Mp 93.5-94°.*Me ester*: [629-83-4]. $C_{31}H_{62}O_2$ M 466.830

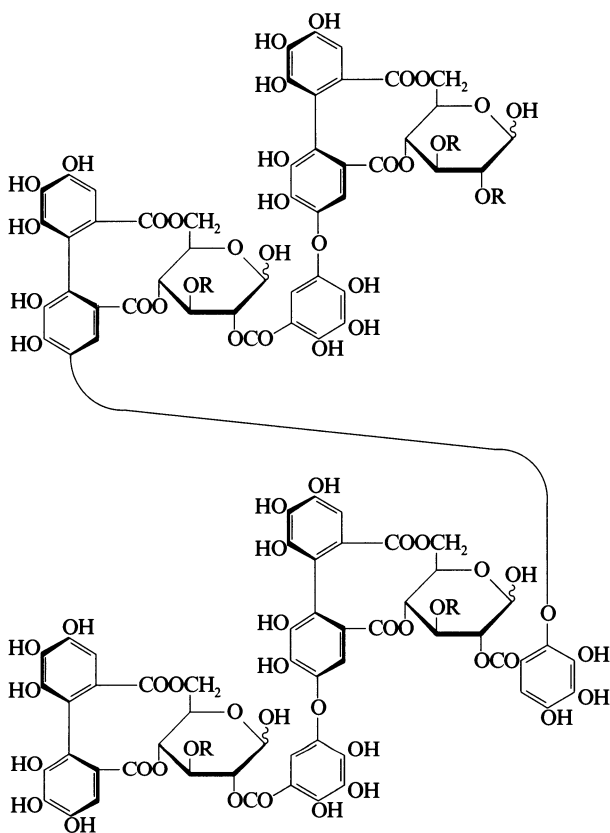
Cryst. (pet. ether). Mp 71.5°.

Et ester: [7505-12-6]. $C_{32}H_{64}O_2$ M 480.856

Cryst. (EtOH). Mp 70.5°.

Pentyl ester: [116044-06-5]. $C_{35}H_{70}O_2$ M 522.937Constit. of the leaves of *Ilex aquifolium*.*Hexyl ester*: [108706-11-2]. $C_{36}H_{72}O_2$ M 536.964Constit. of the waxes of *Abies* sp., *Ilex* sp. and *Picea* sp.*Tetradecyl ester*: [104932-41-4]. $C_{44}H_{88}O_2$ M 649.178Constit. of *Abutilon pakistanicum* and the green alga *Chlorella kessleri*.*Hentriacontyl ester*: [135729-36-1]. $C_{61}H_{122}O_2$ M 887.634Constit. of the leaves and stem of *Artemisia annua*.Robinson, G.M., *J. Chem. Soc.*, 1934, 1543 (*synth*)Cocker, W. *et al*, *J. Chem. Soc.*, 1962, 5194 (*isol*)Karrer, W. *et al*, *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd Ed., Birkhäuser Verlag, Basel, 1972-1985, no. 713 (*occur*)**Trapanin B**

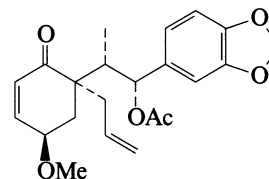
[132679-83-5]



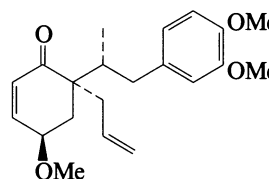
R = 3,4,5-Trihydroxybenzoyl

 $C_{136}H_{98}O_{88}$ M 3140.217Ellagitannin constit. of *Trapa japonica*. Off-white amorph. powder + $16H_2O$. $[\alpha]_D^{20} +16^\circ$ (c, 0.3 in MeOH).Hatano, T. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 2707 (*struct*, *uv*, *ir*, *cd*, *pmr*, *cmr*)**T-10099****5-Triacontanol****T-10101** $H_3C(CH_2)_{24}CH(OH)(CH_2)_3CH_3$ $C_{30}H_{62}O$ M 438.819*Ac*: [146356-95-8]. *5-Acetoxytriacontane* $C_{32}H_{64}O_2$ M 480.856Constit. of *Leucas aspera*. Cryst. (hexane). Mp 90-91°.Misra, T.N. *et al*, *Phytochemistry*, 1993, **32**, 199.**Triandrin A****T-10102**

[119087-41-1]

 $C_{22}H_{26}O_6$ M 386.444Neolignan. Constit. of the seeds of *Licaria triandra*.Castro, C.O. *et al*, *Rev. Latinoam. Quim.*, 1988, **19**, 60 (*isol*, *struct*)**Triandrin B****T-10103**

[117505-92-7]

 $C_{21}H_{28}O_4$ M 344.450Neolignan. Constit. of the seeds of *Licaria triandra*.Castro, C.O. *et al*, *Rev. Latinoam. Quim.*, 1988, **19**, 60 (*isol*, *struct*)**Triacontanoic acid****T-10100**

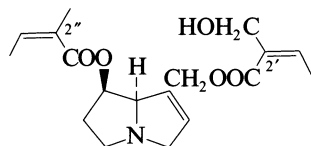
Updated Entry replacing T-01645

Melissic acid

[506-50-3]

 $H_3C(CH_2)_{28}COOH$ $C_{30}H_{60}O_2$ M 452.803

Triangularine

 Updated Entry replacing T-01655
 [87340-27-0]

 $C_{18}H_{25}NO_5$ M 335.399

Diester of Retronecine (see 2,3,5,7a-Tetrahydro-1-hydroxy-1*H*-pyrrolizine-7-methanol, T-00477) with angelic acid (see 2-Methyl-2-butenic acid, M-00844) and 2-Hydroxymethyl-2-butenic acid, H-02327. Alkaloid from *Senecio triangularis* and *Alkanna tinctoria* (Compositae, Boraginaceae). Pale-yellow oil. $[\alpha]_D^{25} + 2.2^\circ$ (c, 1 in $CHCl_3$).

2'E-Isomer: [87392-67-4]. **Neotriangularine**

 $C_{18}H_{25}NO_5$ M 335.399

Alkaloid from *S. triangularis* (Compositae). Yellow oil.

2"E-Isomer: [136173-28-9]. **Triangularicine**

 $C_{18}H_{25}NO_5$ M 335.399

Alkaloid from *S. hydrophyllus* and *S. mikanoides* (Compositae).

(2'E,2"E)-Isomer: [136173-29-0]. **Neotriangularicine**

 $C_{18}H_{25}NO_5$ M 335.399

Alkaloid from *S. hydrophyllus* (Compositae).

[136173-29-0]

Roitman, J.N. *et al*, *Aust. J. Chem.*, 1983, **36**, 1203 (*isol*, *pmr*, *cmr*, *ms*)

Röder, E. *et al*, *Phytochemistry*, 1984, **23**, 2125 (*isol*, *cmr*)

Stelljes, M.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 759 (*Triangularicine*, *Neotriangularicine*)

1,1,3-Tribromo-3-chloro-2-propanone, 9CI T-10105

1,1,3-Tribromo-3-chloroacetone

[55716-01-3]


 $C_3H_2Br_3ClO$ M 329.213

Minor component of the red algae *Asparagopsis taxiformis* and *Falkenbergia rufolanosa*. Liq.

Tetrahydrate: Solid (EtOH aq.). Mp 64-65°.

Moore, J.E. *et al*, *J. Am. Chem. Soc.*, 1917, **39**, 974 (*synth of acetone and tetrahydrate*)

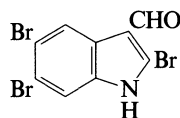
Fenical, W., *Tetrahedron Lett.*, 1974, 4463 (*isol*, *gc-ms*)

Bruneau, Y. *et al*, *C. R. Hebd. Seances Acad. Sci. Ser. D*, 1978, **286**, 603.

Combaut, G. *et al*, *Phytochemistry*, 1978, **17**, 1661 (*isol*, *glc*)

2,5,6-Tribromo-1*H*-indole-3-carboxaldehyde

2,5,6-Tribromo-3-formylindole


 $C_9H_4Br_3NO$ M 381.849

N-Me: [85908-67-4]. 2,5,6-Tribromo-1-methyl-1*H*-indole-3-carboxaldehyde

 $C_{10}H_6Br_3NO$ M 395.875

T-10104

Alkaloid from the marine bryozoan *Zoobotryon verticillatum*. Delays the metamorphosis in fertilised sea urchin eggs at low concentrations. Mp 228.5-229.5°.

Ortega, M.J. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 633 (*isol*, *uv*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

2,3,3-Tribromo-2-propenoic acid, 9CI
T-10107

2,3,3-Tribromoacrylic acid, 8CI

[71815-46-8]


 $C_3HBr_3O_2$ M 308.752

Minor component of the Hawaiian red alga *Asparagopsis taxiformis*. Monomer for styrene co-polymer exhibiting good photochemical and thermal stability. Yellowish hexagonal prisms (heptane). Mp 119-120°.

Me ester:

 $C_4H_3Br_3O_2$ M 322.778

 Liq. Bp_{0.8} 60°.

Strauss, F. *et al*, *Ber.*, 1930, **63**, 1868 (*synth*)

Levas, M. *et al*, *Bull. Soc. Chim. Fr.*, 1959, 1800 (*synth*)

Castro, C.E. *et al*, *J. Org. Chem.*, 1965, **30**, 586 (*synth*, *pmr*, *ir*)

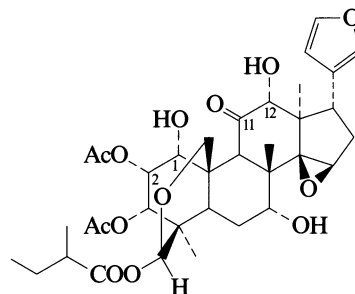
Roedig, A. *et al*, *Justus Liebigs Ann. Chem.*, 1967, **710**, 7 (*synth*)

Woolard, F.X. *et al*, *Phytochemistry*, 1979, **18**, 617 (*isol*, *synth*, *glc*, *Me ester*)

Trichilin B
T-10108

Updated Entry replacing T-01696

[77210-33-4]


 $C_{35}H_{46}O_{13}$ M 674.741

Constit. of *Trichilia roka* oil. Active against the larval stage of the Southern Army Worm *Spodoptera eridania*. Oil or powder.

12-Deoxy: [77196-03-3]. **Trichilin D. Meliatoxin A₁**

 $C_{35}H_{46}O_{12}$ M 658.741

Isol. from *T. roka* and *Melia azedarach*. Active against *S. eridania*. Oil. Mp 148-154° dec. Trichilin D and Meliatoxin A₁ have not been compared but identical structs. were assigned (except for abs. config. of 2-methylbutanoyl residue).

1-O-Ac, 2-O-de-Ac: [66700-76-3]. **Aphanastatin. Trichilin E**

 $C_{35}H_{46}O_{13}$ M 674.741

Constit. of *Aphanamixis grandiflora* and *T. roka*. Cryst. ($CHCl_3/MeOH$) or oil. Mp 269-271°. $[\alpha]_D^{25} - 38.9^\circ$ (c, 0.46 in $Py/MeOH$)-. Aphanastatin and Trichilin E appear to be identical despite different phys. props.

12-Epimer: [77182-69-5]. **Trichilin A**

 $C_{35}H_{46}O_{13}$ M 674.741

Isol. from *T. roka*. Active against *S. eridania*. Cryst. Mp 191-192° dec.

12-Epimer, 7-Ac: 7-Acetyltrichilin A

 $C_{37}H_{48}O_{14}$ M 716.778

 From *T. roka*.

12-Ketone, 11β-alcohol: [77182-68-4]. **Trichilin C**

 $C_{35}H_{46}O_{13}$ M 674.741

Constit. of *T. roka* oil. Active against *S. eridania*. Oil.

12-Epimer, 2-O-de-Ac: **Trichilin G**

$C_{33}H_{44}O_{12}$ M 632.703

Constit. of *T. roka*.

12-Epimer, 1-O-Ac, 3-O-de-Ac: **Trichilin F**

$C_{35}H_{46}O_{13}$ M 674.741

Constit. of *T. roka*.

[87725-70-0]

Polonsky, J. *et al*, *J. Am. Chem. Soc.*, 1978, **100**, 2575

(*Aphanastatin*)

Nakatani, M. *et al*, *J. Am. Chem. Soc.*, 1981, **103**, 1228 (*isol*)

Oelrichs, P.B. *et al*, *Phytochemistry*, 1983, **22**, 531 (*Meliatoxin A*)

Nakatani, M. *et al*, *Phytochemistry*, 1985, **24**, 195 (*deriv*)

Nakatani, M. *et al*, *Heterocycles*, 1993, **36**, 725 (*Trichilins A, F, G*)

Trichloroacetaldehyde, 9CI

T-10109

Chloral. Trichloroethanal

[75-87-6]

Cl_3CCHO

C_2HCl_3O M 147.387

Versatile synthetic reagent. Intermed. in synth. of DDT.

Liq. Sol. H_2O , EtOH, Et_2O . d_4^{20} 1.542. Mp -57° to -58° . Bp 98° . pK_a 10.04 (25°). n_D^{20} 1.4557.

► Eye, skin and respiratory tract irritant. LD₅₀ (mus, ipr) 600 mg/kg. FM7870000.

*NH*₃ addn. compd.: Chloral ammonia

Needles. Insol. H_2O , sol. C_6H_6 , Et_2O . Mp 72-74°. Slowly diss. in H_2O with dec.

Oxime: [1117-99-3].

$C_2H_2Cl_3NO$ M 162.402

Mp 56°. Bp₂₀ 85°.

► Explosive reaction with alkali.

2,4-Dinitrophenylhydrazon: Yellow cryst. Mp 131°.

Mono-Me acetal: [18271-82-4]. 2,2,2-Trichloro-1-methoxyethanol. Chloral methylalcoholate

$C_3H_5Cl_3O_2$ M 179.429

Needles. Mp 50°. Bp 98°, Bp 106°.

Di-Me acetal: [18272-02-1]. 1,1,1-Trichloro-2,2-dimethoxyethane

$C_4H_7Cl_3O_2$ M 193.456

d_4^0 1.40. Bp 183°.

Mono-Et acetal: [515-83-3]. 2,2,2-Trichloro-1-ethoxyethanol, 9CI

$C_4H_7Cl_3O_2$ M 193.456

Constit. of the aerial parts of *Oxytropis glabra*. Mp 53-54° (46°).

[110085-22-8]

Page, A.G., *Justus Liebigs Ann. Chem.*, 1884, **225**, 209 (*synth*)

Willcox, M. *et al*, *J. Am. Chem. Soc.*, 1916, **38**, 1837 (*synth*)

Ger. Pat., 734 732, (1944); *CA*, **38**, 3671 (*synth*)

Hesse, B. *et al*, *J. Prakt. Chem.*, 1974, **316**, 304 (*hemimethyl acetal*)

Cieslak, M. *et al*, *Przem. Chem.*, 1977, **56**, 594; 1978, **57**, 645; *CA*, **88**, 61932w; **90**, 103329b (*synth*)

Fieser and Fieser's *Reagents for Organic Synthesis*, Wiley, 1980, **8**, 82.

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, TIH825.

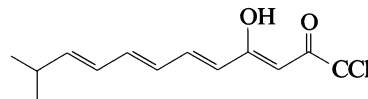
Luxon, S.G., *Hazards in the Chemical Laboratory*, 5th edn., Royal Society of Chemistry, Cambridge, 1992, 266.

1,1,1-Trichloro-4-hydroxy-11-methyl-3,5,7,9-dodecatetraen-2-one, 9CI

T-10110

Neocarzirin B

[125002-00-8]



$C_{13}H_{15}Cl_3O_2$ M 309.618

Prod. by *Streptomyces carzinostaticus*. Antitumour agent.

1-Dechloro: [124958-30-1]. 1,1-Dichloro-4-hydroxy-11-methyl-3,5,7,9-dodecatetraen-2-one, 9CI. *Neocarzirin C*

$C_{13}H_{16}Cl_2O_2$ M 275.174

Prod. by *S. carzinostaticus*. Antitumour agent.

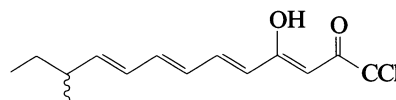
Japan. Pat., 89 224 341, (1989); *CA*, **112**, 75322 (*isol*)

1,1,1-Trichloro-4-hydroxy-11-methyl-3,5,7,9-tridecatetraen-2-one

T-10111

Neocarzirin A

[124958-29-8]



$C_{14}H_{17}Cl_3O_2$ M 323.645

Prod. by *Streptomyces carzinostaticus*. Antitumour agent.

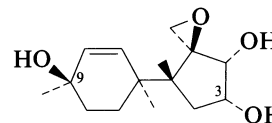
Japan. Pat., 89 224 341, (1989); *CA*, **112**, 75322 (*isol*)

Trichotriol

T-10112

Updated Entry replacing T-01744

[109890-37-1]



$C_{15}H_{24}O_4$ M 268.352

9-Config. revised in 1993. *Isol.* from *Fusarium sporotrichioides*. Mycotoxin. Oil.

3-Deoxy: [40522-81-4]. *Trichodiol*

$C_{15}H_{24}O_3$ M 252.353

Isol. from the broth of *Trichothecium roseum*. Artifact.

Nozoe, S. *et al*, *Tetrahedron*, 1972, **28**, 5105.

Corley, D.G. *et al*, *J. Org. Chem.*, 1987, **52**, 4405.

Hesketh, A.R. *et al*, *Phytochemistry*, 1993, **32**, 105 (*stereochem*)

17-Tricosenal

T-10113

$H_3C(CH_2)_4CH=CH(CH_2)_{15}CHO$

$C_{23}H_{44}O$ M 336.600

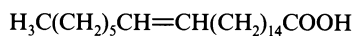
(*Z*)-form [140163-47-9]

Constit. of the sponge *Amphimedon compressa*.

Carballeira, N.M. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 333.

16-Tricosenoic acid

T-10114

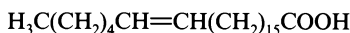

 $\text{C}_{23}\text{H}_{44}\text{O}_2$ M 352.599

(Z)-form [140163-36-6]

 Constit. of the sponges *Amphimedon compressa* and *Mycale laevis*.

 Carballeira, N.M. et al, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 333.
17-Tricosenoic acid

T-10115

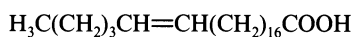

 $\text{C}_{23}\text{H}_{44}\text{O}_2$ M 352.599

(Z)-form [140163-37-7]

 Constit. of the sponge *Amphimedon compressa*.

 Carballeira, N.M. et al, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 333.
18-Tricosenoic acid

T-10116


 $\text{C}_{23}\text{H}_{44}\text{O}_2$ M 352.599

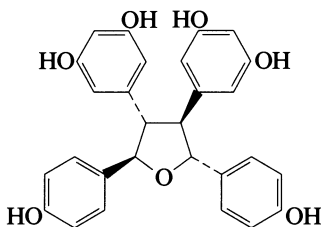
(Z)-form [140163-38-8]

 Constit. of the sponge *Amphimedon compressa*.

 Carballeira, N.M. et al, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 333.
Tricuspidatol A

T-10117

[137319-39-2]



Relative configuration

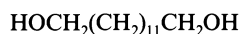
 $\text{C}_{28}\text{H}_{24}\text{O}_7$ M 472.493

 Constit. of the stemwood of *Parthenocissus tricuspidata*.

 Lins, A.P. et al, *Phytochemistry*, 1991, **30**, 3144 (isol, struct)
1,13-Tridecanediol, 9CI

T-10118

[13362-52-2]


 $\text{C}_{13}\text{H}_{28}\text{O}_2$ M 216.363

Mp 81°.

Di-Ph ether: [141620-05-5]. 1,1'-[1,13-Tridecanediylbis(oxy)] bisbenzene, 9CI. 1,13-Diphenoxytridecane

 $\text{C}_{25}\text{H}_{36}\text{O}_2$ M 368.558

 Isol. from the leaves of *Arachis hypogaea* infected with *Puccinia arachidis*. Phytoalexin.

 Guyer, A. et al, *Helv. Chim. Acta*, 1955, **38**, 976 (synth)

 Gold'farb, Y.L. et al, *J. Gen. Chem. USSR (Engl. Transl.)*, 1955, **25**, 1321 (synth)

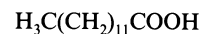
 Bianchetti, G., *Farmaco, Ed. Sci.*, 1957, **12**, 441; *CA*, **51**, 17914 (synth)

 Colonge, J. et al, *Bull. Soc. Chim. Fr.*, 1959, 1248 (synth)

 Rao, P.V.S. et al, *Oleagineux*, 1991, **46**, 501; *CA*, **116**, 252152 (di-Ph ether)
Tridecanoic acid

T-10119

[638-53-9]


 $\text{C}_{13}\text{H}_{26}\text{O}_2$ M 214.347

 Constit. of *Erythrina crista-galli* trunk wood and bark.

 Cryst. (Me_2CO). Mp 44.5-45.5°. Bp₂₄ 199-200°.

 ▶ LD₅₀ (mus, ivn) 130 mg/kg. YD3850000.

Zn salt: Needles (3-methylbutanol). Mp 128°.

Me ester: [1731-88-0].

 $\text{C}_{14}\text{H}_{28}\text{O}_2$ M 228.374
Mp 6.5°. Bp₁ 90-95°.

Et ester: [28267-29-0].

 $\text{C}_{15}\text{H}_{30}\text{O}_2$ M 242.401
Bp₆₀ 197-198°, Bp₅ 163-165°.

Amide: [34778-57-9].

 $\text{C}_{13}\text{H}_{27}\text{NO}$ M 213.362

Mp 100°.

Nitrile: [629-60-7].

 $\text{C}_{13}\text{H}_{25}\text{N}$ M 195.347

Mp 9.7°. Bp 275°.

 Org. Synth., 1936, **16**, 35.

 Karlsson, K. et al, *Acta Chem. Scand.*, 1972, **26**, 2837 (isol)

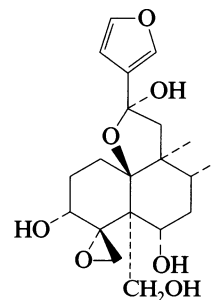
 Quraishi, M.S., *Can. Entomol.*, 1972, **104**, 1505 (tox)

 Peng, A.C., *Lipids*, 1974, **9**, 299 (isol)

 Imamura, H. et al, *Gigu Daigaku Nogakubu Kenkyu Hokoku*, 1981, **77**; *CA*, **96**, 196524y (occur)

 Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, TJH750, TJI250.
4,18:10,12:15,16-Trieпоxy-13(16),14-clerodadiene-3,6,12,19-tetrol

T-10120


 $\text{C}_{20}\text{H}_{28}\text{O}_7$ M 380.437

(ent-3β,4β,6β,10α,12β)-form

 3,6,19-Tri-Ac: [150132-97-1]. *Teucrolin A*
 $\text{C}_{26}\text{H}_{34}\text{O}_{10}$ M 506.549

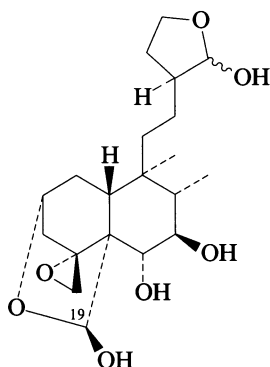
 Constit. of *Teucrium olivarianum*. Plates (EtOAc/hexane). Mp 119-120°. [α]_D -45.2° (c, 0.1 in C₆H₆).

[149340-19-2]

 Al-Yahya, M.A. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 830 (isol, pmr, cmr, cryst struct)

2,19:4,18:15,16-Trieпоxy-6,7,16,19-clerodanetretol

T-10121

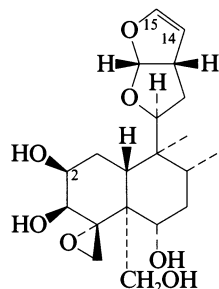
C₂₀H₃₂O₇ M 384.469**(ent-2β,4β,6β,7α,13R,16ξ,19S)-form**19-Tigloyl, 6-Ac: [149639-78-1]. *Scutegalin B*C₂₇H₄₀O₉ M 508.608Constit. of *Scutellaria galericulata*.

[149820-00-8]

Rodríguez, B. *et al*, *Phytochemistry*, 1993, **33**, 309 (*isol, pmr, cmr, cryst struct*)**4,18:11,16:15,16-Trieпоxy-14-clerodene-2,3,6,19-tetrol**

T-10122

Updated Entry replacing T-01880

**(ent-2α,3α,4β,6β,11R,13R,16R)-form**C₂₀H₃₀O₇ M 382.453**(ent-2α,3α,4β,6β,11R,13R,16R)-form**14,15-Dihydro, 3-(2-methylpropanoyl), 6,19-di-Ac: [79568-28-8]. *Ivain I*C₂₈H₄₂O₁₀ M 538.634Isol. from *Ajuga iva*. Amorph. [α]_D –8.0° (c, 8.0 in CHCl₃).14,15-Dihydro, 3-(2-methylbutanoyl), 6,19-di-Ac: [79495-88-8]. *Ivain IV*C₂₉H₄₄O₁₀ M 552.661Isol. from *A. iva*. Amorph. [α]_D +4.1° (c, 4.2 in CHCl₃).14,15-Dihydro, 15-ethoxy, 3-(2-methylpropanoyl), 6,19-di-Ac: [79495-89-9]. *Ivain III*C₃₀H₄₆O₁₁ M 582.687Isol. from *A. iva*. Amorph. [α]_D +31.7° (c, 4.6 in CHCl₃).**(ent-2β,3α,4β,6β,11R,13R,16R)-form**3-(2-Methylpropanoyl), 6,19-di-Ac: [131086-64-1]. *Ajugachin A*C₂₈H₄₀O₁₀ M 536.618Constit. of *A. chamaepitys*. Cryst. (Et₂O/pet. ether). Mp 178-181°. [α]_D²² –50.7° (c, 0.946 in CHCl₃).3-(2-Methylbutanoyl), 6,19-di-Ac: [87441-78-9]. *Ajugapitin*C₂₉H₄₂O₁₀ M 550.645Constit. of *A. chamaepitys*. Cryst. (Et₂O/hexane). Mp 196-198°. [α]_D²⁰ –70.3° (c, 0.26 in CHCl₃).

3-(3-Acetoxy-2-methylbutanoyl), 6,19-di-Ac: [131086-65-2].

Ajugachin BC₃₁H₄₄O₁₂ M 608.681Constit. of *A. chamaepitys*. Cryst. (Et₂O/pet. ether). Mp 207-209°. [α]_D²² –66° (c, 0.288 in CHCl₃).

14,15-Dihydro, 3-(2-methylbutanoyl), 6,19-di-Ac:

DihydroajugapitinC₂₉H₄₄O₁₀ M 552.661Constit. of *A. chamaepitys*. Cryst. (EtOAc/Et₂O). Mp 212-214°. [α]_D²⁰ –40° (c, 0.25 in CHCl₃).3-Tigloyl, 6,19-di-Ac: [129145-62-6]. ***Galericulin***C₂₉H₄₀O₁₀ M 548.629Isol. from *Scutellaria galericulata*.3-(2-Acetoxy-2-methylpropanoyl), 6,19-di-Ac: ***Clerodendrin A***C₃₀H₄₂O₁₂ M 594.655Constit. of *Clerodendron inerme*. Cryst. (EtOAc/hexane). Mp 208-210°. [α]_D²² –71° (c, 0.96 in CHCl₃).3-(2-Acetoxy-2-methylbutanoyl), 6,19-di-Ac: ***Clerodendrin B***C₃₁H₄₄O₁₂ M 608.681Constit. of *C. inerme*. Cryst. (EtOAc/hexane). Mp 228-230°. [α]_D²² –67° (c, 0.209 in CHCl₃).Camps, F. *et al*, *Chem. Lett.*, 1982, 1053 (*Ivains*)Hernández, A. *et al*, *Phytochemistry*, 1982, **21**, 2909 (*Ajugapitin*)Cole, M.D. *et al*, *Phytochemistry*, 1990, **29**, 1793 (*Galericulin*)Boneva, I.M. *et al*, *Phytochemistry*, 1990, **29**, 2931 (*Ajugachins*)Rao, L.J.M. *et al*, *Phytochemistry*, 1993, **34**, 572 (*Clerodendrins*)**Trifolin†**

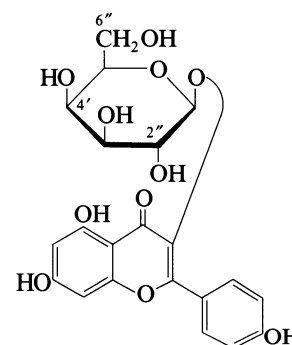
T-10123

Updated Entry replacing T-01900

3-O-β-D-Galactopyranosyloxy-4',5,7-trihydroxyflavone.

Kaempferol 3-galactoside. Trifolioside

[23627-87-4]

C₂₁H₂₀O₁₁ M 448.382Widespread occurrence in plant world e.g. *Campanula* and *Diospyros* spp., *Trifolium pannonicum* flowers, *Pinus sylvestris*, fruits of *Scolymus hispanicus* and leaves of *Lespedeza cuneata*. Yellowish needles (Py aq.). Mp 235° (229-231°).

6'-O-L-Arabinopyranoside: [78182-90-8].

C₂₆H₂₈O₁₅ M 580.498Isol. from *Lysichiton camtschatscense*.

2'-O-β-D-Xylopyranoside: [83144-68-7].

C₂₆H₂₈O₁₅ M 580.498Isol. from *Armoracia rusticana*.

2'-O-α-L-Rhamnopyranoside: [108906-96-3].

C₂₇H₃₀O₁₅ M 594.525Isol. from *Chenopodium fremontii*.

6'-O-β-D-Glucopyranoside: [73803-52-8].

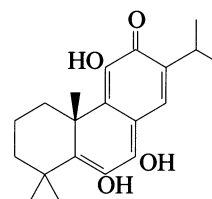
C₂₇H₃₀O₁₆ M 610.524Isol. from *Eryngium planum*.

- 2"-O- β -D-Glucopyranoside: [31512-06-8]. **Panasenoside**.
Lily
C₂₇H₃₀O₁₆ M 610.524
Isol. from *Lilium candidum*, *Panax ginseng*, *Sambucus sieboldiana* and *Hypericum* spp. Cryst. (EtOH). Mp 225-228° dec.
- 0"- β -D-Galactopyranoside: [31514-24-6]. **Kaempferol 3-digalactoside**
C₂₇H₃₀O₁₆ M 610.524
Isol. from *Paeonia decora*.
- 5-O- β -D-Galactopyranoside: [91377-10-5]. **Kaempferol 3,5-digalactoside**
C₂₇H₃₀O₁₆ M 610.524
Isol. from *Indigofera hirsuta*.
- 7-O- β -D-Galactopyranoside: [54557-66-3].
C₂₇H₃₀O₁₆ M 610.524
Isol. from *Pachyphragma macrophyllum*. Mp 222-224°.
- 0"-Rhamnosylglucoside: [64812-32-4].
C₃₃H₄₀O₂₀ M 756.667
Isol. from *Peltophorum africanum*.
- 6"-O-Malonyl: [81202-52-0].
C₂₄H₂₂O₁₄ M 534.429
Isol. from *Ceterach officinarum*.
- 6"-O-(2-O-Acetyl- α -L-arabinopyranoside):
C₂₈H₃₀O₁₆ M 622.535
Isol. from *Trillium tschonoskii*. Pale yellow powder (MeOH aq.). $[\alpha]_D^{20}$ -53.9° (c, 1.52 in Py).
- 6"-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)-4-O-acetyl- α -L-rhamnopyranoside]: [79395-74-7]. **Faralatoside**
C₃₅H₄₂O₂₁ M 798.704
Isol. from *Colubrina faralaotra*. Mp 197-199°.
- 2"-O- β -D-Apiofuranoside: [132294-84-9].
C₂₆H₂₈O₁₅ M 580.498
Isol. from *Chenopodium quinoa* and *Monnina sylvatica*. Yellow powder. Mp 166-169°. $[\alpha]_D$ -52° (c, 0.1 in MeOH).
- 2"-O- β -D-Apiofuranoside, 6"-O- α -L-rhamnopyranoside: [132185-73-0].
C₃₂H₃₈O₁₉ M 726.641
Constit. of *Chenopodium quinoa*.
- 6"-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranoside]: [83170-31-4].
C₃₃H₄₀O₁₉ M 740.668
Isol. from *Rhamnus leptophylla*. Yellow powder. $[\alpha]_D^{20}$ -42.7° (c, 0.99 in MeOH).
- 6"-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 4)- α -L-rhamnopyranoside]: [123618-28-0]. **Frangulatrioside A**
C₃₃H₄₀O₁₉ M 740.668
Constit. of *Actinidia* spp. *Rhamnus frangula* and *Vigina huteola*.
- 6"-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 4)-3-O-acetyl- α -L-rhamnopyranoside]: [128308-96-3].
C₃₅H₄₂O₂₀ M 782.705
Constit. of *Actinidia* spp.
[11055-94-0]
- Power, F.B. *et al*, *J. Chem. Soc.*, 1910, **97**, 231 (*isol*)
Komatsu, M. *et al*, *Yakugaku Zasshi*, 1969, **89**, 122 (*Panasenoside*)
Ulebullen, A. *et al*, *Z. Naturforsch., B*, 1970, **25**, 114 (*galactoside*)
Schultz, G., *Z. Naturforsch., B*, 1971, **26**, 972.
Zemtsova, G.N. *et al*, *Khim. Prir. Soedin.*, 1974, **10**, 669; *Chem. Nat. Compd. (Engl. Transl.)*, 689 (*7-galactoside*)
Nair, A.G. *et al*, *Indian J. Chem., Sect. B*, 1977, **15**, 1045.
Roschin, Yu.V., *Khim. Prir. Soedin.*, 1977, **13**, 576; *Chem. Nat. Compd. (Engl. Transl.)*, 481.
El Sherbeiny, A.E. *et al*, *Planta Med.*, 1977, **32**, 165 (*rhamnosylglucoside*)
Crawford, D.J. *et al*, *Biochem. Syst. Ecol.*, 1978, **6**, 189 (*2"-rhamnoside*)
Okuyama, T. *et al*, *Chem. Pharm. Bull.*, 1978, **26**, 3071 (*cmr*)
Hiller, K. *et al*, *Pharmazie*, 1980, **35**, 113 (*6"-glucoside*)
Imperato, F., *Chem. Ind. (London)*, 1981, 696 (*6"-malonate*)

- Williams, C.A. *et al*, *Phytochemistry*, 1981, **20**, 217 (*6"-arabinoside*)
Guinaudeau, H. *et al*, *Phytochemistry*, 1981, **20**, 1113 (*6"-glucosylacetylramnoside*)
Larsen, L.M. *et al*, *Phytochemistry*, 1982, **21**, 1029 (*2"-xyloside*)
Nakano, K. *et al*, *Phytochemistry*, 1983, **22**, 1249 (*6"-acetylramnoside*)
Rao, J.U.M. *et al*, *Indian J. Chem., Sect. B*, 1984, **23**, 91 (*5-galactoside*)
Nagy, E. *et al*, *Z. Naturforsch., B*, 1984, **39**, 1813 (*Panasenoside*)
The Flavonoids: Advances in Research since 1980, (Eds. Harborne, J.B. *et al*), Chapman and Hall, London, 1988.
Pomilio, A.B. *et al*, *J. Nat. Prod. (Lloydia)*, 1989, **52**, 511 (*Frangulatrioside A*)
Webby, R.F. *et al*, *Phytochemistry*, 1990, **29**, 289 (*6"-Rhamnosylramnoside*)
De Simone, F. *et al*, *Phytochemistry*, 1990, **29**, 3690 (*deriv*)

6,7,11-Trihydroxy-5,7,9(11),13-abietatetraen-12-one

T-10124

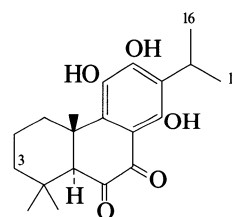
5,6-Didehydro-7-hydroxytaxodone
[150640-79-2]C₂₀H₂₆O₄ M 330.423Constit. of *Salvia munzii*. Cryst.Luis, J.G. *et al*, *Tetrahedron*, 1993, **49**, 6277 (*isol, pmr, cmr*)**11,12,14-Trihydroxy-8,11,13-abietatriene-6,7-dione**

T-10125

Updated Entry replacing T-01923

Coleon V

[65714-70-7]

C₂₀H₂₆O₅ M 346.422Compds. covered by this entry are the keto tautomers of those covered by 6,11,12,14-Tetrahydroxy-5,8,11,13-abietatetraen-7-one, T-00567. Isol. from *Plectranthus myrianthus* and *Coleus carnosus*. Red cryst. (Me₂CO/CH₂Cl₂/hexane). Mp 158-160° dec.**3 β -Hydroxy**: [63521-55-1]. **3 β ,11,12,14-Tetrahydroxy-8,11,13-abietatriene-6,7-dione. Coleon T**C₂₀H₂₆O₆ M 362.422From *P. caninus*. Red-orange amorph. powder.**16-Hydroxy**: [38991-79-6]. **11,12,14,16-Tetrahydroxy-8,11,13-abietatriene-6,7-dione. Coleon D**C₂₀H₂₆O₆ M 362.422Isol. from yellow leaf glands of *C. aquaticus*. Orange-red cryst. (EtOH/2-propanol). Mp 236-239°. Tautomeric with Coleon C.**3 β -Acetoxy, 16-hydroxy**: [51787-39-4]. **Coleon I**C₂₂H₂₈O₈ M 420.458Constit. of *C. somaliensis*. Orange solid. Not obt. pure.**16-Hydroxy, 3 β ,17-diacetoxy**: [51787-38-3]. **Coleon K**

$C_{24}H_{30}O_{10}$ M 478.495

Isol. from *C. somaliensis*. Orange cryst.
(Me_2CO /hexane). Mp 174-175° dec.

3 β -Formyloxy, 16-hydroxy: [57932-72-6]. *Coleon I'*

$C_{21}H_{26}O_8$ M 406.432

Constit. of *P. sp. nov.* Orange needles. Mp 179-181.5°.
Struct. revised in 1977.

Rüedi, P. et al, *Helv. Chim. Acta*, 1972, **55**, 1736; 1977, **60**, 1233
(*Coleon D*, *Coleon I*, *Coleon K*)

Rüedi, P. et al, *Helv. Chim. Acta*, 1975, **58**, 1899 (*Coleon I'*)

Weber, H.P. et al, *Helv. Chim. Acta*, 1976, **59**, 1221 (*cryst struct*,
Coleon D)

Arihara, S. et al, *Helv. Chim. Acta*, 1977, **60**, 1443.

Miyase, T. et al, *Helv. Chim. Acta*, 1977, **60**, 2770 (*isol*)

Yoshizaki, F., *Helv. Chim. Acta*, 1979, **62**, 2754 (*isol*)

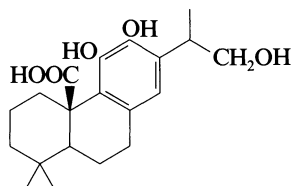
Matsumoto, T. et al, *Bull. Chem. Soc. Jpn.*, 1982, **55**, 1168 (*synth*)

11,12,16-Trihydroxy-8,11,13-abietatrien-20-oic acid T-10126

Updated Entry replacing T-01925

16-Hydroxycarnosic acid

[128286-67-9]



$C_{20}H_{28}O_5$ M 348.438

Constit. of *Salvia apiana* and *S. mellifera*.

16-Ac: 16-Acetylcarnosic acid

$C_{22}H_{30}O_6$ M 390.475

Constit. of *S. mellifera*. Amorph. solid.

Tri-Ac, Me ester: [128286-68-0].

Cryst. Mp 130-133°. $[\alpha]_D^{24} + 144.6^\circ$ (c, 9.3 in $CHCl_3$).

20-Aldehyde: 11,12,16-Trihydroxy-8,11,13-abietatrien-20-al

$C_{20}H_{28}O_4$ M 332.439

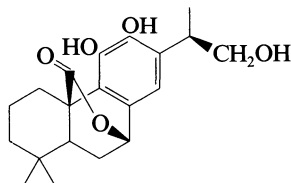
Isol. from *S. mellifera*. Amorph. solid.

Pentali, S.J. et al, *Phytochemistry*, 1990, **29**, 993 (*isol*, *pmr*, *cmr*)

Gonzalez, A.G. et al, *Phytochemistry*, 1991, **30**, 4068 (*aldehyde*)

Luis, J.G. et al, *Phytochemistry*, 1993, **33**, 635 (*isol*, *pmr*, *cmr*)

11,12,16-Trihydroxy-8,11,13-abietatrien-20,7-olide T-10127



$C_{20}H_{26}O_5$ M 346.422

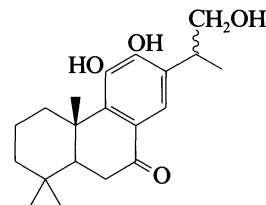
(7 β ,15R)-form [149697-32-5] 16-Hydroxycarnosol

Constit. of *Salvia mellifera*. Cryst. $[\alpha]_D - 72.39^\circ$ (c, 0.384
in $CHCl_3$).

Luis, J.G. et al, *Tetrahedron*, 1993, **49**, 4993 (*isol*, *pmr*, *cmr*, *cryst
struct*)

11,12,16-Trihydroxy-8,11,13-abietatrien-7-one T-10128

one
Cyrtophyllone B



$C_{20}H_{28}O_4$ M 332.439

Constit. of *Clerodendron cyrtophyllum*. Needles ($CHCl_3$).

Mp 249-251°. $[\alpha]_D + 17.1^\circ$ (c, 1.46 in $CHCl_3$).

Tian, X. et al, *Chem. Pharm. Bull.*, 1993, **41**, 1415 (*isol*, *pmr*, *cmr*)

2',4',6'-Trihydroxyacetophenone, 8CI T-10129

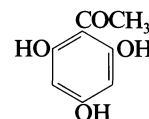
Updated Entry replacing T-01934

1-(2,4,6-Trihydroxyphenyl)ethanone, 9CI. 2-Acetyl-1,3,5-

benzenetriol. Phloracetophenone. Acetophloroglucinol.

Acetylphloroglucinol. Phloroacetophenone

[480-66-0]



$C_8H_8O_4$ M 168.149

Isol. from bark of *Prunus domestica*. Needles (H_2O). Mp
219° (anhyd).

4'-Me ether: [7507-89-3]. 2',6'-Dihydroxy-4'-
methoxyacetophenone. 4-O-Methylphloracetophenone

$C_9H_{10}O_4$ M 182.176

Isol. from the bark of *P. domestica*. Mp 141-142°.

4'-Me ether, O- β -D-glucopyranoside: [24587-97-1]. **Pleioside**.
Domesticoside

$C_{15}H_{20}O_9$ M 344.318

Glycoside from the bark of *P. domestica* and from the
fern *Pleopeltis thunbergiana*. Needles (MeOH). Mp 189-

191° (sinters at 183°), Mp 200-203°. $[\alpha]_D - 41.6^\circ$ (Py).

Identity of samples not apparently establ. Higher Mp.
and opt. rotn. refer to Pleioside.

4'-Me ether, 2-O-gentiobioside: [63013-34-3]. **Echisioside**

$C_{21}H_{30}O_{14}$ M 506.460

Constit. of *Dorema aitchisonii*. Mp 167-169°. $[\alpha]_D^{20}$

$- 54.4^\circ$ (c, 1.14 in H_2O).

4'-Me ether, 2-O-[α -D-glucopyranosyl-(1 \rightarrow 6)- β -D-
glucopyranoside]: [60197-59-3]. **Hyrmanoside**

$C_{21}H_{30}O_{14}$ M 506.460

Constit. of *D. hyrcanum*.

4'-Me ether, 2'-O-rutinoside: [139934-64-8].

$C_{21}H_{30}O_{13}$ M 490.460

Constit. of the bark of *Rhamnus libanoticus*. Needles
(MeOH). Mp 156-157°. $[\alpha]_D^{20} - 89.35^\circ$ (c, 1 in MeOH).

2',4'-Di-Me ether: [90-24-4]. 2'-Hydroxy-4',6'-

dimethoxyacetophenone. **Xanthoxylin**. *Brevifolin*. 6-
Methoxyypaeonol

$C_{10}H_{12}O_4$ M 196.202

Obt. from *Xanthoxylum piperitum*, *X. alatum* (Rutaceae),

Artemisia brevifolia (Compositae), *Hippomane mancinella*

and *Sapium sebiferum* (Euphorbiaceae). Cryst. (EtOH).

Mp 85-88°.

2',4'-Di-Me ether, Ac: [59263-72-8].

$C_{12}H_{14}O_5$ M 238.240

Prisms (EtOH). Mp 107°.

2',4'-Di-Me ether, oxime:

$C_{10}H_{13}NO_4$ M 211.217
Mp 108-110°.

Tri-Me ether: [832-58-6]. 2',4',6'-Trimethoxyacetophenone

$C_{11}H_{14}O_4$ M 210.229

Isol. from tubers of *Lycoris radiata*. Prisms. Mp 103°.

2'-O-(3,7-Dimethyl-2,6-octadienyl): [142905-39-3]. 2'-Geranyloxy-4',6'-dihydroxyacetophenone

$C_{18}H_{24}O_4$ M 304.385

Isol. from the fruit of *Evodia merrillii*. Needles (EtOAc/hexane). Mp 147-150°.

4'-O-(3,7-Dimethyl-2,6-octadienyl): [142905-40-6]. 4'-Geranyloxy-2',6'-dihydroxyacetophenone

$C_{18}H_{24}O_4$ M 304.385

Isol. from the fruit of *E. merrillii*. Wax.

2'-Me ether, 4'-O-(3-methyl-2-butenyl): 2-Acetyl-1-O-methyl-6-O-prenylphloroglucinol. 1-Acetyl-4-isopentenyl-6-methylphloroglucinol (incorr.)

$C_{14}H_{18}O_4$ M 250.294

Isol. from *Leucantheropsis pulverentula*. Mp 60-61°.

2'-O-(p-Hydroxyphenylacetyl), 6'-O-(4-hydroxy-3-methylbutanoyl), 4'-O-[α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-glucopyranoside]: [119558-02-0]. **Cassioside**[†]

$C_{33}H_{42}O_{17}$ M 710.685

Isol. from seeds of *Cassia marginata*. Mp 172°.

2'-O-(3-Hydroxy-3-methylbutanoyl), 4'-O-(4-p-hydroxyphenylacetyl)- β -D-glucopyranoside): [119558-04-2]. **Marginoside**

$C_{27}H_{32}O_{13}$ M 564.542

Isol. from *C. marginata*. Mp 210°.

v. Kostanecki, S. et al, *Ber.*, 1899, **32**, 2262.

Shinoda, J. et al, *CA*, 1928, **22**, 2947.

Howells, H.P. et al, *J. Am. Chem. Soc.*, 1932, **54**, 2452.

Org. Synth., *Coll. Vol.*, 2, 1943, 522.

Dean, F.M. et al, *J. Chem. Soc.*, 1953, 1241.

Hikino, H. et al, *Yakugaku Zasshi*, 1969, **89**, 372 (*Pleoside*)

Crow, W.D., *Aust. J. Chem.*, 1976, **29**, 2525.

Nurmukhamedova, M.R. et al, *Khim. Prir. Soedin.*, 1976, **12**, 101;

Chem. Nat. Compd. (Engl. Transl.), 92 (*Hydranoside*)

Nagarajan, G.R. et al, *Indian J. Chem., Sect. B*, 1977, **15**, 955

(*Domesticoside*)

Nagarajan, G.R. et al, *Phytochemistry*, 1977, **16**, 614 (*derivs*)

de Pascual-Teresa, J. et al, *Phytochemistry*, 1982, **21**, 791 (*deriv*)

Tiwari, H.P. et al, *Indian J. Chem., Sect. B*, 1988, **27**, 863

(*Cassioside*, *Marginoside*)

Bukreeva, T.V. et al, *Khim. Prir. Soedin.*, 1991, **27**, 722; *Chem.*

Nat. Compd. (Engl. Transl.), 638 (*Echisioside*)

Satake, T. et al, *Phytochemistry*, 1991, **30**, 4191 (*4'-Me ether*

rutinoside)

Chou, C.J. et al, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 795

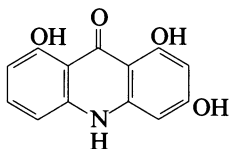
(*Geranyloxydihydroxyacetophenones*)

1,3,8-Trihydroxyacridone

T-10130

Updated Entry replacing T-01939

1,3,8-Trihydroxy-9(10H)-acridinone, 9CI



$C_{13}H_9NO_4$ M 243.218

N-Me: 1,3,8-Trihydroxy-10-methylacridone

$C_{14}H_{11}NO_4$ M 257.245

Alkaloid from aerial parts of *Boronia lanceolata* (Rutaceae). Yellow needles (CHCl₃/MeOH). Mp 285-290°.

O³,N-Di-Me: [94443-43-3]. 1,8-Dihydroxy-3-methoxy-10-methylacridone. **Oligophylidine**

$C_{15}H_{13}NO_4$ M 271.272

Alkaloid from the roots of *Acronychia oligophylebia* (Rutaceae).

Xu, W. et al, *Huaxue Xuebao*, 1984, **42**, 899; *CA*, **102**, 59257s.

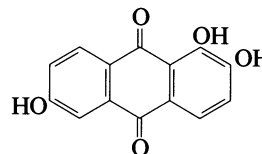
Ahsan, M. et al, *Phytochemistry*, 1993, **33**, 1507 (*1,3,8-Trihydroxy-10-methylacridone*)

1,2,6-Trihydroxyanthraquinone

T-10131

1,2,6-Trihydroxy-9,10-anthracenedione, 9CI. **Flavopurpurin**. 6-Hydroxylizarin

[82-29-1]



$C_{14}H_8O_5$ M 256.214

Yellow needles. Spar. sol. Et₂O. Mp >330°. Bp 459° dec.

Subl. above 160°. Violet soln. in alkali, red to reddish-violet in H₂SO₄.

Tri-Ac:

$C_{20}H_{14}O_8$ M 382.326

Mp 202-203°.

2-Me ether: [142878-32-8]. 1,6-Dihydroxy-2-methoxyanthraquinone

$C_{15}H_{10}O_5$ M 270.241

Constit. of the roots of *Damnanthus indicus* and *Morinda officinalis*.

Tri-Me ether: 1,2,6-Trimethoxyanthraquinone

$C_{17}H_{14}O_5$ M 298.295

Yellow needles. Mp 225-226°.

Liebermann, C. et al, *Ber.*, 1888, **21**, 1171.

Bistrzycki, A. et al, *Ber.*, 1898, **31**, 2790.

Graebe, C. et al, *Justus Liebigs Ann. Chem.*, 1906, **349**, 207.

Frobenius, O. et al, *Ber.*, 1907, **40**, 1048.

Bloom, H. et al, *J. Chem. Soc.*, 1959, 178 (ir)

Yang, Y.J. et al, *Yaoxue Xuebao*, 1992, **27**, 358; *CA*, **117**, 86794

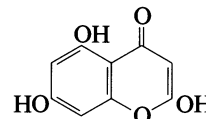
(*isol, deriv*)

2,5,7-Trihydroxy-4H-1-benzopyran-4-one

T-10132

2,5,7-Trihydroxychromone

[68499-13-8]



$C_9H_6O_5$ M 194.143

2-O-(4-Hydroxyphenyl): [61854-36-2]. 5,7-Dihydroxy-2-(4-hydroxyphenoxy)-4H-1-benzopyran-4-one. 5,7-Dihydroxy-

2-(4-hydroxyphenoxy)chromone. **Demethoxycapillarisin**

$C_{15}H_{10}O_6$ M 286.240

Phytoalexin isol. from *Cassia obtusifolia* inoculated with

Alternaria cassiae. Also isol. from *Artemisia capillaris*.

Vasodilator and chloretic.

2-O-(4-Methoxyphenyl): [61854-35-1]. 5,7-Dihydroxy-2-(4-methoxyphenoxy)-4H-1-benzopyran-4-one

$C_{16}H_{12}O_6$ M 300.267

Isol. from *Artemisia capillaris*.

Komiya, T. et al, *Yakugaku Zasshi*, 1976, **96**, 855 (*isol*)

Okutani, T. et al, *Heterocycles*, 1977, **6**, 1581 (*synth*)

Takeno, H. et al, *J. Chem. Soc., Chem. Commun.*, 1981, 474

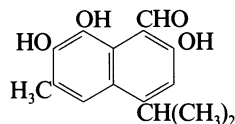
(*synth*)

Sharon, A. et al, *Plant Physiol.*, 1992, **98**, 303 (*isol*)

2,3,9-Trihydroxy-14-cadalenal

2,7,8-Trihydroxy-4-isopropyl-6-methyl-1-naphthalenecarboxaldehyde

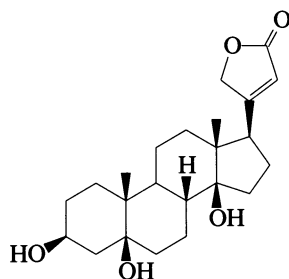
[54835-63-1]

C₁₅H₁₆O₄ M 260.289

7-Me ether: [60089-74-9]. 2,8-Dihydroxy-4-isopropyl-7-methoxy-6-methyl-1-naphthalenecarboxaldehyde.

GossyvertinC₁₆H₁₈O₄ M 274.316Isol. from the stems of cotton plants (*Gossypium* sp.) infected with *Verticillium dahliae*. Phytoalexin. Mp 147-149°. Revised struct.Karimdzhanov, A.K. et al. *Khim. Prir. Soedin.*, 1976, **12**, 238; *Chem. Nat. Compd. (Engl. Transl.)*, 211 (isol, pmr, ms, uv)**3,5,14-Trihydroxycard-20(22)-enolide**

Updated Entry replacing T-01993

C₂₃H₃₄O₅ M 390.519**(3β,5β,14β)-form [514-39-6] Periplogenin**Isol. from seeds of *Strophanthus preussii*, from *Castilla elastica*, *Pentopetia androsaernifolia*, *Antiaris toxicaria* and others. Cryst. (MeOH aq.). Mp 238° (sinters at 140°). [α]_D²⁵ +27° (c, 0.667 in CHCl₃).▷ Toxic. LD₅₀ 0.72 mg/Kg (cat). FH5387000.

3-Ac: [13077-88-8].

C₂₅H₃₆O₆ M 432.556Constit. of Chinese drug "Wujiapi". Cryst. (EtOAc). Mp 228°. [α]_D^{25.5} +49.9° (c, 1.22 in CHCl₃).3-O-[β-D-Glucopyranosyl(1→4)-2,6-dideoxy-3-O-methyl-β-D-ribo-hexopyranoside]: [13137-64-9]. **Periplocin**.

Periplocoside

C₃₆H₅₆O₁₃ M 696.831Constit. of *Periploca graeca* and *S. preussii*. Cryst. (H₂O). Mp 209° dec. [α]_D²⁰ +22.9° (MeOH).▷ Highly toxic. LD₅₀ 0.12 mg/Kg (cat).3-O-(2,6-Dideoxy-3-O-methyl-β-D-ribo-hexopyranoside): [32476-67-8]. **Periplocymarin**C₃₀H₄₆O₈ M 534.689Constit. of *Strophanthus* spp., *P. spp.*, *C. elastica* and others. Cryst. (MeOH aq.). Mp 145°. [α]_D²⁰ +29° (MeOH). A higher-melting form, Mp 212° (from MeOH) has also been reported.▷ Highly toxic. LD₅₀ 0.154 mg/Kg (cat).3-O-Digitaloside: **Emicymarin**. e-*Strophanthin*C₃₀H₄₆O₉ M 550.688Constit. of many *S. sp.* Cryst. (MeOH/Et₂O). Mp 160-163°. [α]_D¹⁸ +13.5° (c, 1.112 in MeOH).**T-10133**3-O-[2,6-Dideoxy-β-D-ribo-hexopyranosyl(1→4)-2,6-dideoxy-3-O-methyl-β-D-ribo-hexopyranoside]: **Periplogenin digitoxosocymaroside**C₃₆H₅₆O₁₁ M 664.832Isol. from wood of *Gongronema gazense*. Platelets (Me₂CO aq.). Mp 150-153°. [α]_D²³ +31.5° (c, 0.78 in MeOH).3-O-α-L-Rhamnopyranoside: [1064-16-0]. **Periplorhamnoside**C₂₉H₄₄O₉ M 536.661Isol. from seeds of *Antiaris toxicaria*. Granules (MeOH/Et₂O). Mp 169-174°, Mp 220-227° (double Mp).3-O-(2,3-Di-O-methyl-β-D-fucoside): **Kamaloside**C₃₁H₄₈O₉ M 564.715Isol. from *Streblus asper*. Cryst. (MeOH/Et₂O). Mp 174-178°. [α]_D²⁸ +10.6° (c, 0.63 in MeOH).3-O-[β-D-Glucopyranosyl(1→4)-2,3-di-O-methyl-β-D-fucopyranoside]: **Glucokamaloside**C₃₇H₅₈O₁₄ M 726.857Isol. from fruit rind of *S. asper*. Granules (MeOH/Et₂O). Mp 258-262°. [α]_D²⁴ -4.8° (c, 1.005 in MeOH).3-O-D-Digitoxoside: **Periplogenin digitoxoside**C₂₉H₄₄O₈ M 520.662Isol. from *Strophanthus ledienii*. Needles (MeOH/Et₂O). Mp 145-156°. [α]_D²⁶ +27.2° (CHCl₃). Prob. struct.3-O-D-Diginoside: **Vanderoside**C₃₀H₄₆O₈ M 534.689Isol. from seeds of *S. vanderijstii*. Platelets (MeOH/Et₂O). Mp 217-222°. [α]_D²⁷ +7.8° (CHCl₃).D-Fucoside (?): **Ledienoside**Isol. from seeds of *S. ledienii* and *S. eminii*. Needles (MeOH/Et₂O). Mp 169-175°. [α]_D²³ +5.2° (MeOH). Struct. uncertain.Glycoside: **Emicin**C₃₆H₅₆O₁₄ M 712.830Isol. from seeds of *S. preussii*. Rosettes (MeOH). [α]_D¹⁸ +14.7° (MeOH). Gives periplogenin, 1-Glu and 1-Digitalose on hydrol.3-O-[6-Deoxy-β-D-glucopyranosyl-(1→4)-α-D-digitalopyranoside]: **Oxystelmine**C₃₆H₅₆O₁₃ M 696.831Constit. of *Oxstelma esculentum*. Cryst. Mp 98-100°.**(3β,5β,14β,17α)-form [4433-58-3] Alloperiplogenin. 17-Isoperiplogenin**Aglycone from Alloemicymarin, also in seeds of *S. preussii*. Cryst. (MeOH). Mp 250° dec. [α]_D¹⁵ +41° (MeOH).

3-O-(2,6-Dideoxy-3-O-methyl-β-D-ribohexopyranoside):

C₃₀H₄₆O₈ M 534.689Constit. of *Strophanthus kombe* and *S. eminii*. Cryst. + 2H₂O (MeOH/Et₂O). Mp 130-134°. [α]_D¹⁶ +48.3° (MeOH).3-Digitaloside: **Alloemicymarin. 17-Isoemicymarin**C₃₀H₄₆O₉ M 550.688Constit. of *S. kombe* and *S. eminii*. Cryst. (EtOAc). Mp 160-162° and 260-265° (double Mp). [α]_D¹⁶ +28.7° (MeOH).3-Cymaroside: **Alloperiplocymarin. 17-Isoperiplocymarin**C₃₀H₄₆O₈ M 534.689From *S. kombe* and *S. eminii*. Cryst. + 2H₂O (MeOH/Et₂O). Mp 130-134°. [α]_D¹⁶ +48.3° (MeOH).**(3α,5β,14β)-form [71884-72-5]**3-epi-Periplogenin. **Epiperiplogenin**C₂₃H₃₄O₅ M 390.519Constit. of *Adonis vernalis*. Cryst. (CHCl₃/MeOH). Mp 211-214°.Katz, A. et al, *Helv. Chim. Acta*, 1945, **28**, 476 (*Alloperiplogenin*)

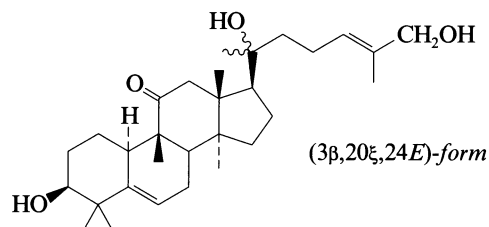
- Speiser, P. *et al*, *Experientia*, 1947, **3**, 323 (*isol*)
 Speiser, P. *et al*, *Helv. Chim. Acta*, 1948, **31**, 622 (*struct*)
 von Euw, J. *et al*, *Helv. Chim. Acta*, 1948, **31**, 883 (*Emicymarin*)
 Ruppel, E. *et al*, *J. Pharm. Belg.*, 1955, **10**, 221; 1956, **12**, 291; *CA*,
50, 12089; **52**, 4104 (*Emicin*)
 Lichti, H. *et al*, *Helv. Chim. Acta*, 1956, **39**, 1914 (*Ledienoside*,
Periplogenin digitoxoside)
 Zelnik, R. *et al*, *Helv. Chim. Acta*, 1957, **40**, 2110.
 Reichstein, T. *et al*, *Helv. Chim. Acta*, 1962, **45**, 1515, 1534; 1964,
47, 2303, 2320 (*Kamaloside*, *Glucokamaloside*)
 Lewbart, M.L. *et al*, *Helv. Chim. Acta*, 1963, **46**, 505, 517
 (*Digitoxosocymaroside*)
 Deghenghi, R. *et al*, *Tetrahedron Lett.*, 1963, 2045 (*synth*)
 Mühlradt, P. *et al*, *Helv. Chim. Acta*, 1964, **47**, 2164
 (*Periplorhamoside*)
 Shoji, J. *et al*, *Chem. Pharm. Bull.*, 1967, **15**, 720 (*isol*)
 Sauer, H.H. *et al*, *Phytochemistry*, 1968, **7**, 1543 (*biosynth*)
 Kamano, Y. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1975, 1976
 (*synth*)
 Junior, P. *et al*, *Phytochemistry*, 1980, **19**, 2193 (*Epiperiplogenin*)
 Srivastava, S. *et al*, *Phytochemistry*, 1993, **32**, 1019 (*Oxystelmine*)

3,6,20-Trihydroxycholest-9(11)-en-23-one T-10135

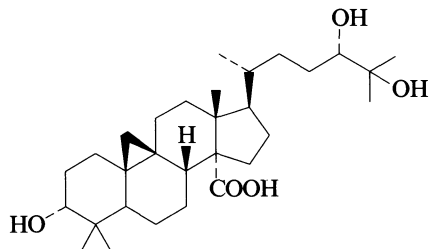
Updated Entry replacing T-02021

C₂₇H₄₄O₄ M 432.642**(3β,5α,6α,20S)-form** [55897-77-3] *Thornasterol A*
 Constit. of *Acanthaster planci*.3,6-Di-Ac: Cryst. (hexane). Mp 158.5-159.5°. [α]_D¹⁵ +23° (c,
 0.1 in MeOH).6-O-[β-D-Fucopyranosyl-(1→2)-β-D-galactopyranosyl-(1→4)-
 [β-D-quinovopyranosyl-(1→2)]-β-D-xylopyranosyl-(1→3)-β-
 D-quinovopyranoside], 3-sulfate: [67849-63-2].**Thornasteroside A**C₅₆H₉₂O₂₈S M 1245.392From *A. planci*. Cryst. (butanol)(as Na salt). Mp 203-
 204°. [α]_D²⁵ -7° (c, 0.5 in H₂O).3-O-Sulfate, 6-O-[6-deoxy-β-D-glucopyranosyl-(1→2)[β-D-
 galactopyranosyl-(1→3)-6-deoxy-β-D-galactopyranosyl-
 (1→2)-β-D-galactopyranosyl-(1→4)]-β-D-xylopyranosyl-
 (1→3)-6-deoxy-β-D-glucopyranoside]: [88434-20-2].**Forbeside A. Versicoside A**C₆₂H₁₀₂O₃₃S M 1407.534Isol. from the starfish *Asterias amurensis* ssp. *versicolor*
 and *A. forbesi*. Needles (MeOH aq.) (as Na salt). Mp
 200-203° (198.5-200°) (Na salt). [α]_D -1.7° (c, 0.42 in
 H₂O).3-O-Sulfate, 6-O-[6-deoxy-β-D-glucopyranosyl-(1→2)[6-
 deoxy-β-D-glucopyranosyl-(1→2)-β-D-galactopyranosyl-
 (1→4)]-β-D-xylopyranosyl-(1→3)-6-deoxy-β-D-
 glucopyranoside]: [110660-85-0]. **Forbeside B**C₅₆H₉₂O₂₈S M 1245.392Isol. from *A. amurensis* and *A. forbesi*. Glassy foam (as
 Na salt). Mp 206-208° (Na salt). [α]_D²⁸ -2.8° (c, 0.009 in
 H₂O).3-O-Sulfate, 6-O-[6-deoxy-β-D-galactopyranosyl-(1→2)-6-
 deoxy-β-D-galactopyranosyl-(1→4)[6-deoxy-β-D-
 glucopyranosyl-(1→2)]-6-deoxy-β-D-glucopyranosyl-
 (1→3)-6-deoxy-β-D-xylo-hexopyranosid-4-uloside]: [95481-
 80-4]. **Forbeside C**C₅₇H₉₂O₂₇S M 1241.404Isol. from *A. forbesi*. Glassy solid (as Na salt). Mp 180-
 182° (Na salt).3-O-Sulfate, 6-O-[6-deoxy-β-D-galactopyranosyl-(1→4)[6-
 deoxy-β-D-glucopyranosyl-(1→2)]6-deoxy-β-D-
 glucopyranosyl-(1→3)-6-deoxy-β-D-xylo-hexopyranosid-4-
 uloside]: [130014-50-5]. **Forbeside F**C₅₁H₈₂O₂₃S M 1095.261Isol. from *A. forbesi*. Powder (as Na salt). Mp 208° (Na
 salt). [α]_D²⁰ +11.6° (c, 0.01 in H₂O).3-O-Sulfate, 6-O-[6-deoxy-β-D-glucopyranosyl-(1→2)-6-
 deoxy-β-D-glucopyranosyl-(1→3)-6-deoxy-β-D-xylo-
 hexopyranosid-4-uloside]: [130014-51-6]. **Forbeside G**
 C₄₈H₇₂O₁₉S M 949.118Isol. from *A. forbesi*. Powder (as Na salt). Mp 194° (Na
 salt). [α]_D²⁰ -4.7° (c, 0.01 in H₂O).3-O-Sulfate, 6-O-[6-deoxy-β-D-glucopyranosyl-(1→2)-β-D-
 xylopyranosyl-(1→3)-6-deoxy-β-D-glucopyranoside]:
 [130062-45-2]. **Forbeside H**C₄₄H₇₂O₁₉S M 937.107Isol. from *A. forbesi*. Powder (as Na salt). Mp 188° (Na
 salt). [α]_D²⁰ -4.7° (c, 0.01 in H₂O).

[115225-96-2]

Kitagawa, I. *et al*, *Chem. Pharm. Bull.*, 1978, **26**, 1852, 1864 (*isol*)
 Itakura, Y. *et al*, *Justus Liebigs Ann. Chem.*, 1983, 2079 (*Forbeside*
A)Honda, M. *et al*, *Tetrahedron Lett.*, 1986, **27**, 3369 (*struct, synth*)Findlay, J.A. *et al*, *Can. J. Chem.*, 1987, **65**, 1384, 2605; 1990, **68**,
 1215 (*Forbesides*)Riccio, R. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1988, 1337
 (*Forbeside B*)**3,20,26-Trihydroxycucurbita-5,24-dien-11-one, 9CI T-10136**C₃₀H₄₈O₄ M 472.707**(3β,20ξ,24E)-form** [114653-43-9]**Scandenogenin A**Powder. [α]_D²² +125.7° (c, 0.35 in MeOH).3-O-β-D-Glucopyranoside: [114637-76-2]. **Scandenoside R₁**C₃₆H₅₈O₉ M 634.849Constit. of the rhizomes of *Hemsleya panacis-scandens*.
 Powder + 1H₂O. [α]_D²⁴ +83.8° (c, 0.68 in MeOH).3,26-Di-O-β-D-glucopyranoside: [114637-77-3]. **Scandenoside**
R₃C₄₂H₆₈O₁₄ M 796.991Constit. of the rhizomes of *H. panacis-scandens*. Powder
 + 1½ H₂O. [α]_D²⁴ +48° (c, 0.97 in MeOH).**(3β,20ξ,24Z)-form****Scandenogenin B**Needles (EtOAc/hexane). Mp 148-149°. [α]_D²² +137.8°
 (c, 0.45 in MeOH).3-O-β-D-Glucopyranoside: [114715-44-5]. **Scandenoside R₂**C₃₆H₅₈O₉ M 634.849Constit. of the rhizomes of *H. panacis-scandens*. Powder
 + 1H₂O. [α]_D²⁴ +86.0° (c, 0.8 in MeOH).3,26-Di-O-β-D-glucopyranoside: [114715-45-6]. **Scandenoside**
R₄C₄₂H₆₈O₁₄ M 796.991Constit. of the rhizomes of *H. panacis-scandens*. Powder
 + 1½ H₂O. [α]_D²⁴ +69.7° (c, 0.75 in MeOH).Kasai, R. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 234.

3,24,25-Trihydroxycycloartan-30-oic acid T-10137



$C_{30}H_{50}O_5$ M 490.722

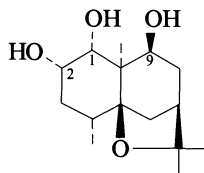
(3α,24R)-form [12708-28-0] *Protolyofoligenic acid*

Constit. of *Lyonia ovalifolia* and *Notholaena schaffneri*.

Arriaga-Giner, F.J. *et al.*, *Z. Naturforsch.*, C, 1992, **47**, 508 (isol, pmr, cmr)

1,2,9-Trihydroxydihydro-β-agarofuran T-10138

Updated Entry replacing T-02052



$C_{15}H_{26}O_4$ M 270.368

(1α,2α,9β)-form [59812-47-4] *Isocelorbicolic*

Parent alcohol from esters isol. from the seed oil of *Celastrus orbiculatus*. Cryst. ($CHCl_3/Me_2CO$). Mp 240-241°. $[\alpha]_D^{26} - 8^\circ$ (c, 0.3 in $CHCl_3$).

1-E-Cinnamoyl, 2,9-di-Ac: [59812-48-5].

$C_{28}H_{36}O_7$ M 484.588

Constit. of *C. orbiculatus*. Amorph. solid.

9-(2,3-Epoxydihydrocinnamoyl), 1,2-di-Ac: [130926-66-8].

$C_{28}H_{36}O_8$ M 500.588

Isol. from *C. gemmatus*. Cryst. (MeOH). Mp 173-174°. $[\alpha]_D^{14} - 7.87^\circ$ (c, 0.508 in $CHCl_3$). Defectively named, shown in nonstandard orientation and descr. as (1β,2β,9α).

9-(2,3-Epoxydihydrocinnamoyl), 2-benzoyl, 1-Ac: [130926-67-9].

$C_{33}H_{38}O_8$ M 562.658

Isol. from *C. gemmatus*. Amorph. powder. $[\alpha]_D^{14} + 45.37^\circ$ ($CHCl_3$). Defectively named.

9-(2,3-Epoxydihydrocinnamoyl), 2-butanoyl, 1-Ac: [131213-10-0].

$C_{30}H_{40}O_8$ M 528.641

Isol. from *C. gemmatus*. Amorph. powder.

2-(2-Methylbutanoyl), 9-benzoyl, 1-Ac: [137740-06-8].

Triptogelin E1

$C_{29}H_{40}O_7$ M 500.631

Constit. of *Tripterygium wilfordii*. Amorph. powder. $[\alpha]_D^{23} + 84.5^\circ$ (c, 1 in MeOH).

9-Benzoyl, 1,2-di-Ac: [137740-07-9]. **Triptogelin E2**

$C_{26}H_{34}O_7$ M 458.550

Constit. of *T. wilfordii*. Needles. Mp 113-115°. $[\alpha]_D^{27} + 31.7^\circ$ (c, 1 in MeOH).

9-E-Cinnamoyl, 2-(2-methylbutanoyl), 1-Ac: [137740-08-0].

Triptogelin E3

$C_{31}H_{42}O_7$ M 526.669

Constit. of *T. wilfordii*. Amorph. powder. $[\alpha]_D^{23} + 155.9^\circ$ (c, 1.03 in MeOH).

2-Ketone, 1-Ac, 9-benzoyl: [137740-09-1]. **Triptogelin E4**

$C_{24}H_{30}O_6$ M 414.497

Constit. of *T. wilfordii*. Needles. Mp 201-203°.

9-Benzoyl, 2-butanoyl, 1-Ac: [145940-82-5]. **Triptogelin E5**

$C_{28}H_{38}O_7$ M 486.604

Constit. of *T. wilfordii*. Amorph. powder. $[\alpha]_D^{23} + 66.7^\circ$ (c, 0.3 in $CHCl_3$).

9-Benzoyl, 2-(2-Methylpropanoyl), 1-Ac: [145940-83-6].

Triptogelin E6

$C_{28}H_{38}O_7$ M 486.604

Constit. of *T. wilfordii*. Amorph. powder. $[\alpha]_D^{23} + 41.4^\circ$ (c, 0.3 in $CHCl_3$).

9-Cinnamoyl, 2-butanoyl, 1-Ac: [145940-84-7]. **Triptogelin E7**

$C_{30}H_{40}O_7$ M 512.642

Constit. of *T. wilfordii*. Amorph. powder. $[\alpha]_D^{23} + 112.9^\circ$ (c, 0.3 in $CHCl_3$).

9-Cinnamoyl, 2-(2-Methylpropanoyl), 1-Ac: [145940-85-8].

Triptogelin E8

$C_{30}H_{40}O_7$ M 512.642

Constit. of *T. wilfordii*. Amorph. powder.

9-E-Cinnamoyl, 2-benzoyl, 1-Ac: **Celafofin B3**

$C_{33}H_{38}O_7$ M 546.659

Constit. of *C. stephanotiifolius*. Amorph. powder. $[\alpha]_D^{20} + 232.6^\circ$ (c, 0.33 in MeOH).

9-E-Cinnamoyl, 1-Ac: **Celafofin B1**

$C_{26}H_{34}O_6$ M 442.551

Constit. of *C. stephanotiifolius*. Amorph. powder. $[\alpha]_D^{20} + 97.5^\circ$ (c, 1 in MeOH).

9-E-Cinnamoyl, 2-Ac: **Celafofin B2**

$C_{26}H_{34}O_6$ M 442.551

Constit. of *C. stephanotiifolius*. Amorph. powder. $[\alpha]_D^{20} + 68.9^\circ$ (c, 0.46 in MeOH).

Smith, C.R. *et al.*, *J. Org. Chem.*, 1976, **41**, 3264 (isol)

Huffman, J.W. *et al.*, *Tetrahedron*, 1987, **43**, 5557 (synth)

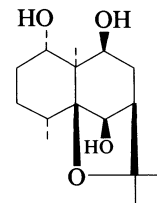
Yongqiang, T. *et al.*, *Phytochemistry*, 1990, **29**, 2924 (isol)

Takaishi, Y. *et al.*, *Phytochemistry*, 1991, **30**, 3027; 1992, **30**, 3027 (*Triptogelins*)

Takaishi, Y. *et al.*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 815 (*Celafofins*)

1,6,9-Trihydroxydihydro-β-agarofuran T-10139

Updated Entry replacing T-02054



$C_{15}H_{26}O_4$ M 270.368

(1α,6β,9β)-form [59812-41-8] *Celorbicolic*

$C_{15}H_{26}O_4$ M 270.368

Parent alcohol of esters from the seed oil of *Celastrus orbiculatus*. Cryst. ($CHCl_3/Me_2CO$). Mp 222-223°. $[\alpha]_D^{26} - 24^\circ$ (c, 0.5 in $CHCl_3$).

6-(3-Pyridinecarbonyl), 9-benzoyl, 1-Ac: [145940-86-9].

Triptogelin F1

$C_{30}H_{35}NO_7$ M 521.609

Constit. of *Tripterygium wilfordii*. Needles. Mp 193-195°. $[\alpha]_D^{23} + 67.7^\circ$ (c, 0.4 in MeOH).

9-Cinnamoyl, 1,6-di-Ac: [145940-87-0]. **Triptogelin F2**

$C_{28}H_{36}O_7$ M 484.588

Constit. of *T. wilfordii*. Amorph. powder. $[\alpha]_D^{23} + 23.3^\circ$ (c, 0.3 in MeOH).

9-Benzoyl, 1,6-Di-Ac:

$C_{26}H_{34}O_7$ M 458.550

Constit. of *C. orbiculatus* and *C. stephanotiifolius*. Amorph. powder.

6,9-Dibenzoyl, 1-Ac:

$C_{31}H_{36}O_7$ M 520.621

Constit. of *C. orbiculatus* and *C. stephanotiifolius*.
Amorph. powder.

9-Benzoyl, 6-cinnamoyl, 1-Ac: **Celafofin A1**

$C_{33}H_{38}O_7$ M 546.659

Constit. of *C. stephanotiifolius*. $[\alpha]_D^{20} + 23.2^\circ$ (c, 0.43 in MeOH).

Smith, C.R. et al, *J. Org. Chem.*, 1976, **41**, 3264.

Takaishi, Y. et al, *Phytochemistry*, 1992, **31**, 3943 (*Triptogelins*)

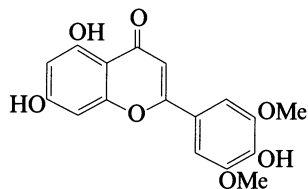
Takaishi, Y. et al, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 815 (*derivs. pmr, cmr*)

4',5,7-Trihydroxy-3',5'-dimethoxyflavone T-10140

Updated Entry replacing T-02065

5,7-Dihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-4H-1-benzopyran-4-one, 9CI. *Tricetin 3',5'-dimethyl ether. Tricin. Phelipeone. Phoeipeone*

[520-32-1]



$C_{17}H_{14}O_7$ M 330.293

Constit. of *Aechmea*, *Billbergia*, *Veronica* and Gramineae spp. Widespread in the Cyperaceae. Yellow needles (AcOH aq.). Mp 291-292°.

5-O- β -D-Glucopyranoside:

$C_{23}H_{24}O_{12}$ M 492.435

Isol. from leaves of *Triticum* spp., *Cirsium* spp. and others.

7-O- β -D-Glucopyranoside: [32769-01-0]. **Glucotricin**

$C_{23}H_{24}O_{12}$ M 492.435

Isol. from rice (*Oryza sativa*), *Lycopodium scariosum* and others. Light-yellow powder (butanol/Et₂O); cryst. + 2H₂O (MeOH aq.). Mp 260.5-261° (dihydrate), Mp 240-241° (anhyd.).

7-O-Rutinoside:

$C_{29}H_{34}O_{16}$ M 638.578

Constit. of leaves of *Chamaerops humilis*. Pale-yellow needles (EtOH). Mp 192-196°. $[\alpha]_D^{20} - 93.7^\circ$ (c, 1.00 in Py).

7-O-Rhamnosylglucoside:

$C_{29}H_{34}O_{16}$ M 638.578

From leaves of *O. sativa*. Yellow powder.

7-O- β -D-Glucuronoside:

$C_{23}H_{22}O_{13}$ M 506.419

Isol. from alfalfa (*Medicago sativa*) and *Stipa lemmonii*.

7-O-(Rhamnosylglucuronoside):

$C_{29}H_{32}O_{17}$ M 652.562

Isol. from *Marchantia foliacea*.

4'-O-Glucopyranoside, 7-O-rutinoside: [58795-16-7].

$C_{35}H_{44}O_{21}$ M 800.720

Isol. from *Hyacinthus orientalis*.

5,7-Di-O- β -D-glucopyranoside: [74336-88-2].

$C_{29}H_{34}O_{17}$ M 654.577

Isol. from *Lycopodium scariosum*.

7-O-(D-Fructosyl-D-glucoside): [58798-49-5].

$C_{29}H_{34}O_{17}$ M 654.577

Isol. from *H. orientalis*.

7-O-Diglucuronoside: [83097-44-3].

$C_{29}H_{30}O_{19}$ M 682.545

Isol. from *Medicago sativa*.

7-O-[α -L-Rhamnosyl-(1 \rightarrow 2)- α -D-galacturonoside]: [89915-54-8].

$C_{29}H_{32}O_{17}$ M 652.562

Isol. from *Saccharum* spp.

5-O-Diglucoside:

$C_{29}H_{34}O_{17}$ M 654.577

Isol. from *Triticum dicoccum*.

7-O-Diglucoside: [50867-30-6].

$C_{29}H_{34}O_{17}$ M 654.577

Isol. from *Saccharum officinarum*.

7-O-Neohesperidoside: [53766-40-8].

$C_{29}H_{34}O_{16}$ M 638.578

Isol. from *S. officinarum*.

4'-O- β -D-Glucopyranoside: [71855-50-0].

$C_{23}H_{24}O_{12}$ M 492.435

Isol. from *Lycopodium scariosum*.

7-O-(Sulfooxy- β -D-glucopyranoside):

$C_{23}H_{24}O_{15}S$ M 572.500

Isol. from *S. officinarum*.

7-O-(Sulfooxy- β -D-glucuronoside): [88849-98-3].

$C_{23}H_{22}O_{16}S$ M 586.483

Isol. from *Cyperus polystachyos*.

7-O-(Disulfooxy- β -D-glucuronoside):

$C_{23}H_{22}O_{19}S_2$ M 666.547

Isol. from *C. polystachyos*.

7-O-Triglucuronoside: [83097-23-8].

$C_{35}H_{38}O_{25}$ M 858.670

Isol. from *Medicago sativa*.

7-O- β -L-Arabinopyranoside: [126394-59-0]. **Setaricin**

$C_{22}H_{22}O_{11}$ M 462.409

Constit. of the leaves of *Setaria italica*. Shining yellow needles (MeOH). Mp > 300°. Incorrect anomer given in CA.

Gulati, K.L. et al, *J. Chem. Soc.*, 1933, 942, 1644 (*synth*)

Harborne, J.B. et al, *Phytochemistry*, 1964, **3**, 421 (5-glucoside, glucuronide)

Minamikawa, T. et al, *Agric. Biol. Chem.*, 1965, **29**, 428 (*Glucotricin*)

Owada, E. et al, *Nippon Kagaku Zasshi*, 1970, **91**, 1002; *CA*, **74**, 76265 (*synth*)

Kaneta, M. et al, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 528 (*isol*)

Markham, K.R. et al, *Phytochemistry*, 1973, **12**, 2007 (7-rhamnosylglucuronide)

Williams, C.A. et al, *Phytochemistry*, 1973, **12**, 2417 (*occur*)

Williams, C.A. et al, *Phytochemistry*, 1974, **13**, 1141 (7-neohesperidoside)

Desai, H.K. et al, *Indian J. Chem., Sect. B*, 1976, **14**, 473 (*isol*)

Bhattacharyya, J. et al, *J. Pharm. Sci.*, 1978, **67**, 1325 (*isol, cmr*)

Saleh, N.A.M. et al, *Biochem. Syst. Ecol.*, 1982, **10**, 33 (7-triglucuronoside)

Liu, Y.-L. et al, *Phytochemistry*, 1982, **21**, 209 (*isol*)

Harborne, J.B. et al, *Phytochemistry*, 1982, **21**, 2491 (*glucuronoside sulfates*)

Voirin, B., *Phytochemistry*, 1983, **22**, 2107 (*w*)

Mabry, T.J. et al, *J. Nat. Prod. (Lloydia)*, 1984, **47**, 127 (7-rhamnosylgalacturonoside)

Harborne, J.B. et al, *Phytochemistry*, 1985, **24**, 751 (*isol*)

Rofi, R.D. et al, *Phytochemistry*, 1985, **24**, 2131 (*isol*)

Hirai, Y. et al, *Chem. Pharm. Bull.*, 1986, **34**, 82 (*deriv*)

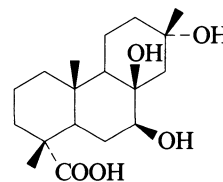
Jain, N. et al, *Chem. Ind. (London)*, 1989, 422 (*Setaricin*)

Rettig, J.H. et al, *Biochem. Syst. Ecol.*, 1990, **18**, 393 (7-xyloside)

Nagarathnam, D. et al, *J. Org. Chem.*, 1991, **56**, 4884 (*synth*)

7,8,13-Trihydroxy-15,16-dinor-18-isopimaranoic acid

T-10141

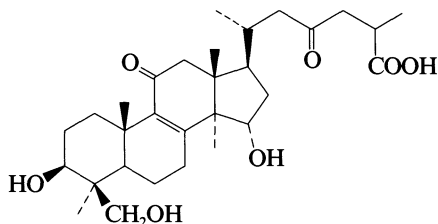


$C_{18}H_{30}O_5$ M 326.432

(7β,8β,13α)-form [150900-96-2]

Constit. of *Vellozia variabilis*. Cryst. (DMF). Mp 262-264°.

Pinto, A.C. *et al*, *Phytochemistry*, 1993, **33**, 1269 (*isol*, *pmr*, *cmr*, *cryst struct*)

3,15,29-Trihydroxy-11,23-dioxolanost-8-en-26-oic acid T-10142

$C_{30}H_{46}O_7$ M 518.689

(3β,15α,25ξ)-form [100440-27-5] **Ganolicidic acid C**

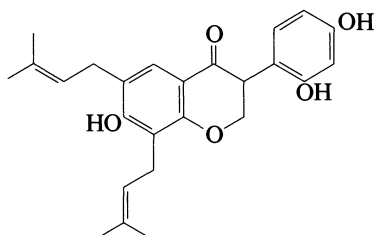
Metab. of *Ganoderma lucidum*.

Nishitoba, T. *et al*, *Agric. Biol. Chem.*, 1985, **49**, 3637 (*isol*, *pmr*, *cmr*)

2',4',7-Trihydroxy-6,8-diprenylisoflavanone T-10143

Bidwillon A

[147742-10-7]



$C_{25}H_{28}O_5$ M 408.493

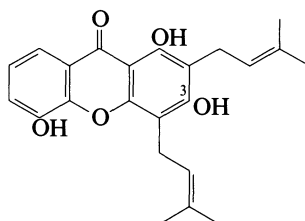
Constit. of the root bark of *Erythrina x bidwilli*. Oil. $[\alpha]_D^{23}$ -35.3° (c, 1.1 in MeOH).

Iinuma, M. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2749 (*isol*, *struct*)

1,3,5-Trihydroxy-2,4-diprenylxanthone T-10144

1,3,5-Trihydroxy-2,4-bis(3-methyl-2-butenyl)-9H-xanthen-9-one. 8-Desoxygartanin

[33390-41-9]



$C_{23}H_{24}O_5$ M 380.440

Isol. from *Garcinia mangostana*. Yellow needles (C_6H_6 /hexane). Mp 165.5°.

3-Me ether: [130774-35-5]. **1,5-Dihydroxy-3-methoxy-2,4-diprenylxanthone**

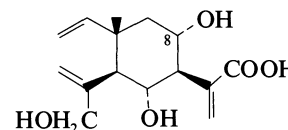
$C_{24}H_{26}O_5$ M 394.466

Constit. of *Cudrania tricuspidata*. Yellow prisms (hexane). Mp 129-131°.

Govindachari, T.R. *et al*, *Tetrahedron*, 1971, **27**, 3919.
Hano, Y. *et al*, *Planta Med.*, 1990, **56**, 399 (*deriv*)

6,8,15-Trihydroxy-1,3,11(13)-elematrien-12-oic acid T-10145

Updated Entry replacing T-02114



$C_{15}H_{22}O_5$ M 282.336

(6α,8α)-form

Me ester:

$C_{16}H_{24}O_5$ M 296.363

Constit. of *Centaurea aspera*. Gum. $[\alpha]_D^{23}$ -15° (c, 0.4 in $CHCl_3$).

8-O-(2-Hydroxymethylpropenoyl), Me ester: [105242-48-6].

Elemacaranin

$C_{20}H_{28}O_7$ M 380.437

Constit. of *Onopordon carmanicum*. Oil.

8-(2,3-Epoxy-2-hydroxymethylpropanoyl), Me ester: **17,18-Epoxyelemacaranin**

$C_{20}H_{28}O_8$ M 396.436

Constit. of *O. acaulon*.

8-(3-Hydroxy-2R-methylpropanoyl), Me ester: **17R,18-Dihydroelemacaranin**

$C_{20}H_{30}O_7$ M 382.453

Constit. of *O. acaulon*. Viscous gum.

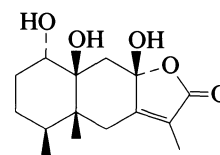
8-(3-Hydroxy-2S-methylpropanoyl), Me ester:

$C_{20}H_{30}O_7$ M 382.453

Constit. of *O. acaulon* and *O. ambiguum*. Viscous gum.

Rustaiyan, A. *et al*, *Phytochemistry*, 1986, **25**, 1659.

Cardona, L. *et al*, *Phytochemistry*, 1992, **31**, 3507, 3630; 1993, **33**, 1457 (*isol*, *pmr*, *cmr*, *derivs*)

1,8,10-Trihydroxy-7(11)-eremophilen-12,8-olide T-10146

$C_{15}H_{22}O_5$ M 282.336

(1α,8βOH,10β)-form

1-Angeloyl: [151334-08-6].

$C_{20}H_{28}O_6$ M 364.438

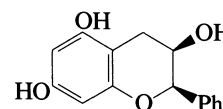
Constit. of *Roldana sessilifolia*. Cryst. (diisopropyl ether/ Me_2CO). Mp 92-94°. $[\alpha]_D^{25}$ +16.1° (c, 0.112 in MeOH).

Delgado, G. *et al*, *Planta Med.*, 1993, **59**, 389 (*isol*, *pmr*, *cmr*)

3,5,7-Trihydroxyflavan T-10147

Updated Entry replacing T-02143

3,4-Dihydro-2-phenyl-2H-1-benzopyran-3,5,7-triol, 9CI



C₁₅H₁₄O₄ M 258.273**(2R,3R)-form** [120693-54-1] **Distenin**

Isol. from the fronds of *Dennstaedtia distenta*. Needles (EtOAc/hexane). Mp 202-203°. [α]_D²⁴ – 61.3° (c, 2 in EtOH).

5,7-Di-Me ether: [120786-77-8]. 3-Hydroxy-5,7-dimethoxyflavan

C₁₇H₁₈O₄ M 286.327Syrup. [α]_D²⁴ – 38.9° (c, 1.42 in CHCl₃).**(2R,3S)-form** [40951-67-5] **3-Oxykoaburagenin**

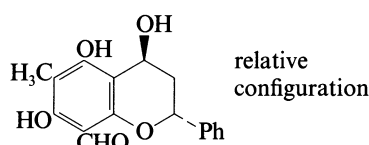
Isol. from the leaves of *Enkianthus nudipes*.

Ogawa, M. *et al*, *Yakugaku Zasshi*, 1972, **92**, 1395 (3-Oxykoaburagenin)

Hori, K. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 4301.

4,5,7-Trihydroxy-8-formyl-6-methylflavan T-10148

3,4-Dihydro-4,5,7-trihydroxy-6-methyl-2H-1-benzopyran-8-carboxaldehyde

C₁₇H₁₆O₅ M 300.310**(2R*,4S*)-form**

5-Me ether: [121230-30-6]. 4,7-Dihydroxy-8-formyl-5-methoxy-6-methylflavan

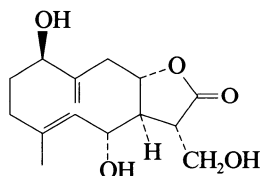
C₁₈H₁₈O₅ M 314.337

Constit. of *Desmos cochinchinensis*. Also isol. from *D. chinensis* (config. not determined).

[142878-31-7]

Liao, S.X. *et al*, *Yaoxue Xuebao*, 1989, **24**, 110; *CA*, **111**, 20870.

Zhao, J., *CA*, 1992, **117**, 86757.

1,6,13-Trihydroxy-4,10(14)-germacradien-12,8-olide T-10149C₁₅H₂₂O₅ M 282.336**(1β,4E,6α,8α,11βH)-form**

13-Me ether: 1,6-Dihydroxy-13-methoxy-4,10(14)-germacradien-12,8-olide. **Chiliophyllin**

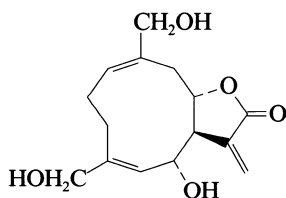
C₁₆H₂₄O₅ M 296.363

Constit. of *Tanacetum chiliophyllum*.

Gören, N. *et al*, *Phytochemistry*, 1993, **34**, 1071 (*isol*, *pmr*, *cmr*)

6,14,15-Trihydroxy-1(10),4,11(13)-germacatrien-12,8-olide T-10150

Updated Entry replacing T-02202

C₁₅H₂₀O₅ M 280.320**(1(10)E,4E,6α,8α)-form**

14-Hydroxy-cis,cis-artemisifolin

6-Tigloyl:

C₂₀H₂₆O₆ M 362.422

Constit. of *Gochnatia discoidea*. Gum.

(1(10)E,4Z,6α,8α)-form

14,15-Di-Ac: 14-Acetoxydicomanolide

C₁₉H₂₄O₇ M 364.394

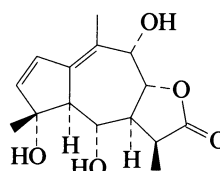
Constit. of *Dicoma anomala*. Oil. [α]_D – 35.3° (c, 2.6 in CHCl₃). Dicomanolide has not been isol.

14-Aldehyde, 15-Ac: [67870-30-8].

C₁₇H₂₀O₆ M 320.341

Constit. of *D. anomala*. [α]_D + 68° (c, 1.9 in CHCl₃) (as acetate).

Bohlmann, F. *et al*, *Phytochemistry*, 1978, **17**, 570; 1981, **20**, 109 (*isol*, *pmr*)

4,6,9-Trihydroxy-1(10),2-guaiadien-12,8-olide T-10151

(4α,5α,6α,8α,9α,11H)-form

C₁₅H₂₀O₅ M 280.320**(4α,5α,6α,8α,9α,11αH)-form**

6,9-Di-Ac: [146018-85-1].

C₁₉H₂₄O₇ M 364.394

Constit. of *Achilles asplenifolia*.

9-Ac, 6-angeloyl: [146018-86-2].

C₂₂H₂₈O₇ M 404.459

Constit. of *A. asplenifolia*.

9-Ac, 6-tigloyl: [146018-84-0].

C₂₂H₂₈O₇ M 404.459

Constit. of *A. asplenifolia*.

(4β,5α,6α,8α,9α,11αH)-form

9-Ac, 6-angeloyl: [146018-83-9].

C₂₂H₂₈O₇ M 404.459

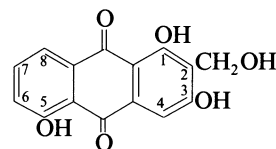
Constit. of *A. asplenifolia*.

Kastner, U. *et al*, *Phytochemistry*, 1992, **31**, 4361 (*isol*, *pmr*, *cmr*, *ms*)

1,3,5-Trihydroxy-2-hydroxymethylanthraquinone T-10152

Updated Entry replacing T-02246

1,3,5-Trihydroxy-2-(hydroxymethyl)-9,10-anthracenedione

C₁₅H₁₀O₆ M 286.240

1-Me ether: [568-78-5]. 3,5-Dihydroxy-2-hydroxymethyl-1-methoxyanthraquinone. **Juzunol**

C₁₆H₁₂O₆ M 300.267

Isol. from roots of *Damnacanthus major*. Orange-brown needles. Mp > 300°.

1-Me ether, 1'-Et ether: [103956-44-1]. 2-(Ethoxymethyl)-

3,5-dihydroxy-1-methoxyanthraquinone

C₁₈H₁₆O₆ M 328.321

Isol. from the roots of *D. subspinosus*.

5-Me ether, 1'-Et ether: [139360-95-5]. 2-(Ethoxymethyl)-1,3-dihydroxy-5-methoxyanthraquinone

$C_{18}H_{16}O_6$ M 328.321

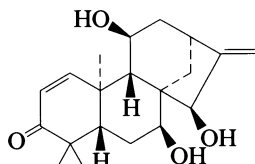
Isol. from the roots of *D. subspinosus*. Incorrectly named as 8-Hydroxysubspinosin before the struct. was revised in 1991.

Hirose, Y. *et al*, *Chem. Pharm. Bull.*, 1960, **8**, 417.

Li, G. *et al*, *Yaoxue Xuebao*, 1986, **21**, 303; *CA*, **105**, 94503 (1-Me-1'-Et ether)

Yu, J. *et al*, *Chin. Chem. Lett.*, 1991, **9**, 365 (5-Me-1'-Et ether)

7,11,15-Trihydroxy-1,16-kauradien-3-one T-10153



$C_{20}H_{28}O_4$ M 332.439

(*ent*-7 α ,11 α ,15 α)-form

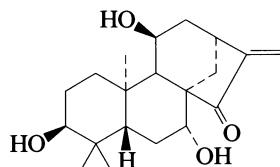
Tri-Ac: **Forrestin G**

$C_{26}H_{34}O_7$ M 458.550

Constit. of *Rabdosia forrestii*. Needles. Mp 204-206°. $[\alpha]_D^{26}$ –69.88° (c, 0.508 in MeOH).

Xu, Y. *et al*, *Phytochemistry*, 1993, **34**, 461 (*isol*, *pmr*, *cmr*)

3,7,11-Trihydroxy-16-kauren-15-one T-10154



$C_{20}H_{30}O_4$ M 334.455

(*ent*-3 α ,7 β ,11 α)-form

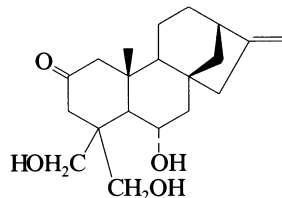
3-Ac: [148225-31-4]. **Inflexarabdonin K**

$C_{22}H_{32}O_5$ M 376.492

Constit. of *Rabdosia inflexa*. Needles. Mp 208-210°. $[\alpha]_D^{26}$ –73.7° (c, 0.57 in MeOH).

Takeda, Y. *et al*, *Phytochemistry*, 1993, **32**, 145 (*isol*, *pmr*, *cmr*)

6,18,19-Trihydroxy-16-kauren-2-one T-10155



$C_{20}H_{30}O_4$ M 334.455

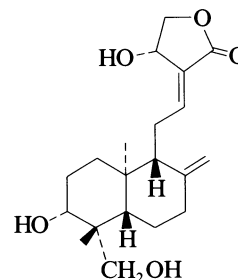
6 β -form

Constit. of *Psiadia arabica*. Needles (MeOH/EtOAc). Mp 210-211°. $[\alpha]_D^{22}$ –153° (c, 0.1 in $CHCl_3$).

El-Domiaty, M.M. *et al*, *Phytochemistry*, 1993, **34**, 467 (*isol*, *pmr*, *cmr*)

3,14,19-Trihydroxy-8(17),12-labdadien-16,15-olide T-10156

Updated Entry replacing T-02313



$C_{20}H_{30}O_5$ M 350.454

(*ent*-3 β ,14*R*)-form [5508-58-7] **Andrographolide**

Constit. of *Andrographis paniculata*. Cryst. (MeOH). Mp 230-231°. $[\alpha]_D^{26}$ –126° (AcOH).

19-O- β -D-Glucopyranoside: [82209-76-5]. **Andrographiside**

$C_{26}H_{40}O_{10}$ M 512.596

Constit. of *A paniculata*.

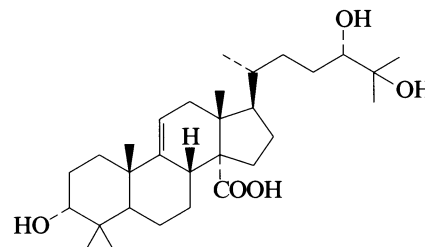
Talukdar, P.B. *et al*, *Indian J. Chem.*, 1968, **6**, 252 (*isol*)

Patra, A. *et al*, *Org. Magn. Reson.*, 1981, **16**, 74; **17**, 301 (*cmr*)

Hu, C. *et al*, *CA*, 1982, **97**, 107055b (*Andrographiside*)

Fujita, T. *et al*, *Chem. Pharm. Bull.*, 1984, **32**, 2117 (*cryst struct*)

3,24,25-Trihydroxylanost-9(11)-en-30-oic acid T-10157



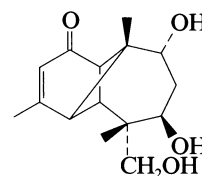
$C_{30}H_{50}O_5$ M 490.722

(3 α ,24*R*)-form [145984-73-2]

Constit. of *Notholaena grayi*. Cryst. (Me_2CO). Mp 198°.

Arriaga-Giner, F.J. *et al*, *Z. Naturforsch., C*, 1992, **47**, 922 (*isol*, *pmr*, *cmr*)

8,10,12-Trihydroxy-3-longipinen-5-one T-10158



$C_{15}H_{22}O_4$ M 266.336

(8 α ,10 β)-form

8,12-Diangeloyl, 10-Ac: [151310-24-6].

$C_{27}H_{36}O_7$ M 472.577

Constit. of *Stevia organoides*. Oil. $[\alpha]_D$ +50° (c, 0.3 in $CHCl_3$).

12-Angeloyl, 8-(3-methyl-2-butenoyl), 10-Ac: [151310-26-8].

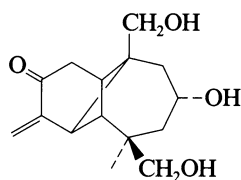
$C_{27}H_{36}O_7$ M 472.577

Constit. of *S. organoides*. Oil. $[\alpha]_D$ +14° (c, 0.05 in $CHCl_3$).

Cerda-García-Rojas, C.M. *et al*, *Phytochemistry*, 1993, **32**, 1219 (*isol*, *pmr*, *cmr*, *cryst struct*)

9,12,14-Trihydroxy-3(15)-longipinen-4-one T-10159

9,11,14-Trihydroxymarsupellone

C₁₅H₂₂O₄ M 266.336**9 α -form**

Tri-Ac:

C₂₁H₂₈O₇ M 392.448Constit. of *Marsupella emarginata*. Oil. [α]_D +45.5° (c, 0.78 in CHCl₃).**9 β -form**

Tri-Ac:

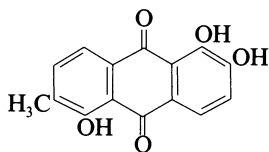
C₂₁H₂₈O₇ M 392.448Constit. of *M. emarginata*. Oil. [α]_D –65.0° (c, 0.89 in CHCl₃).Nagashima, F. et al, *Phytochemistry*, 1993, 33, 1445 (isol, pmr, cmr)**1,2,5-Trihydroxy-6-methylantraquinone,** T-10160
8CI

Updated Entry replacing T-02359

1,2,5-Trihydroxy-6-methyl-9,10-anthracenedione, 9CI.

Morindone

[478-29-5]

C₁₅H₁₀O₅ M 270.241Isol. from *Hymenodictyon excelsum* (roots), *Coprosma australis* (bark) and *Morinda angustifolia* (heartwood and leaves). Also *M. persicaefolia*, *M. umbellata* and *M. tinctoria*. Orange needles. Mp 284°.2-O- β -Primeveroside: [60450-21-7]. **Morindone 6- β -primeveroside.**C₂₆H₂₈O₁₄ M 564.499From *M. spp.* and *C. australis*. Yellow cryst. (EtOH aq.). Mp 257-259°. [α]_D²⁵ –87.3° (c, 0.6 in dioxan).2-O- β -Rutinoside: [1400-38-0]. **Morindone 6- β -rutinoside**C₂₇H₃₀O₁₄ M 578.526Constit. of *Coprosma australis*. Yellow cryst. (AcOH). Mp 264.5° dec. (darkens > 150°). [α]_D –90.9° (c, 0.054 in dioxan).1-Me ether: [64809-71-8]. **1,6-Dihydroxy-5-methoxy-2-methylantraquinone. Morindone 5-methyl ether**C₁₆H₁₂O₅ M 284.268Isol. from *M. lucida*, *Cinchona ledgeriana* and *Plocama pendula*. Orange-brown cryst. Mp 223°.2-Me ether: [63965-45-7]. **1,5-Dihydroxy-2-methoxy-6-methylantraquinone**C₁₆H₁₂O₅ M 284.268Isol. from the stem bark of *Aegle marmelos*. Cryst. (C₆H₆/pet. ether). Mp 252-253° (248°).1,2-Di-Me ether: [95393-76-3]. **1-Hydroxy-5,6-dimethoxy-2-methylantraquinone**C₁₇H₁₄O₅ M 298.295

Mp 238.5-239.5°.

Tri-Me ether: [52541-74-9]. **1,2,5-Trimethoxy-6-methylantraquinone**C₁₈H₁₆O₅ M 312.321Yellow needles (Me₂CO). Mp 237-238°.Jacobson, R.A. et al, *J. Am. Chem. Soc.*, 1925, 47, 283 (synth)Briggs, L.H. et al, *J. Chem. Soc.*, 1963, 3471 (rutinoside)Leistner, E., *Phytochemistry*, 1973, 12, 1669 (biosynth)Leistner, E., *Planta Med.*, (Suppl), 1975, 214 (biosynth)González, A.G. et al, *An. Quim.*, 1977, 73, 869 (isol, deriv)Roberts, J.L. et al, *Aust. J. Chem.*, 1977, 30, 1553 (isol, ir, pmr)Rao, P.S. et al, *Indian J. Chem., Sect. B*, 1977, 15, 497 (Morindin)Vermees, B. et al, *Phytochemistry*, 1980, 19, 119 (deriv)Demagos, G.P. et al, *Z. Naturforsch., B*, 1981, 36, 1180 (isol, deriv)Wijnsma, R. et al, *Phytochemistry*, 1984, 23, 2307 (isol, deriv)Savard, J. et al, *Tetrahedron*, 1984, 40, 3455 (synth, derivs)Nema, D. et al, *Proc. Natl. Acad. Sci., India, Sect. A*, 1991, 61, 465 (2-Me ether)**1,3,8-Trihydroxy-2-methylantraquinone,** T-10161
8CI

Updated Entry replacing T-02368

8-Hydroxyrubiadin

[10169-80-9]

C₁₅H₁₀O₅ M 270.241Pigment from the roots of *Cassia spectabilis* and *C. alata*, seeds of *C. multijuga*. Dark-brown solid (CHCl₃ or MeOH) or red-orange needles. Mp 232°. λ_{\max} (EtOH) 230, 285 and 427 nm.

Tri-Ac: [32834-38-1].

C₂₁H₁₆O₈ M 396.353

Mp 205°.

8-Me ether: [71239-18-4]. **1,3-Dihydroxy-8-methoxy-2-methylantraquinone**C₁₆H₁₂O₅ M 284.268

Yellow-brown needles (EtOAc/pet. ether). Mp 238-240°.

8-Me ether, 3-O- α -L-rhamnopyranoside: [71239-74-2].C₂₂H₂₂O₉ M 430.410From *C. renigera* and *Acacia leucophloea*.

3-O-Neohesperidoside: [100288-16-2].

C₂₇H₃₀O₁₄ M 578.526Isol. from root bark of *C. sophora*. Orange-yellow cryst. Mp 196°.

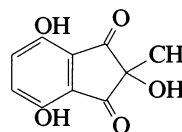
3-O-Rutinoside: [87980-51-6].

C₂₇H₃₀O₁₄ M 578.526Isol. from the roots of *C. multijuga*. Mp 300° dec.3,8-Di-Me ether: [65615-48-7]. **1-Hydroxy-3,8-dimethoxy-2-methylantraquinone**C₁₇H₁₄O₅ M 298.295Isol. from the *C. renigera*. Mp 207°.Tiwari, R.D. et al, *Planta Med.*, 1971, 19, 299 (isol, ir, uv)Mulchandani, N.B. et al, *Planta Med.*, 1977, 32, 357 (isol, ir, uv, ms)Tiwari, R.D. et al, *Planta Med.*, 1977, 32, 371; 1979, 36, 91 (derivs)Singh, J., *Planta Med.*, 1981, 41, 397 (isol)Tiwari, R.D. et al, *Z. Naturforsch., B*, 1983, 38, 1136 (isol)Joshi, T. et al, *Phytochemistry*, 1985, 24, 3073 (3-neohesperidoside)Saxena, M. et al, *J. Nat. Prod. (Lloydia)*, 1986, 49, 205 (deriv)**2,4,7-Trihydroxy-2-methyl-1,3-indanedione** T-10162

2,4,7-Trihydroxy-2-methyl-1H-indene-1,3(2H)-dione, 9CI.

Peltatone A

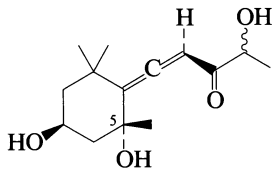
[139953-23-4]



$C_{10}H_8O_5$ M 208.170
 Constit. of the whole plant of *Drosera peltata* var. *lunata*.
 Hu, X. *et al*, *Yunnan Zhiwu Yanjiu*, 1991, **13**, 334, 340; *CA*, **116**,
 170110.

**3,5,10-Trihydroxy-10-methyl-6,7-
 megastigmadien-9-one**

T-10163



$C_{14}H_{22}O_4$ M 254.325

5-Ac:

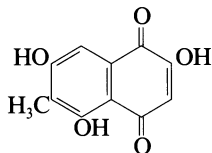
$C_{16}H_{24}O_5$ M 296.363

Constit. of *Centaurea aspera* var. *subinermis*. Gum.

Fernández, I. *et al*, *Phytochemistry*, 1993, **34**, 733 (*isol*, *pmr*, *cmr*)

**2,5,7-Trihydroxy-6-methyl-1,4-
 naphthoquinone**

T-10164



$C_{11}H_8O_5$ M 220.181

7-Me ether, 2-O-(3,7-dimethyl-2,6-octadienyl): 2-
 Geranyloxy-5-hydroxy-7-methoxy-6-methyl-1,4-
 naphthoquinone

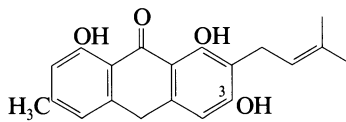
$C_{22}H_{26}O_5$ M 370.444

Prod. by a *Streptomyces* sp. Orange solid.

Westley, J.W. *et al*, *J. Antibiot.*, 1993, **46**, 280.

**1,3,8-Trihydroxy-6-methyl-2-prenyl-
 9(10H)-anthracenone**
 2-Prenylemodinanthranol

T-10165



$C_{20}H_{20}O_4$ M 324.376

3-Me ether: [120090-89-3]. 1,8-Dihydroxy-3-methoxy-6-
 methyl-2-prenylanthrone. 2-Prenylphyscion anthrone

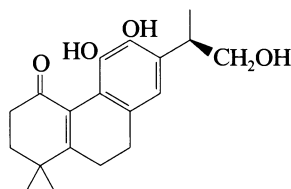
$C_{21}H_{22}O_4$ M 338.402

Isol. from *Psorospermum glaberrimum*. Cryst. Mp 191-
 192°.

Botta, B. *et al*, *Tetrahedron*, 1988, **44**, 7193.

**11,12,16-Trihydroxy-20-nor-5(10),8,11,13-
 abietatetraen-1-one**

T-10166



$C_{19}H_{24}O_4$ M 316.396

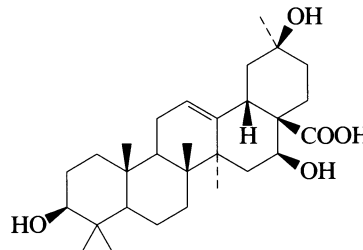
15R-form [149697-34-7]

Constit. of *Salvia mellifera*. Amorph. solid.

Luis, J.G. *et al*, *Tetrahedron*, 1993, **49**, 4993 (*isol*, *pmr*, *cmr*)

**3,16,20-Trihydroxy-30-nor-12-oleanen-28-
 oic acid**

T-10167



$C_{29}H_{46}O_5$ M 474.679

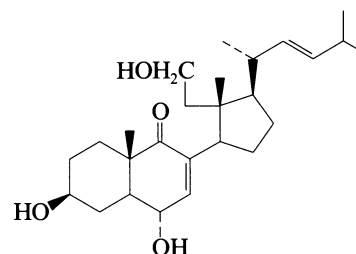
(3β,16β,20β)-form [149260-90-2] *Pfameric acid*

Constit. of *Pfaffia glomerata*. Prisms. Mp 280-282°. $[\alpha]_D$
 +46° (c, 0.5 in $CHCl_3/MeOH$).

Shiobara, Y. *et al*, *Phytochemistry*, 1993, **32**, 1527 (*isol*, *pmr*, *cmr*)

**3,6,11-Trihydroxy-24-nor-9,11-
 secocholesta-7,22-dien-9-one**

T-10168



$C_{26}H_{42}O_4$ M 418.615

(3β,6α,22E)-form

11-Ac: [147879-65-0].

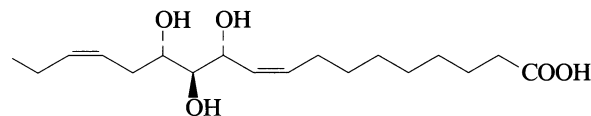
$C_{28}H_{44}O_5$ M 460.653

Constit. of *Gersemia fruticosa*. Oil. $[\alpha]_D^{22}$ +23° (c, 0.17 in
 MeOH).

Koljak, R. *et al*, *Tetrahedron Lett.*, 1993, **34**, 1985 (*isol*, *pmr*, *cmr*)

**11,12,13-Trihydroxy-9,15-octadecadienoic
 acid**

T-10169



(9Z,11R,12S,13S,15Z)-form

$C_{18}H_{32}O_5$ M 328.448

Metab. of plants suffering from rice blast disease.

Phytoalexin. Stereochem. of nat. prod. not detd.

(9Z,11R,12S,13S,15Z)-form [102735-55-7]

$[\alpha]_D$ -16.6° (c, 1.4 in $CHCl_3$).

Me ester: [130980-39-1].

$[\alpha]_D$ -16° (c, 0.17 in $CHCl_3$).

[101219-67-4, 102693-71-0]

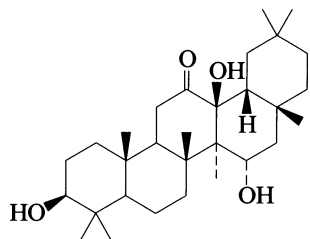
Kato, T. *et al*, *Chem. Lett.*, 1986, 577 (*isol*)

Yadav, J.-S. *et al*, *Tetrahedron Lett.*, 1990, **31**, 4349 (*synth*)

Wu, W.-L. *et al*, *Tetrahedron Lett.*, 1992, **33**, 3887 (*synth*)

3,13,15-Trihydroxy-12-oleananone

T-10170

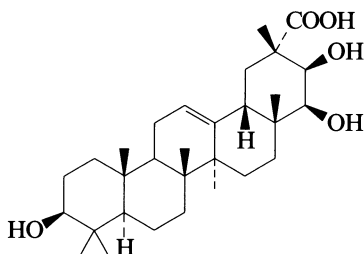
C₃₀H₅₀O₄ M 474.723**(3β,13β,15α)-form**3-Ac: [125263-65-2]. *Rubiprasin A*C₃₂H₅₂O₅ M 516.760Constit. of *Rubia cordifolia* var. *pratensis*. Needles (CHCl₃). Mp > 300°. [α]_D²⁰ + 12.8° (EtOH).

3,15-Di-Ac: [125263-68-5].

Needles (CHCl₃). Mp 270-271°.Itokawa, H. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 1670 (*isol*, *pmr*, *cmr*, *cryst struct*)

3,21,22-Trihydroxy-12-oleanen-29-oic acid

T-10171

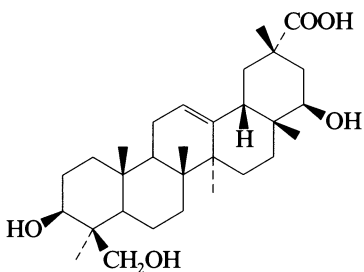
C₃₀H₄₈O₅ M 488.706**(3β,21β,22β)-form**

3-O-[α-L-Rhamnopyranosyl-(1→2)-β-D-galactopyranosyl-(1→2)-β-D-glucuronopyranoside]: [124853-93-6].

C₄₈H₇₆O₂₀ M 973.116Constit. of the bark of *Dalbergia hupeana*. Pale yellow powder. [α]_D²⁰ - 0.6° (c, 1.01 in MeOH aq.).Yahara, S. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 2136.

3,22,24-Trihydroxy-12-oleanen-29-oic acid

T-10172

C₃₀H₄₈O₅ M 488.706**(3β,22β)-form**

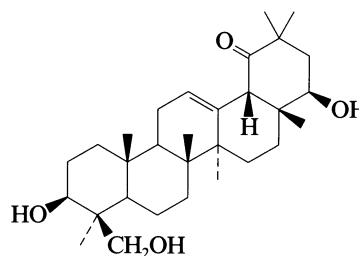
3-O-[α-L-Rhamnopyranosyl-(1→2)-β-D-glucopyranosyl-(1→4)-β-D-glucuronopyranoside]: [129369-34-2].

C₄₈H₇₆O₂₀ M 973.116Constit. of *Oxytropis glabra*. Powder. Mp 255-258°. [α]_D²⁵ - 5.0° (c, 0.24 in Py).Sun, R. *et al*, *Phytochemistry*, 1990, **29**, 2032.

3,22,24-Trihydroxy-12-oleanen-19-one

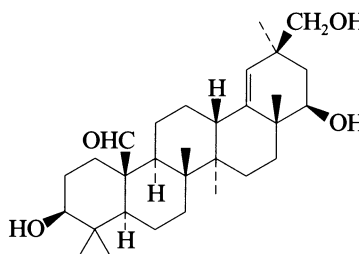
T-10173

Updated Entry replacing T-02483

C₃₀H₄₈O₄ M 472.707**(3β, 19β, 22β)-form** [111150-31-3] *Sapogenin III*Constit. of *Astragalus glycyphyllos*.Elanga, P.A. *et al*, *Pharmazie*, 1987, **42**, 422; *CA*, **107**, 214840a (*isol*, *pmr*)

3,22,30-Trihydroxy-18-oleanen-25-al

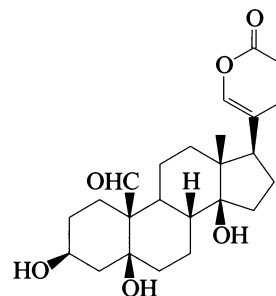
T-10174

C₃₀H₄₈O₄ M 472.707**(3β,22β)-form**3-O-[α-L-Rhamnopyranosyl-(1→2)-β-D-xylopyranosyl-(1→2)-β-D-glucuronopyranoside], 22-O-(4-hydroxy-3,5-dimethoxybenzoyl): [135545-88-9]. *Periandradulcin A*C₅₆H₈₂O₂₂ M 1107.251Constit. of the roots of *Periandra dulcis*.Phosphodiesterase inhibitor. Pale brown powder. Mp 220-225° dec. [α]_D²⁵ - 55.0° (c, 0.2 in MeOH).Ikeda, Y. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 566.

3,5,14-Trihydroxy-19-oxobufa-20,22-dienolide

T-10175

Updated Entry replacing T-02487

C₂₄H₃₂O₆ M 416.513**(3β,5β,14β)-form** [465-90-7] *Hellebrigenin*. *Bufotalidin*Aglycone from *Hellebrin*. Cryst. Mp 150-153° and 250-253° (dimorph.).

▷ EI3175800.

3-Ac: [4064-09-9].

C₂₆H₃₄O₇ M 458.550Isol. from *Bersama abyssinica*. Tumour inhibitor. Cryst. (MeOH). Mp 242°. [α]_D¹⁵ + 33.7° (c, 0.7 in CHCl₃).

3,5-Di-Ac:

C₂₈H₃₆O₈ M 500.588Isol. from *B. abyssinica*. Tumour inhibitor. Cryst. (MeOH). Mp 217-219°. [α]_D²⁸ – 23° (c, 0.5 in CHCl₃).3-(3-Methyl-2-butenoyl): [67696-82-6]. *Acrihellin*, INN. D 12316C₂₉H₃₈O₇ M 498.615

Semisynthetic inotropic agent. Cardiotonic. Mp 218-219°.

3-O- β -D-Glucopyranoside:C₃₀H₄₂O₁₁ M 578.655Constit. of *Urginea depressa*. Cryst. (MeOH). Mp 240-244°, Mp 260-263°. [α]_D²⁵ + 0.05° (MeOH).3-O-[β -D-Glucopyranosyl-(1 \rightarrow 4)- α -L-rhamnoside]: [13289-18-4]. *Hellebrin*. *Corelborin*. *Helborsid*C₃₆H₅₂O₁₅ M 724.798Constit. of *Helleborus niger* and other *H.* spp. Cardiotonic. Cryst. (MeOH). Mp 283-284°. [α]_D²⁰ – 23.4° (50% MeOH).

▷ EI2958000.

3-Suberoyl-L-arginine ester: [105330-48-1]. *Hellebritoxin*C₃₈H₅₆N₄O₁₀ M 728.881Bufotoxin from *Bufo viridis*. Mp 195-197°. [α]_D¹² – 20.0° (c, 0.13 in MeOH).19-Alcohol: [508-79-2]. *Hellebrigenol*C₂₄H₃₄O₆ M 418.529Cryst. (MeOH/Et₂O). Mp 146-153°. [α]_D²⁵ + 5.3° (MeOH).19-Alcohol, 3-O- β -glucoside:C₃₀H₄₄O₁₁ M 580.671From *U. depressa*. Cryst. (MeOH). Mp 215-218°. [α]_D – 20.6° (c, 0.778 in MeOH).3-O-(6-Deoxy-3-O-methyl- α -D-galactopyranoside): [122051-33-6]. *Physodin A*C₃₁H₄₄O₁₀ M 576.683Isol. from *Urginea physodes*.Schmutz, J., *Helv. Chim. Acta*, 1949, **32**, 1442 (*struct*)Rees, R. *et al*, *Helv. Chim. Acta*, 1959, **42**, 1052 (*isol*)Gsell, L. *et al*, *Helv. Chim. Acta*, 1969, **52**, 551 (*pmr*)Kupchan, S.M. *et al*, *J. Org. Chem.*, 1969, **34**, 3894 (*isol*)Martindale, *The Extra Pharmacopoeia*, 28th/29th Ed.,

Pharmaceutical Press, London, 1982/1989, 18718.

Achenbach, C. *et al*, *Arzneim.-Forsch.*, 1983, **33**, 1215, 1425(*Acrihellin*)Stroman, F. *et al*, *Arzneim.-Forsch.*, 1984, **34**, 769 (*Acrihellin*)Shimada, K. *et al*, *Chem. Pharm. Bull.*, 1986, **34**, 3454 (*isol, deriv*)Van Heerden, F.R. *et al*, *S. Afr. J. Chem.*, 1988, **41**, 145 (*Physodin A*)Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, HAN600.

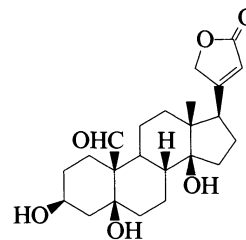
5,14,16-Trihydroxy-19-oxobufo-3,20,22-trienolide T-10176

Updated Entry replacing T-02492

C₂₄H₃₀O₆ M 414.497(5 β ,14 β ,16 β)-form [30344-97-9] *Bersenogenin*Constit. of the fruits of *Bersama abyssinica*. Prisms (Me₂CO), rhombs (MeOH), needles (CHCl₃). Mp 189-190° dec. (prisms), Mp 202-204° (rhombs), Mp 226-230° dec. (needles). [α]_D²⁶ + 108° (c, 1.4 in CHCl₃).16-Ac: [53823-13-5]. *Scillicyanogenin*C₂₆H₃₂O₇ M 456.535Formed by enzymic hydrol. of Scillicyanoside. Cryst. (Me₂CO/pentane). Mp 268-274°. [α]_D²¹ + 91.3° (c, 1 in MeOH).5-O- β -D-Glucopyranoside, 16-Ac: [11005-49-5].*Scillicyanoside*C₃₂H₄₂O₁₂ M 618.677Constit. of white squill. [α]_D²² + 89.1° (c, 0.795 in CHCl₃) (as tetra-Ac).Kupchan, S.M. *et al*, *J. Org. Chem.*, 1971, **36**, 2611.Lichti, H. *et al*, *Helv. Chim. Acta*, 1973, **56**, 2088 (*Scillicyanoside*)

3,5,14-Trihydroxy-19-oxocard-20(22)-enolide T-10177

Updated Entry replacing T-02493

C₂₃H₃₂O₆ M 404.502(3 β ,5 β ,14 β)-form [66-28-4] *Strophanthidin*. *Corchorin*Constit. of *Strophanthus kombe*. Cardiotonic agents.Cryst. + 2H₂O (H₂O). Mp 169-170° (anhyd. 235°). [α]_D²⁵ + 43.1° (MeOH).▷ LD₅₀ (mus, ivn) 0.33 mg/kg. Very tox. by intravenous route. FH5425000.3-O-Digilanidobioside: [7082-34-0]. *Erysimoside*C₃₅H₅₂O₁₄ M 696.787Cardiac glycoside present in *Erysimum* spp. and *S. kombe*. Cryst. (EtOH aq.). Mp 169-173°. [α]_D²⁴ + 22° (MeOH).

▷ KF1360000.

3-O-[β -D-Glucopyranosyl-(1 \rightarrow 4)-2-deoxy- β -D-glucopyranoside]: *Erycanoside*C₃₅H₅₂O₁₅ M 712.787Isol. from *E. canescens*. Cryst. (2-propanol/Et₂O). Mp 249-253°. [α]_D + 50.4° (c, 1.0 in MeOH).3-O-Digitoxoside: [630-64-8]. *Helveticoside*. *Alleoside*.*Erysimotoxin*. *Erysimine*. *Allioside A*C₂₉H₄₂O₉ M 534.645Constit. of *E.* and *Cheiranthus* spp., also *Hesperis matronalis*, *S. kombe* and others. Cardiac glycoside. Cryst. + 2H₂O (EtOH aq.). Mp 168-172° dec. [α]_D²⁰ + 43.5° (EtOH).▷ LD₅₀ (rat, ivn) 54 mg/kg. MH7440000.3-(6-Deoxy-4-O- β -D-glucopyranosyl- β -D-gulopyranoside): [7044-33-9]. *Cheirotoxin*C₃₅H₅₂O₁₅ M 712.787Constit. of *C. cheiri*, *C. allionii* and *E. cuspidatum*. Cryst. Mp 208-211° (198-201°). [α]_D¹² – 17.2° (MeOH).

▷ FL8500000.

3-(D-Boivinioside): [508-76-9]. *Corchoroside A*C₂₉H₄₂O₉ M 534.645Constit. of *Corchorus capsularis*, *C. olitorius*, *E.* spp., *Castilla elastica*, *H. matronalis* and others. Cardiotonic. Cryst. + 2H₂O (EtOH). Mp 188-190° (anhyd.). [α]_D²⁰ + 19° (MeOH).

▷ FH4970000.

3-O-[(2,6-Dideoxy-4-O- β -D-glucopyranosyl-3-O-methyl- β -D-ribo-hexopyranosyl)]: [560-53-2]. *k-Strophanthin- β* C₃₆H₅₄O₁₄ M 710.814Constit. of *S. kombe* and other plants. Needles (H₂O). Mp 195°. [α]_D + 32.6° (H₂O).▷ LD₅₀ (mus, ipr) 1.07 mg/kg. FH4919750.3-[(O- β -D-glucopyranosyl-(1 \rightarrow 6)-O- β -D-glucopyranosyl-(1 \rightarrow 4)-2,6-dideoxy-3-O-methyl- β -D-ribo-hexopyranosyl)]: [33279-57-1]. *k-Strophanthoside*. *k-Strophanthin- γ*

- Isol. from *S. spp.*, *Erysimum transilvanicum* and *Castilla elastica*. Needles (EtOH/CHCl₃). Mp 199-200°. [α]_D²⁰ +139.9° (MeOH).
 ▶ FH5091000.
- 3-(α -L-Mannopyranoside): **6'-Hydroxyconvallatoxin**
 C₂₉H₄₂O₁₁ M 566.644
 Constit. of *Convallaria* spp. Extremely potent cardenolide. Cryst. Mp 265-269°. [α]_D²⁹ +6.28° (c, 0.49 in 95% EtOH).
- 3-(α -L-Rhamnoside): [508-75-8]. **Convallatoxin**. *Convallaton*. *Convallopan*. *Convalpur*. *Convapur*. *Corglykon*. *Korglykon*. *Corglycone*. *Convallatoxoside*
 C₂₉H₄₂O₁₀ M 550.645
 Constit. of *C. majalis* and other plants. Highly active cardiotonic agent. Cryst. (MeOH/EtOH). Mp 247°, Mp 235-242°. [α]_D²² -1.7° (c, 0.65 in MeOH), [α]_D 0° (CHCl₃).
 ▶ LD₅₀ (cat, ipr) 0.2 mg/kg. Very toxic by intraperitoneal route. GL4025000.
- 3-[O- β -D-Glucopyranosyl-(1→4)-2-deoxy- β -D-galactopyranoside]: **Eryscenoside**
 C₃₅H₅₂O₁₅ M 712.787
 Constit. of *E. canescens*. Cryst. (2-propanol/Et₂O). Mp 138-142°, Mp 162-170°. [α]_D²⁵ +20.9° (c, 1 in MeOH).
- 3-Cymaroside: [508-77-0]. **Cymaridin**. *Cimaridin*. *k-Strophanthin*
 C₃₀H₄₄O₉ M 548.672
 Constit. of *Apocynum*, *Adonis* and *S. spp.* Cardiotonic agent. Actions similar to those of digoxin. Cryst. (MeOH). Mp 148°. [α]_D²² +39° (c, 1.7 in CHCl₃).
 ▶ LD₅₀ (rat, ivn) 20 mg/kg. GZ5600000.
- 3-O-(β -D-Glucoside): [6014-43-3]. **Glucostrophanthidin**
 C₂₉H₄₂O₁₁ M 566.644
 Cardiotonic. Mp 234-238° dec. [α]_D²⁴ +20.6° (c, 1.058 in H₂O).
- 3-O-(6-Deoxy-4-O- β -D-glucopyranosyl- α -L-mannopyranoside): [13473-51-3]. **Convallioside**. *Bogoroside*
 C₃₅H₅₂O₁₅ M 712.787
 Constit. of seeds of *C. majalis* and some other spp. Needles (MeOH/Et₂O). Mp 201-204°. [α]_D²⁵ -10.4° (80% EtOH aq.).
 ▶ *C. Majalis* has been designated unsafe for inclusion in foods etc. by USA FDA. GL4207500.
- α -D-Rhamnopyranoside: *Strophanthidin* α -D-rhamnopyranoside
 C₂₉H₄₂O₁₀ M 550.645
 Potent cardenolide. Cryst. (EtOH). Mp 261-263°. [α]_D +95.8° (CHCl₃).
- 3-O-(6-Deoxy- β -D-allopyranoside): [4336-94-1]. **Strophalloside**
 C₂₉H₄₂O₁₀ M 550.645
 From *Streblus asper* and *Antiaris toxicaria*. Cryst. (MeOH). Mp 163-165°, Mp 183-186° and 177-181° (double Mp). [α]_D +5° (MeOH).
- 3-O-Digitaloside: [65681-32-5]. *Strophanthidin digitaloside*
 C₃₀H₄₄O₁₀ M 564.672
 Constit. of *Adonis vernalis*.
- 3-O-[β -D-Glucopyranosyl-(1→4)-2,3-di-O'-methyl- β -D-fucopyranoside]: **Glucostrebluside**
 C₃₇H₅₆O₁₅ M 740.840
 From *Streblus asper*. Cryst. (MeOH). Mp 244-248° and 258-262° (double Mp). [α]_D +8.9° (MeOH aq.).
- 3-O-[6-(3-(4-Hydroxy-3,5-dimethoxyphenyl)-2-propenoyl)- β -D-glucopyranosyl-(1→4)- β -D-glucopyranosyl-(1→4)-digitoxoside]: [58274-19-4]. **Sinapoylglucoerysimoside**
 C₅₂H₇₂O₂₃ M 1065.127
 Constit. of *Erysimum marschallianum*. Amorph. yellow powder.
- 3-O-(3-(4-Hydroxy-3,5-dimethoxyphenyl)-2-propenoyl)- β -D-glucopyranosyl-(1→4)-digitoxoside: [53915-37-0]. **Sinapoylerysimoside**
 C₄₆H₆₂O₁₈ M 902.985
 From *E. diffusum*. Amorph. yellow powder. [α]_D²⁰ +33.6° (c, 2.2 in MeOH).
- 3-O-(2-Deoxy-D-glucoside): **Perofskoside**
 C₂₉H₄₂O₁₀ M 550.645
 Isol. from *E. perofskianum*. Amorph. [α]_D²⁶ +25.5° (c, 1.6 in MeOH).
- 3-O-D-Gulomethylsiole: **Desglucocheirotosin**
 C₂₉H₄₂O₁₀ M 550.645
 Isol. from *Convallaria majalis*, *C. keiskei*, *E. canescens*. Cryst. (MeOH aq. or MeOH/Et₂O). Mp 188-189° (181-184°). [α]_D²⁰ +1.3° (-8.7°)(MeOH).
- 3-O-(2-Deoxy-D-guloside): **Kabuloside**. *Cabuloside*
 C₂₉H₄₂O₁₀ M 550.645
 Isol. from *E. perofskianum* and *Syrenia* spp. Amorph. [α]_D +25.5°.
- 3-O-[β -D-Xylopyranosyl-(1→4)- β -D-digitoxoside]: [630-65-9]. **Erychroside**. *Erysimum glycoside* 1
 C₃₄H₅₀O₁₃ M 666.761
 Isol. from *E. cheiranthoides* and *E. gypsaceum*. Cryst. +1H₂O. Mp 239-241°. [α]_D²¹ +21.6° (c, 1.2 in MeOH).
- 3-O-Bioside: **Eryperoside**
 C₃₅H₅₂O₁₄ M 696.787
 Isol. from *E. perofskianum*. Powder (2-propanol). Mp 178-180°. [α]_D²³ +43.9° (c, 1.8 in MeOH). Full struct. unknown.
- 3-O-[β -D-Glucopyranosyl-(1→4)-2,6-dideoxy- β -D-xylohexopyranoside]: [13289-20-8]. **Olitoriside**. *Olitorin*
 C₃₅H₅₂O₁₄ M 696.787
 Isol. from *Corchorus capsularis* and *C. olitorius*. Mp 204-206°. [α]_D²² -4.5°.
- 3-O-Bioside: **Erycorchoside**
 C₃₅H₅₂O₁₄ M 669.574
 Nodules (2-propanol). Mp 238-240°. [α]_D²³ +30.3° (c, 1.4 in MeOH). Full struct. unknown.
- 3-O-(2,3-Di-O-methyl- β -D-fucopyranoside): [59015-79-1]. **Strebluside**
 C₃₁H₄₆O₁₀ M 578.698
 Isol. from root bark of *Streblus asper*. Needles (MeOH aq. or Me₂CO aq.). Mp 153-158°. [α]_D²⁹ +25.3° (c, 0.8 in MeOH).
- 3-O- β -D-Glucofuranoside: [23444-75-9]. **Scorpioside**
 C₂₉H₄₂O₁₁ M 566.644
 Isol. from *Coronilla scorpioides*. Mp 267-269°. [α]_D²⁰ +8.0° (c, 0.2 in MeOH). Rare occurrence of glucofuranoside.
- 3-O-(6-Deoxy-3-O-methyl- β -D-allopyranoside): **Strophanthojavoside**
 C₃₀H₄₄O₁₀ M 564.672
 Isol. from seeds of *Antiaris toxicaria*. Prisms (MeOH). Mp 158-161°. [α]_D²⁴ +1.2° (c, 0.96 in CHCl₃).
- 3-O-[β -D-Glucopyranosyl-(1→6)- β -D-glucopyranosyl-(1→4)- β -D-digitoxoside]: [125708-07-8]. **Olitorisin**
 C₄₁H₆₂O₁₉ M 858.929
 Isol. from the seeds of *Corchorus olitorius*. Solid (MeOH/Et₂O). Mp 185-188°. [α]_D +21.2° (c, 0.45 in MeOH).
- 3-O-Thevetoside: [15487-11-3]. **Strophothevoside**
 C₃₀H₄₄O₁₀ M 564.672
 Constit. of *Mansonia altissima*. Needles. Mp 216-221°. [α]_D²⁴ +6.7° (MeOH).
- 3-O-(2,3-Di-O-methyl-6-deoxyglucopyranoside): [11037-26-6]. **Mansonin**
 C₃₁H₄₆O₁₀ M 578.698
 Constit. of *M. altissima*. Cryst. Mp 170-175°. [α]_D²⁴ +6.7° (MeOH).

(3 β ,5 β ,14 β ,17 α)-form [4331-85-5]
Allostrophanthidin. 17-*Iso*strophanthidin
 Aglycone from *Strophanthus kombe*. Mp 251-253°. [α]_D²⁶
 +37° (EtOH).

3-O-*Digitoxoside*: [6869-17-6]. 17 α -*Helveticoside*
 C₂₉H₄₂O₉ M 534.645

Chen, K.K. *et al*, *J. Pharmacol. Exp. Ther.*, 1954, **111**, 365
 (pharmacol)

Nagata, W. *et al*, *Helv. Chim. Acta*, 1957, **40**, 41 (isol)

Mauli, R. *et al*, *Helv. Chim. Acta*, 1957, **40**, 284
 (*Glucostrophanthidin*)

Kreis, M.K. *et al*, *Helv. Chim. Acta*, 1957, **40**, 588 (isol, struct)

Kowalewski, Z. *et al*, *Helv. Chim. Acta*, 1960, **43**, 1280
 (*Perofskoside*, *Erycorchoside*, *Kabuloside*, *Eryperoside*)

Kaiser, F. *et al*, *Justus Liebigs Ann. Chem.*, 1961, **643**, 192
 (*Erysimoside*)

Zorbach, W. *et al*, *J. Med. Chem.*, 1963, **6**, 298 (synth)

Zorbach, N. *et al*, *Naturwissenschaften*, 1963, **50**, 93 (6'-*Hydroxyconvallatoxin*)

Manzetti, A. *et al*, *Helv. Chim. Acta*, 1964, **47**, 2320; 1969, **52**, 482.

Wyss, E. *et al*, *Helv. Chim. Acta*, 1966, **43**, 664 (*Cymarine*)

Bauer, S. *et al*, *Tetrahedron Lett.*, 1966, 1703 (*Eryscenoside*)

Allgeir, H. *et al*, *Helv. Chim. Acta*, 1967, **50**, 456
 (*Strophothevoside*)

Burkhardt, F. *et al*, *Helv. Chim. Acta*, 1967, **50**, 607.

Kommissarenko, N.F. *et al*, *Khim. Prir. Soedin.*, 1969, **5**, 381;
Chem. Nat. Compd. (Engl. Transl.), 317 (*Scorpioside*)

Umarova, R.U. *et al*, *Khim. Prir. Soedin.*, 1970, **6**, 140; *Chem.*
Nat. Compd. (Engl. Transl.), 138 (*Corchoroside A*)

Karrer, W. *et al*, *Konstitution und Vorkommen der Organischen*
Pflanzenstoffe, 2nd Ed., Birkhäuser Verlag, Basel, 1972-1985,
 nos. 2249, 2251-2254 (occur)

Gilardi, R.D. *et al*, *Acta Crystallogr., Sect. B*, 1973, **29**, 1842 (cryst
 struct)

Navruzova, A.M. *et al*, *Khim. Prir. Soedin.*, 1973, **9**, 750; *Chem.*
Nat. Compd. (Engl. Transl.), 718 (*Sinapoylerysimoside*)

Tori, K. *et al*, *Tetrahedron Lett.*, 1973, 1077 (cmr)

Makarevich, I.F. *et al*, *Khim. Prir. Soedin.*, 1974, **10**, 607; *Chem.*
Nat. Compd. (Engl. Transl.), 616 (*Cheirotoxin*)

Kubelka, W. *et al*, *Phytochemistry*, 1974, **13**, 1805 (*Convallatoxin*)

Gonzalez, A.G. *et al*, *An. Quim.*, 1975, **71**, 97 (*Corchoroside A*)

Maksytina, N.P. *et al*, *Khim. Prir. Soedin.*, 1975, **11**, 603; *Chem.*
Nat. Compd. (Engl. Transl.), 632 (*Sinapoylerysimoside*)

Pal'yants, N.Sh. *et al*, *CA*, 1976, **85**, 143397a (*Convallatoxin*)

Wichtl, M. *et al*, *Arch. Pharm. (Weinheim, Ger.)*, 1977, **310**, 905
 (*digitaloside*)

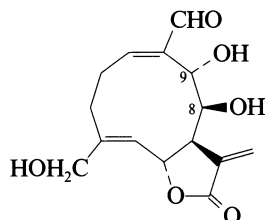
Mahato, S.B. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1989, 2065
 (*Olotoriusin*)

Kreiser, W. *et al*, *Justus Liebigs Ann. Chem.*, 1989, 315 (pmr, cmr)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical
 Press, London, 1993, 664.

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th
 Ed., Van Nostrand-Reinhold, 1992, CNH780, CQH750,
 HAN800, SMM500, SMN002.

8,9,15-Trihydroxy-14-oxo-1(10),4,11(13)-germacatrien-12,6-olide T-10178

Updated Entry replacing T-02508



(1(10)*E*,4*Z*,6 α ,8 β ,9 α)-form

C₁₅H₁₈O₆ M 294.304

(1(10)*E*,4*Z*,6 α ,8 β ,9 α)-form

9-Ac: [145052-07-9]. *Lecocarpinolide E*

C₁₇H₂₀O₇ M 336.341

Constit. of *Lecocarpus pinnatifidus*. Gum.

8-Angeloyl, 9-Ac: [117213-71-5]. *Lecocarpinolide B*

C₂₂H₂₆O₈ M 418.443

Constit. of *L. pinnatifidus*. Gum.

8-(2-Methylbutanoyl), 9-Ac: [56679-19-7]. *Acanthospermal B*

C₂₂H₂₈O₈ M 420.458

Constit. of *Acanthospermum hispidum* and *L. pinnatifidus*. Gum.

9-(2-Methylbutanoyl): [145042-09-7]. *Lecocarpinolide G*

C₂₀H₂₆O₇ M 378.421

Constit. of *L. pinnatifidus*.

8-(2-Methylbutanoyl), 9-angeloyl: [146959-84-4].

Lecocarpinolide I

C₂₅H₃₂O₈ M 460.523

Constit. of *L. leocarpoides*. Gum.

8-(2-Methylbutanoyl), 9-(2-methylpropanoyl):

[146959-83-3]. *Lecocarpinolide K*

C₂₄H₃₂O₈ M 448.512

Constit. of *L. leocarpoides*. Gum.

8-(2-Methylpropanoyl), 9-Me ether: *Lecocarpinolide M*

C₂₀H₂₆O₇ M 378.421

Constit. of *L. leocarpoides*. Gum.

8-(2-Methylbutanoyl), 9-Me ether: [147059-45-8].

Lecocarpinolide J

C₂₁H₂₈O₇ M 392.448

Constit. of *L. leocarpoides*. Gum.

(1(10)*E*,4*Z*,6 α ,8 β ,9 β)-form

9-(2-Methylbutanoyl), 8-angeloyl: [146959-82-2].

Lecocarpinolide L

C₂₅H₃₂O₈ M 460.523

Constit. of *L. leocarpoides*. Gum.

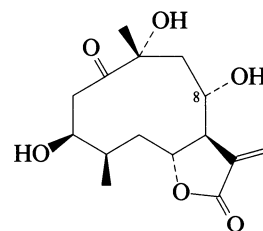
Herz, W. *et al*, *J. Org. Chem.*, 1975, **40**, 3486 (*Acanthospermal B*)

Macias, F.A. *et al*, *Phytochemistry*, 1992, **31**, 2747; 1993, **32**, 127

(*Lecocarpinolides*)

3,8,10-Trihydroxy-1-oxo-11(13)-germacren-12,6-olide T-10179

Updated Entry replacing T-02509



C₁₅H₂₂O₆ M 298.335

(3 β ,4 α H,6 α ,8 α ,10 α)-form

8-Angeloyl, 10-Ac: [80377-60-2]. 2,3-Dihydro-3 β -hydroxyeregglomerulide

C₂₂H₃₀O₈ M 422.474

Constit. of *Eremanthus glomerulatus*. Cryst. (Et₂O/pet. ether). Mp 105°. [α]_D²⁴ -4.6° (c. 0.7 in CHCl₃).

8-(2-Methylpropenoyl), 10-Ac:

C₂₁H₂₈O₈ M 408.447

Constit. of *Lychnophora blanchetii*. Gum.

3-Me ether, 8-(2-methylpropenoyl), 10-Ac:

C₂₂H₃₀O₈ M 422.474

Isol. from *L. blanchetii*. Gum.

(3 β ,4 α H,6 α ,8 β ,10 α)-form

8-Angeloyl: 8-Angeloyloxyternifolin

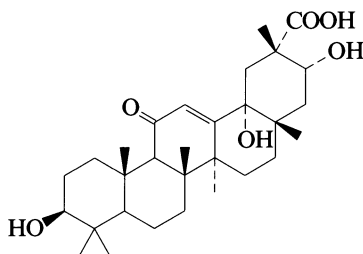
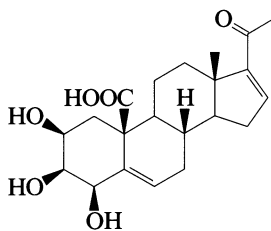
C₂₀H₂₈O₇ M 380.437

Constit. of *Helianthus californicus*. Cryst. (CH₂Cl₂). Mp 168-170°.

3-Me ether, 8-angeloyl:

C₂₁H₃₀O₇ M 394.464Constit. of *H. californicus*. Oil.

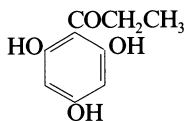
3-O-Isopropyl, 8-angeloyl:

C₂₃H₃₄O₇ M 422.517Constit. of *H. californicus*. Oil.Bohlmann, F. *et al*, *Phytochemistry*, 1981, **20**, 1609; 1982, **21**, 1087.Gershenzon, J. *et al*, *Phytochemistry*, 1984, **23**, 2561 (*isol*, *pmr*, *cmr*, *cryst struct*)**3,18,21-Trihydroxy-11-oxo-12-oleanen-29-oic acid T-10180**C₃₀H₄₆O₆ M 502.690**(3β,18α,21α)-form**29 → 18 Lactone: [18184-25-3]. 3,21-Dihydroxy-11-oxo-12-oleanen-29,18-olide. **21-Hydroxyisoglabrolide**C₃₀H₄₄O₅ M 484.675Constit. of *Glycyrrhiza glabra*. Cryst. (CHCl₃/2-propanol). Mp 304-305°. [α]_D²⁰ – 11° (c, 1 in Py).Canonica, L. *et al*, *Gazz. Chim. Ital.*, 1967, **97**, 1347.**2,3,4-Trihydroxy-20-oxopregna-5,16-dien-19-oic acid T-10181**C₂₁H₂₈O₆ M 376.449**(2β,3β,4β)-form**

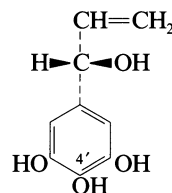
19 → 2 Lactone: 3,4-Dihydroxy-20-oxopregna-5,16-dien-19,2-olide

C₂₁H₂₆O₅ M 358.433Constit. of a *Strongylophora* sponge. [α]_D – 130° (c, 1.5 in CHCl₃).Corgiat, J.M. *et al*, *Tetrahedron*, 1993, **49**, 1557 (*isol*, *pmr*, *cmr*)**1-(2,4,6-Trihydroxyphenyl)-1-propanone, 9CI T-10182**2',4',6'-Trihydroxypropiophenone. **Flopropione**, INN.*Phloropropiophenone*. *Fluoropropiophenone*. *Compacsul*.*Cospanon*. *Ecapron*. *Pellegal*. *Argobyl*. *Floveton*. *Saritron*.*Spamorin*. *Labrodax*. *Tryalon*. *Mirulevatin*. *Padeskin*.*Profenon*. Ethyl 2,4,6-trihydroxyphenyl ketone

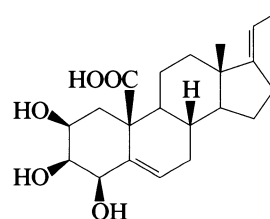
[2295-58-1]

C₉H₁₀O₄ M 182.176Constit. of *Inula viscosa*. Serotonin antagonist, spasmolytic agent. Needles + 1H₂O (H₂O). Sl. sol. H₂O. Mp 175-176°.

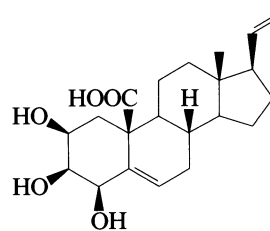
▷ UH4429100.

Howells, H.P. *et al*, *J. Am. Chem. Soc.*, 1932, **54**, 2451 (*synth*)Populaire, P. *et al*, *Therapie*, 1968, **23**, 91 (*metab*)Inoue, S., *Jpn. J. Pharmacol.*, 1969, **19**, 224 (*pharmacol*)Mizobuchi, S. *et al*, *Agric. Biol. Chem.*, 1985, **49**, 719 (*synth*)Bolte, M.L. *et al*, *Agric. Biol. Chem.*, 1985, **49**, 761 (*synth*)Grande, M. *et al*, *Planta Med.*, 1985, 414 (*isol*)Negwer, M., *Organic-Chemical Drugs and their Synonyms*, 6th Ed., Akademie-Verlag, Berlin, 1987, 1192 (*synonyms*)*Martindale. The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, London, 1993, 1371.**1-(3,4,5-Trihydroxyphenyl)-2-propen-1-ol T-10183**C₉H₁₀O₄ M 182.176**(S)-form**

3',5'-Di-Me ether, 4'-O-β-D-glucopyranoside: [117259-33-3].

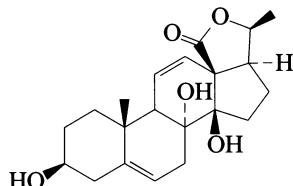
Tangshenoside IIC₁₇H₂₄O₉ M 372.371Constit. of the roots of *Codonopsis tangshen*. Powder.[α]_D¹⁹ – 29° (c, 1.37 in EtOH).Mizutani, K. *et al*, *Chem. Pharm. Bull.*, 1988, **36**, 2726.**2,3,4-Trihydroxypregna-5,17-dien-19-oic acid T-10184**C₂₁H₃₀O₅ M 362.465**(2β,3β,4β,17(20)E)-form**

19 → 2 Lactone: 3,4-Dihydroxypregna-5,17-dien-19,2-olide

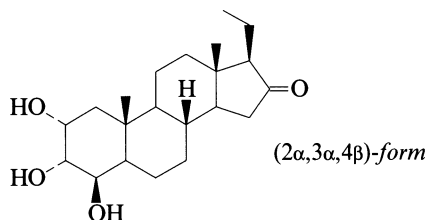
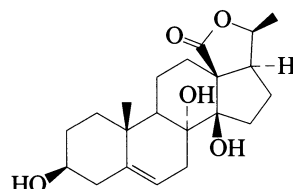
C₂₁H₂₈O₄ M 344.450Constit. of a *Strongylophora* sponge. Cryst. [α]_D – 82° (c, 1.2 in CHCl₃).Corgiat, J.M. *et al*, *Tetrahedron*, 1993, **49**, 1557 (*isol*, *pmr*, *cmr*, *cryst struct*)**2,3,4-Trihydroxypregna-5,20-dien-19-oic acid T-10185**

C₂₁H₃₀O₅ M 362.465**(2β,3β,4β)-form**

19→2 Lactone: 3,4-Dihydroxypregna-5,20-dien-19,2-olide

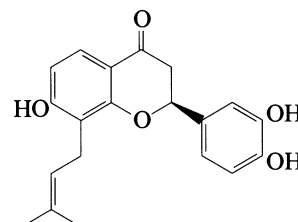
C₂₁H₂₈O₄ M 344.450Constit. of a *Strongylophora* sponge. [α]_D –96° (c, 5 in CHCl₃).Corgiat, J.M. *et al*, *Tetrahedron*, 1993, **49**, 1557 (*isol*, *pmr*, *cmr*)**3,8,14-Trihydroxypregna-5,11-dien-18,20-olide** T-10186C₂₁H₂₈O₅ M 360.449**(3β,8α,14β,20S)-form****Amalogenin B**Constit. of *Amalocalyx yunnanensis*. Cryst. Mp 218-220°.3-O-β-D-Diginopyranoside: **Amalaside D**C₂₈H₄₀O₈ M 504.619Constit. of *A. yunnanensis*. Prisms. Mp 240-242°.Shen, X.-L. *et al*, *Phytochemistry*, 1993, **33**, 687 (*isol*, *pmr*, *cmr*)**2,3,4-Trihydroxypregnan-16-one** T-10187

Updated Entry replacing T-02572

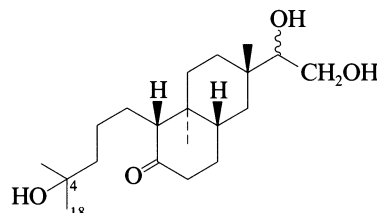
C₂₁H₃₄O₄ M 350.497**(2α,3α,4β)-form** [147058-07-9]Constit. of *Trichilia schomburgkii*. Cryst. Mp 245-247°.[α]_D –95.2° (c, 0.05 in MeOH).**(2β,3β,4β)-form** [137100-72-2]Constit. of *T. schomburgkii*. Cryst. (Me₂CO/hexane). Mp 262-265°. [α]_D –124° (c, 0.08 in CHCl₃).Tinto, W.F. *et al*, *J. Nat. Prod. (Lloydia)*, 1991, **54**, 972 (*isol*, *pmr*, *cmr*)Ketwaru, P. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 430 (*isol*, *pmr*, *cmr*)**3,8,14-Trihydroxypregna-5-en-18,20-olide** T-10188C₂₁H₃₀O₅ M 362.465**(3β,8α,14β,20S)-form**3-O-Diginopyranoside: **Amalaside C**C₂₈H₄₂O₈ M 506.635Constit. of *Amalocalyx yunnanensis*. Powder (MeOH). Mp 186°.Shen, X.-L. *et al*, *Phytochemistry*, 1993, **33**, 687 (*isol*, *pmr*, *cmr*)**3',4',7-Trihydroxy-8-prenylflavanone** T-10189

Updated Entry replacing T-02606

2-(3,4-Dihydroxyphenyl)-2,3-dihydro-7-hydroxy-8-(3-methyl-2-butenyl)-4H-1-benzopyran-4-one

C₂₀H₂₀O₅ M 340.375**(S)-form**3',4'-Methylene ether: [75680-31-8]. 7-Hydroxy-3',4'-methylenedioxy-8-prenylflavanone. **Ovaliflavanone C**C₂₁H₂₀O₅ M 352.386Isol. from *Milletia ovalifolia*. Needles (EtOAc/pet. ether). Mp 158°. [α]_D²⁵ –108° (CHCl₃).3',4'-Methylene, 7-Me ether: [115219-94-8]. 7-Methoxy-3',4'-methylenedioxy-8-prenylflavanone. **O-Methylovaliflavanone C**C₂₂H₂₂O₅ M 366.413Constit. of the roots of *Dahlstedtia pentaphylla*. Cryst. (EtOH). Mp 120-122°. [α]_D²⁸ –80.3° (c, 1 in CHCl₃).Islam, A. *et al*, *Phytochemistry*, 1980, **19**, 1558.Garcez, F.R. *et al*, *Phytochemistry*, 1988, **27**, 1079 (*O*-Methylovaliflavanone C)**4,15,16-Trihydroxy-4,5-seco-5-rosanone** T-10190

4,15,16-Trihydroxy-5-pictanone

C₂₀H₃₆O₄ M 340.502**(ent-15ξ)-form** [150036-57-0]Constit. of *Erythroxylon pictum*. Powder. Mp 125-128°. [α]_D –20° (CH₂Cl₂).18-Hydroxy: [150036-59-2]. **4,5,16,18-Tetrahydroxy-4,5-seco-5-rosanone**. 4,15,16,18-Tetrahydroxy-5-pictanoneC₂₀H₃₆O₅ M 356.501Constit. of *E. pictum*. 4-Config. undetd.4-Deoxy, 4,18-didehydro: **4,15,16-Trihydroxy-4,5-seco-4(18)-rosen-5-one**. 4,15,16-Trihydroxy-4(18)-picten-5-oneC₂₀H₃₄O₃ M 322.487Constit. of *E. pictum*. Oil.4-Deoxy, 4,18-didehydro, 15-ketone: [150036-60-5]. **16-Hydroxy-4,5-seco-4(18)-rosene-5,15-dione**. **16-Hydroxy-4(18)-pictene-15,16-dione**C₂₀H₃₂O₃ M 320.471Constit. of *E. pictum*.

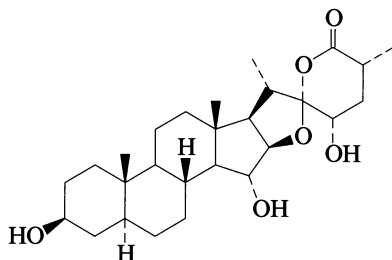
4-Deoxy, 4,18-didehydro, 4ξ,18-epoxide: [150036-58-1].

4,18-Epoxy-16-hydroxy-4,5-seco-5-rosanone. 4,18-Epoxy-16-hydroxy-5-pictanone

$C_{20}H_{34}O_4$ M 338.486
Constit. of *E. pictum*.

Ansell, S.M. *et al*, *Phytochemistry*, 1993, **32**, 945 (*isol*, *pmr*, *cmr*)

3,15,23-Trihydroxyspirostan-26-one, 9CI T-10191



$C_{27}H_{42}O_6$ M 462.625

(3β,5α,23S,25R)-form

3-O-*Neohesperidoside*: [137031-53-9]. *Soladulcoside A*

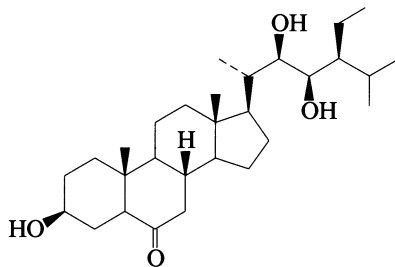
$C_{39}H_{62}O_{15}$ M 770.910

Constit. of the aerial parts of *Solanum dulcamara*.
Powder. $[\alpha]_D^{20} - 73.8^\circ$.

Yamashita, T. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1626.

3,22,23-Trihydroxystigmastan-6-one T-10192

3,22,23-Trihydroxy-24-ethylcholestan-6-one



$C_{29}H_{50}O_4$ M 462.712

(3β,22R,23R,24S)-form [90524-90-6] **28-Homoteasterone**

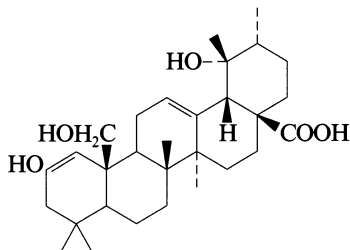
Constit. of *Raphanus sativus*. Cryst. (EtOAc/hexane).
Mp 206-209°.

Takatsuto, S. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1984, 439
(*synth*, *pmr*)

Schmidt, J. *et al*, *Phytochemistry*, 1993, **34**, 391 (*isol*)

2,19,25-Trihydroxy-1,12-ursadien-28-oic acid T-10193

19,25-Dihydroxy-2-oxo-12-ursen-28-oic acid



$C_{30}H_{46}O_5$ M 486.690

19α-form

1-(2-Methylpropanoyl): [145701-14-0]. *Alpinic acid*

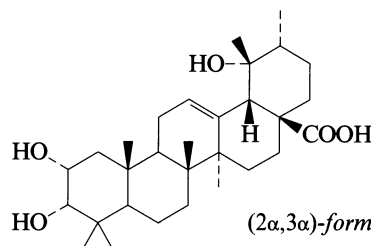
$C_{34}H_{52}O_6$ M 556.781

Constit. of *Sanguisorba alpina*. Cryst. Mp 123-126°. $[\alpha]_D^{15} + 47.7^\circ$ (c, 0.3 in $CHCl_3$). An enol ether.

Liu, X.-Q. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 515 (*isol*, *pmr*, *cmr*)

2,3,19-Trihydroxy-12-ursen-28-oic acid T-10194

Updated Entry replacing T-02715



$C_{30}H_{48}O_5$ M 488.706

(2α,3α)-form [53155-25-2] **Euscaphic acid**. *Jacarandic acid*.
Acuminatic acid

Constit. of *Euxaphis japonica*, *Coleus amboinicus*,
Jacaranda caucana and *Pygeum acuminatum*. Powder or
cryst. (MeOH). Mp 270-271° (264°). $[\alpha]_D^{23} + 12^\circ$ (c, 1 in
MeOH).

Me ester: [52936-89-7].

$C_{31}H_{50}O_5$ M 502.733

From *Myrianthus arboreus*.

2,3-Di-Ac: Cryst. (C_6H_6 /hexane). Mp 188°.

β-D-Glucopyranosyl ester: [95298-47-8]. **Kaji-ichigoside F1**

$C_{36}H_{58}O_{10}$ M 650.848

Constit. of *Sanguisorba alpina*. Needles. Mp 202-204°.

(2α,3β)-form [13850-16-3] **Tormentic acid**

Aglycone from *Potentilla tormentilla*. Cryst. Mp 273°.
 $[\alpha]_D - 20^\circ$ (Py).

2-Ac: [97094-22-9].

$C_{32}H_{50}O_6$ M 530.743

Isol. from roots of *Musanga cecropioides* and from
Myrianthus arboreus. Cryst. (Et₂O/pet ether) (as Me
ester). Mp 134-135° (Me ester).

3-Ac: [97094-23-0].

$C_{32}H_{50}O_6$ M 530.743

Isol. from roots of *Musanga cecropioides* and from
Myrianthus arboreus. Cryst. (Et₂O/pet. ether) (as Me
ester). Mp 123-125° (Me ester).

β-D-Glucopyranosyl ester: [88515-58-6]. **Rosamultin**.

Tormentic acid ester glucoside

$C_{36}H_{58}O_{10}$ M 650.848

Constit. of *Rosa multiflora* and *Aphloia theiformis*.

Amorph. powder.

2-Ketone: [54963-52-9]. 3β,19α-Dihydroxy-2-oxo-12-ursen-
28-oic acid. **Pirolonic acid**. **2-Oxopomolic acid**

$C_{30}H_{46}O_5$ M 486.690

Constit. of wood of *Malus pumila* infected by
Chondrostereum purpureum. Amorph. solid. Mp 204-
209°.

3-Ketone, β-D-glucopyranosyl ester: **2-Oxopomolic acid β-D-**
glucopyranosyl ester

$C_{36}H_{56}O_{10}$ M 648.832

Constit. of *S. alpina*. Platelets. Mp 142-143.5°. $[\alpha]_D^{16} + 14.5^\circ$ (c, 1.48 in Py).

3-O-β-D-Glucopyranoside, β-D-glucopyranosyl ester: [146356-
80-1]. **Rosamultin 3-glucoside**

$C_{42}H_{68}O_{15}$ M 812.990

Constit. of *S. alpina*. Amorph. powder. Mp 277-280°.
 $[\alpha]_D + 5.0^\circ$ (c, 1.03 in Py).

β-D-Galactopyranosyl ester:

$C_{36}H_{58}O_{10}$ M 650.848

Constit. of *S. alpina*. Amorph. powder. Mp 193-195°.
 $[\alpha]_D + 8.8^\circ$ (c, 1.24 in Py).

3-(p-Hydroxy-E-cinnamoyl): **3-trans-p-Coumaroyltormentic**
acid

$C_{39}H_{54}O_7$ M 634.851

Constit. of Goreishi (the faeces of *Trogopterus xanthipis*). Cryst. (MeOH). Mp 245-247°. $[\alpha]_D^{25} + 25^\circ$ (c, 0.3 in MeOH).

3-(*p*-Hydroxy-*Z*-cinnamoyl): **3-cis-*p*-Coumaroyltormentic acid**

$C_{39}H_{54}O_7$ M 634.851

Constit. of Goreishi. Cryst. (MeOH). Mp 238-240°. $[\alpha]_D^{25} + 2.1^\circ$ (c, 0.19 in MeOH).

(2 β ,3 β)-form

2-Epitormentic acid

Constit. of *Cunila lythrifolia*.

[54963-57-4, 77820-51-0]

Potier, P. *et al*, *Bull. Soc. Chim. Fr.*, 1966, 3458.

Takahashi, K. *et al*, *Chem. Pharm. Bull.*, 1974, **22**, 650.

Chandel, R.S. *et al*, *Indian J. Chem., Sect. B*, 1977, **15**, 914.

Ojinnaka, C.M. *et al*, *Phytochemistry*, 1980, **19**, 2482 (acetates)

Du, H. *et al*, *Yaoxue Xuebao*, 1983, **18**, 314; *CA*, **100**, 48578e (*Rosamultin*)

Seto, T. *et al*, *Phytochemistry*, 1984, **23**, 2829 (*Kaji-ichigoside F1*)

Kemp, M.S. *et al*, *J. Chem. Res., Miniprint*, 1985, 1846 (2-*Oxopomolic acid*)

Gopalsamy, N. *et al*, *Phytochemistry*, 1988, **17**, 3593.

Numata, A. *et al*, *Chem. Pharm. Bull.*, 1989, **37**, 648 (*p*-Coumaroyl ester)

Delgado, G. *et al*, *Phytochemistry*, 1989, **28**, 1483 (2-*Epitormentic acid*)

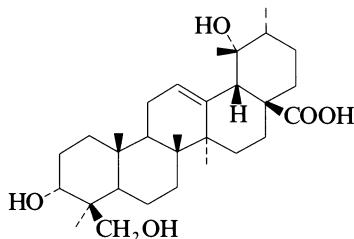
Lonsi, D. *et al*, *Phytochemistry*, 1992, **31**, 4285 (*Euscaphic acid*, *pmr*, *cmr*)

Yang, M.-H. *et al*, *Planta Med.*, 1992, **58**, 227 (*Tormentic acid*, *cmr*)

Jia, Z.-J. *et al*, *Phytochemistry*, 1993, **32**, 155 (*Rosamultin 3-glucoside*)

3,19,24-Trihydroxy-12-ursen-28-oic acid T-10195

Updated Entry replacing T-02723



$C_{30}H_{48}O_5$ M 488.706

(3 α ,19 α)-form [64199-78-6] **Barbinervic acid**

Constit. of *Clethra barbinervis*. Cryst. (MeOH). Mp 298°. $[\alpha]_D^{31} + 18^\circ$ (c, 1 in EtOH).

(3 β ,19 α)-form

Rotungenic acid

Constit. of *Ilex rotunda*. Cryst. (MeOH aq.). Mp 295-298° dec. $[\alpha]_D + 16^\circ$ (MeOH).

24-O-(3-Hydroxy-4-methoxycinnamoyl): **3 β ,19 α -Dihydroxy-24-trans-ferulyloxy-12-ursen-28-oic acid**

$C_{40}H_{56}O_8$ M 664.878

Constit. of *Stizophyllum riparium*. Amorph. Mp 195-197°. $[\alpha]_D^{25} + 1.58^\circ$ (c, 0.38 in $CHCl_3$).

β -D-Glucopyranosyl ester: [121387-38-0]. **Rotungenoside**

$C_{36}H_{58}O_{10}$ M 650.848

Constit. of the fruit of *I. rotunda*. Amorph. powder. $[\alpha]_D^{25} + 5^\circ$ (c, 0.04 in MeOH).

Takami, M. *et al*, *Chem. Pharm. Bull.*, 1977, **25**, 981 (*Barbinervic acid*)

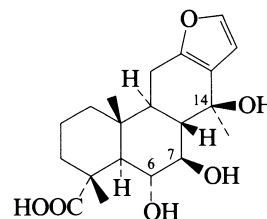
Duh, C.-Y. *et al*, *J. Nat. Prod. (Lloydia)*, 1987, **50**, 63 (*isol*)

Nakatani, M. *et al*, *Bull. Chem. Soc. Jpn.*, 1989, **62**, 469

(*Rotungenoside*)

Nakatani, M. *et al*, *Phytochemistry*, 1989, **28**, 1479 (*Rotungenic acid*)

6,7,14-Trihydroxy-18-vouacapanoic acid T-10196



$C_{20}H_{28}O_6$ M 364.438

(6 α ,7 β ,14 β)-form [59462-55-4]

6 α ,7 β ,14 β -Trihydroxyvinhaticoic acid

6,7-Di-Ac, Me ester: [41370-35-8]. **Methyl 6 α ,7 β -diacetoxy-14-hydroxyvinhaticoate**

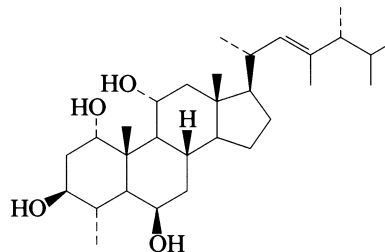
$C_{25}H_{34}O_8$ M 462.539

Isol. from the fruit of *Pterodon pubescens*. Cryst. ($Me_2CO/MeOH$). Mp 100-105°.

Fascio, M. *et al*, *Phytochemistry*, 1976, **15**, 201.

4,23,24-Trimethylcholest-22-ene-1,3,6,11-tetrol T-10197

4,23-Dimethylergost-22-ene-1,3,6,11-tetrol



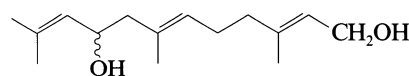
$C_{30}H_{52}O_4$ M 476.738

(1 α ,3 β ,5 α ,6 β ,11 α ,24*R*)-form [145940-74-5] **Acerosterol**

Constit. of *Pseudopterogorgia acerosa*. Needles. Mp 118-120°. $[\alpha]_D - 3.3^\circ$ (c, 0.04 in MeOH).

John, L.M.D. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 144 (*isol*, *pmr*, *cmr*)

3,7,11-Trimethyl-2,6,10-dodecatriene-1,9-diol T-10198



$C_{15}H_{26}O_2$ M 238.369

(2*E*,6*E*,9 ξ)-form

l-Ac:

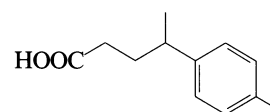
$C_{17}H_{28}O_3$ M 280.406

Constit. of *Achillea pseudoaleppica*. Oil.

Appendino, G. *et al*, *Phytochemistry*, 1993, **34**, 1171 (*isol*, *pmr*, *cmr*)

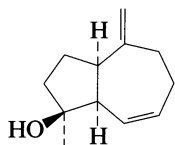
11,12,13-Trinor-1,3,5-bisabolatrien-10-oic acid T-10199

γ ,4-Dimethylbenzenebutanoic acid. 4-(4-Methylphenyl)pentanoic acid. 4-*p*-Tolylpentanoic acid. Dihydro- α -norcurcumenic acid



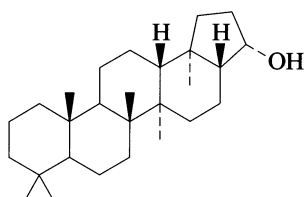
$C_{12}H_{16}O_2$ M 192.257
 Constit. of East Indian sandalwood oil.
 Nikiforov, A. *et al*, *Justus Liebigs Ann. Chem.*, 1990, 119 (*isol*, *pmr*)

11,12,13-Trinor-6,10(14)-guaiadien-4-ol T-10200



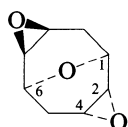
$C_{12}H_{18}O$ M 178.274
(1 α ,4 β ,5 α)-form [151201-77-3] **Dictamnol**
 Constit. of *Dictamnus dasycarpus*. Needles. Mp 72-73°. $[\alpha]_D^{25} + 55^\circ$ (c, 0.1 in MeOH).
 Takeuchi, N. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 923 (*isol*, *pmr*, *cmr*)

22,29,30-Trinor-21-hopanol T-10201



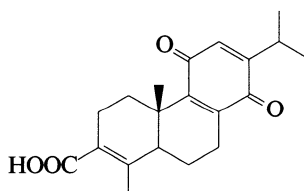
$C_{27}H_{46}O$ M 386.660
21 α -form [145211-81-0] **Glaucanol A**
 Constit. of *Adiantum pedatum*. Cryst. (Et₂O/MeOH). Mp 214.5-215.5°. $[\alpha]_D^{23} + 36.9^\circ$ (CHCl₃).
 Shiojima, K. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 268 (*isol*, *pmr*, *cmr*)

3,8,11-Trioxatetracyclo[4.4.1.0^{2,4}.0^{7,9}]undecane T-10202
 2,3:6,7-Diepoxy-9-oxabicyclo[3.3.1]nonane



$C_8H_{10}O_3$ M 154.165
(1 α ,2 α ,4 α ,6 α ,7 β ,9 β)-form [50267-11-3]
 Mp 144-145°. **(1 α ,2 β ,4 β ,6 α ,7 β ,9 β)-form** [50267-13-5]
 Constit. of the volatile oil of *Amomum kravanh* fruit. Mp 93-94°.
 Portmann, R.E. *et al*, *Helv. Chim. Acta*, 1973, **56**, 1962 (*synth*)
 Zhou, C. *et al*, *CA*, 1992, **117**, 4199d (*isol*)

Triptoquinonic acid A T-10203
 [142950-86-5]



$C_{20}H_{24}O_4$ M 328.407
 Constit. of *Tripterygium regelii*. Golden needles. Mp 181.5-182.5°. $[\alpha]_D^{25} + 121^\circ$ (c, 1.5 in CHCl₃).
 [146389-40-4]
 Shen, J.H. *et al*, *Chin. Chem. Lett.*, 1992, **3**, 113 (*isol*, *pmr*, *cmr*)
 Shishido, K. *et al*, *Tetrahedron Lett.*, 1993, **34**, 339 (*synth*)

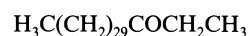
1,2,4-Trithiolane, 9CI T-10204
 1,2,4-Trithiacyclopentane
 [289-16-7]



$C_2H_4S_3$ M 124.252
 Constit. of *Acacia pulchella* and *Parkia speciosa*. Also isol. from the alga *Chondria californica* and the mushroom *Lentinus edodes*. Excretion prod. of *Ochromonas danica*. Component of mushroom flavour. Pale yellow liq. Bp₁₀ 102-103°, Bp₃ 78-79°.

Morita, K. *et al*, *Chem. Pharm. Bull.*, 1967, **15**, 988 (*synth*)
 Tjan, S.B. *et al*, *Tetrahedron*, 1972, **28**, 3489 (*synth*, *ms*)
 Wratten, S.J. *et al*, *J. Org. Chem.*, 1976, **41**, 2465 (*isol*)
 Gmelin, R. *et al*, *Phytochemistry*, 1981, **20**, 2521 (*isol*)
 Holzmann, G. *et al*, *Org. Mass Spectrom.*, 1982, **17**, 165 (*ms*)
 Juettner, F. *et al*, *Phytochemistry*, 1982, **21**, 2185 (*isol*)
 Borseth, D.G. *et al*, *J. Am. Chem. Soc.*, 1984, **106**, 841 (*struct*)
 Chen, C.C. *et al*, *J. Agric. Food Chem.*, 1986, **34**, 830 (*isol*)

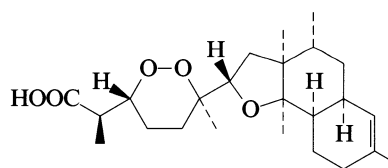
3-Tritriacontanone T-10205
 [79097-23-7]



$C_{33}H_{66}O$ M 478.884
 Constit. of *Hyoscyamus muticus* and *Solanum torvum*. Cryst. (Me₂CO/MeOH). Mp 83°.

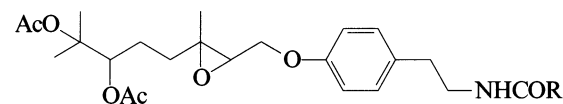
Goswami, A. *et al*, *Phytochemistry*, 1981, **20**, 1315 (*isol*)
 Mahmood, U. *et al*, *Phytochemistry*, 1983, **22**, 167 (*isol*)

Trunculin F T-10206



$C_{24}H_{38}O_5$ M 406.561
 Constit. of *Latrunculia conulosa*. Unstable oil. $[\alpha]_D - 27.7^\circ$ (c, 2.68 in CHCl₃) (Me ester).
 Butler, M.S. *et al*, *Aust. J. Chem.*, 1993, **46**, 1363 (*isol*, *pmr*, *cmr*)

Tubacetine T-10207
 [144442-82-0]



R = Ph

$C_{29}H_{37}NO_7$ M 511.614

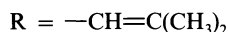
Alkaloid from aerial parts of *Haplophyllum tuberculatum* (Rutaceae). Microcryst. (Et₂O/hexane). Mp 71.7-72.7°. [α]_D²² +12° (c, 0.1 in CHCl₃).

Al-Yahya, M.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 899 (*isol, uv, ir, pmr, cmr, struct*)

Tubasencine**T-10208**

[144425-13-8]

As Tubacetine, T-10207 with

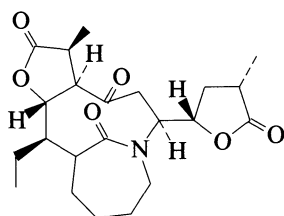
C₂₇H₃₉NO₇ M 489.608

Alkaloid from aerial parts of *Haplophyllum tuberculatum* (Rutaceae). Pale yellow gum. [α]_D²⁵ +12° (c, 0.1 in CHCl₃).

Al-Yahya, M.A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 899 (*isol, uv, ir, pmr, cmr, struct*)

Tuberostemonone**T-10209**

[134822-46-1]



Relative configuration

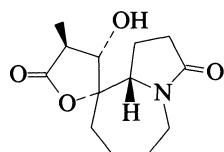
C₂₂H₃₁NO₆ M 405.490

Alkaloid from roots of *Stemona tuberosa* (Stemonaceae). Cubes (Me₂CO). Mp 208-209°. [α]_D⁸ +134.8° (c, 0.1 in CHCl₃).

Lin, W.-H. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 571 (*isol, ir, pmr, cmr, ms, struct*)

Tuberostemospirinine**T-10210**

[142905-26-8]



Relative configuration

C₁₃H₁₉NO₄ M 253.297

Alkaloid from roots of *Stemona tuberosa* (Stemonaceae). Cubes (Me₂CO). Mp 245-246°. [α]_D¹⁶ -30° (c, 0.02 in MeOH).

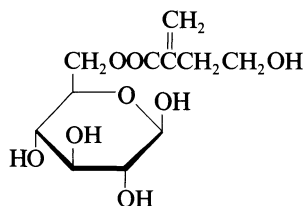
Lin, W.-H. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 571 (*isol, ir, pmr, cmr, ms, struct*)

6-Tuliposide A**T-10211**

Updated Entry replacing T-03038

β -D-Glucopyranose-6-(4-hydroxy-2-methylenebutanoate), 9CI, 8CI

[19870-31-6]

C₁₁H₁₈O₈ M 278.258

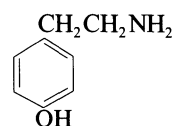
Constit. of the tulip (*Tulipa gesneriana*). Exhibits weak biological activity against *Pythium debaryanum* and *Bacillus subtilis*. Mp 128°. [α]_D²⁰ +45.5° (c, 1.0 in MeOH).

1-O-Cinnamoyl: [73772-93-7]. **Spirarin**C₂₀H₂₄O₉ M 408.404Constit. of the leaves of *Spiraea thunbergii*.Tschesche, R. *et al*, *Chem. Ber.*, 1969, **102**, 2057 (*struct*)Schroeder, C., *CA*, 1973, **79**, 102908a (*use*)Yoshimoto, K. *et al*, *Chem. Pharm. Bull.*, 1980, **28**, 2065 (*cmr*)Tanabe, Y. *et al*, *Yakugaku Zasshi*, 1980, **100**, 355 (*Spirarin*)**Tyramine****T-10212**

Updated Entry replacing T-03078

4-(2-Aminoethyl)phenol, 9CI. 2-(p-Hydroxyphenyl)ethylamine. 4-Hydroxyphenethylamine. Tyrosamine. 4-Hydroxybenzeneethanamine

[51-67-2]

C₈H₁₁NO M 137.181

Widespread biogenic amine, found in several plant spp., such as *Magnolia* and *Desmodium* spp., *Pisum sativum* and *Hordeum vulgare* and in putrefied animal tissues. Found in urine of patients with Parkinson's disease. Also in mescal (*Lophophora williamsii*) and other cacti (Magnoliaceae, Leguminosae, Gramineae, Cactaceae). Also isol. from *Actinodaphne* sp., *Cannabis sativa*, *Piper nigrum* and other plant spp. Mp 164-164.5° (161°). pK_{a1} 9.3; pK_{a2} 10.9 (25°).

▷ SJ5950000.

B,HCl: [60-19-5].

Mp 269°.

N-Ac: [1202-66-0]. N-[2-(4-Hydroxyphenyl)ethyl]acetamide. N-(p-Hydroxyphenethyl)acetamide, 8CI. N-Acetyltyramine

C₁₀H₁₃NO₂ M 179.218

Metab. of pathogenic fungi, mycobacteria, enterobacteria and from *Bombyx mori* at the chrysalis stage. Mp 134-135° (sinters at 128°).

O,N-Di-Ac: [14383-56-3].

C₁₂H₁₅NO₃ M 221.255

Mp 100.5°.

N-Benzoyl: [41859-54-5]. N-[2-(4-Hydroxyphenyl)ethyl]benzamide, 9CI. N-Benzoyltyramine

C₁₅H₁₅NO₂ M 241.289

Alkaloid from *Casimiroa edulis* (Rutaceae). Plates (Et₂O). Mp 161-162°.

N-(4-Hydroxycinnamoyl)(E-): [36417-86-4]. N-p-Coumaroyltyramine

C₁₇H₁₇NO₃ M 283.326

Constit. of A. spp., *Cannabis sativa*, *Allium chinense* and *Vicia faba*.

N-(4-Hydroxy-3-methoxycinnamoyl): [66648-43-9].

MoupinamideC₁₈H₁₉NO₄ M 313.352

Alkaloid from *Aristolochia moupinensis* (Aristolochiaceae) and other plants.

N-Benzoyl, O-(3-methyl-2-butenyl): **Hortiamide**

C₂₀H₂₃NO₂ M 309.407

Alkaloid from roots of *Hortia regia* (Rutaceae). Cryst. Mp 109-111°.

N-Me: [370-98-9]. 4-[2-(Methylamino)ethyl]phenol, 9CI. N-Methyltyramine

C₉H₁₃NO M 151.208

Alkaloid from *Hordeum vulgare*, *Panicum miliaceum*, some *Coryphantha* spp. and several other spp. Also found in mescal (*Lophophora williamsii*), *Trichocereus* spp. and other cacti (Gramineae, Cactaceae). Mp 130-131° (127-128°).

▷ SL8300000.

N-Me, O- α -L-Rhamnopyranoside: N-Methyltyramine O- α -L-rhamnopyranoside

C₁₅H₂₃NO₅ M 297.350

Alkaloid from *Selaginella doederleinii* (Selaginellaceae). Amorph. solid. [α]_D²⁰ -131° (c, 0.3 in MeOH).

N,N-Di-Me: see *Hordeine*, H-01049

Me ether: see 2-(4-Methoxyphenyl)ethylamine, M-00742

Barger, G., *J. Chem. Soc.*, 1909, **95**, 1127, 1722 (*synth*)

Kincl, F.A. *et al*, *J. Chem. Soc.*, 1956, 4163 (*N-Benzoyltyramine*)

Butenandt, A. *et al*, *Arch. Biochem. Biophys.*, 1959, **83**, 76 (*N-Acetyltyramine*)

Kappe, T. *et al*, *J. Med. Chem.*, 1965, **8**, 368 (*uv*)

Boulton, A.A. *et al*, *Nature (London)*, 1967, **215**, 132 (*occur*)

Stuart, K.L. *et al*, *Phytochemistry*, 1971, **10**, 460 (*isol, derivs*)

Milne, G.W. *et al*, *Anal. Chem.*, 1973, **45**, 1952 (*ms*)

Tamura, K. *et al*, *Bull. Chem. Soc. Jpn.*, 1974, **47**, 2682 (*cryst struct*)

Lambert, F. *et al*, *Org. Magn. Reson.*, 1975, **72**, 66 (*pmr*)

Kruger, T.L. *et al*, *J. Org. Chem.*, 1977, **42**, 4161 (*derivs, ms*)

Smith, T.A., *Phytochemistry*, 1977, **16**, 9 (*rev, occur, derivs*)

Doetsch, P.W. *et al*, *J. Chromatogr.*, 1980, **189**, 79 (*occur*)

Xu, L. *et al*, *Yaoxue Xuebao*, 1984, **19**, 48; *CA*, **101**, 107360y (*Moupinamide*)

Chao, L.R. *et al*, *J. Nat. Prod. (Lloydia)*, 1987, **50**, 477 (*N-Methyltyramine rhamnopyranoside*)

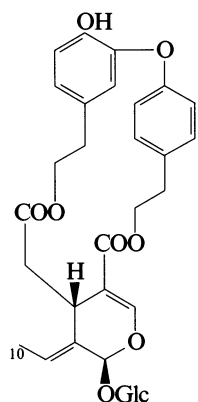
Tinto, W.F. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1676 (*Hortiamide*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th Ed., Van Nostrand-Reinhold, 1992, TOG250.

U

Uhdoside A

Ornoside. Insularoside
[150044-49-8]



$C_{32}H_{36}O_{13}$ M 628.629

Constit. of *Fraxinus uhdei*, *F. insularis* and *F. ornus*.

Amorph. powder. $[\alpha]_D -72^\circ$ (c, 1 in MeOH). Uhdoside A, Ornoside and Insularoside not compared.

10-Hydroxy: Uhdoside B

$C_{32}H_{36}O_{14}$ M 644.628

Constit. of *F. uhdei*. Amorph. powder. $[\alpha]_D^{25} -80^\circ$ (c, 0.28 in MeOH).

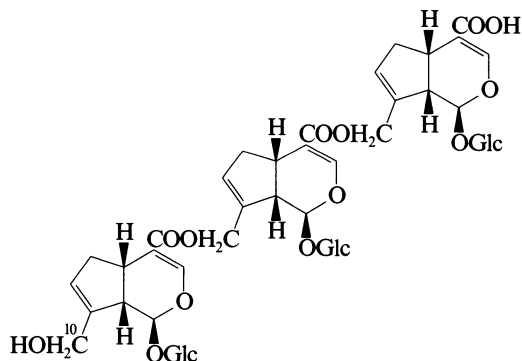
Shen, Y.-C. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1905 (*isol, pmr, cmr*)

Tanahashi, T. *et al*, *Phytochemistry*, 1993, **33**, 397 (*isol, pmr, cmr*)

Iossifova, T. *et al*, *Phytochemistry*, 1993, **34**, 1373 (*isol, pmr, cmr*)

Ulmoidoside A

[127214-79-3]



$C_{48}H_{62}O_{28}$ M 1087.001

Constit. of *Eucommia ulmoides*. Powder. $[\alpha]_D +7.5^\circ$ (H_2O).

Ester trimer of Geniposidic acid, G-00201.

10-Ac: [127214-80-6]. **Ulmoidoside B**

$C_{50}H_{64}O_{29}$ M 1129.038

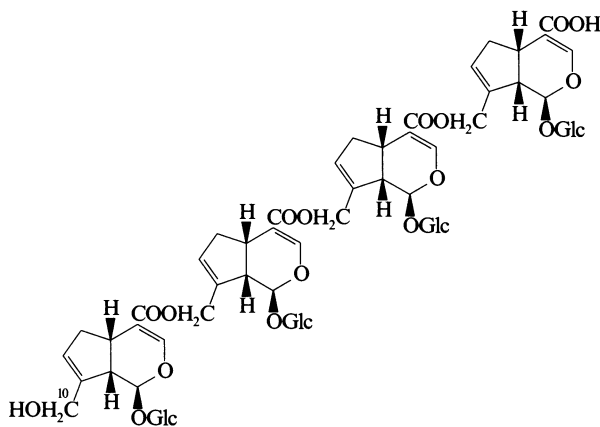
Constit. of *E. ulmoides*. Powder. $[\alpha]_D +8.3^\circ$ (H_2O).

Yahara, S. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 267 (*isol, pmr, cmr*)

U-10001

Ulmoidoside C

[127214-81-7]



$C_{64}H_{82}O_{37}$ M 1443.330

Constit. of *Eucommia ulmoides*. Powder. $[\alpha]_D +9.5^\circ$ (H_2O).

Ester tetramer of Geniposidic acid, G-00201.

10-Ac: [127214-82-8]. **Ulmoidoside D**

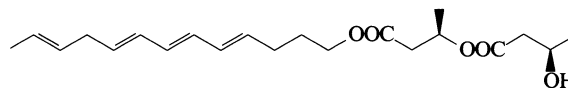
$C_{66}H_{84}O_{38}$ M 1485.367

Constit. of *E. ulmoides*. Powder. $[\alpha]_D +15.4^\circ$ (H_2O).

Yahara, S. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 267 (*isol, pmr, cmr*)

Umbraculumin B

[123444-54-2]



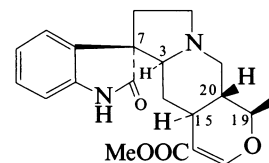
$C_{21}H_{32}O_5$ M 364.481

Isol. from the skin extracts of the mollusc *Umbraculum mediterraneum*.

Cimino, G. *et al*, *Tetrahedron Lett.*, 1989, **30**, 1147 (*isol, struct*)

Uncarine

Updated Entry replacing U-00045



(3*S*,7*S*,15*S*,19*R*,20*R*)-form

$C_{21}H_{24}N_2O_4$ M 368.432

For other stereoisomers see Mitraphylline, M-10082.

(3*S*,7*S*,15*S*,19*R*,20*R*)-form [6899-73-6] **Uncarine A.**

Isoformosanine

Alkaloid from *Uncaria* spp. and *Ourouparia formosana* (Nauclaceae). Amorph. Mp 120-130°. $[\alpha]_D +106.5^\circ$.

B,HCl: Needles + $\frac{1}{2}$ H_2O . Mp 231° dec.

N-Ac:

$C_{23}H_{26}N_2O_5$ M 410.469

Mp 165°.

U-10003

U-10004

U-10005

(3S,7R,15S,19R,20R)-form [6883-35-8] **Uncarine B.***Formosanine*Alkaloid from *U. spp.* and *O. formosana* (Nauclaceae).Plates or needles. Mp 215-216°. $[\alpha]_D^{25} + 91^\circ$ (CHCl₃).*B,HCl*: Mp 227-228° dec.*N-Ac*:C₂₃H₂₆N₂O₅ M 410.469

Mp 165°.

(3S,7R,15S,19S,20S)-form [5629-60-7] **Uncarine C.***Isopeciophylline. Pteropodine*Alkaloid from *Mitragyna* and *U. spp.* (Nauclaceae).Fine needles (C₆H₆). Mp 212-213°. $[\alpha]_D^{25} - 109^\circ$ (CHCl₃).*Picrate*: Mp 143-144°.*B,MeI*: Mp 209-211°. $[\alpha]_D^{25} - 149^\circ$.*N-Oxide: Pteropodine N-oxide*C₂₁H₂₄N₂O₅ M 384.431Isol. from *U. bernaysii*, *U. orientalis* and *U. longiflora*

(Nauclaceae). Identified by tlc only.

*Parent acid: Pteropodic acid*C₂₀H₂₂N₂O₄ M 354.405Alkaloid from stems of *U. sinensis* (Nauclaceae). Mp227-229° dec. $[\alpha]_D^{25} - 126.0^\circ$ (c, 0.1 in MeOH).**(3R,7S,15S,19S,20S)-form** [4697-68-1] **Uncarine D.***Speciophylline*Alkaloid from *M.* and *U. spp.* Needles (EtOAc orEt₂O). Mp 183-184°. $[\alpha]_D^{25} + 91^\circ$ (c, 0.21 in CHCl₃).*Picrate*: Cryst. (EtOH). Mp 215°.*N-Oxide: Speciophylline N-oxide*C₂₁H₂₄N₂O₅ M 384.431Alkaloid from *U. bernaysii*, *U. orientalis*, *U. longiflora*and *M. parvifolia* (Nauclaceae). Identified by tlc only.**(3S,7S,15S,19S,20S)-form** [5171-37-9] **Uncarine E.***Isopteropodine*Alkaloid from *M. parvifolia* and *U. spp.* (Nauclaceae).Also isol. from the marine mollusk *Nerita albicilla*.Needles (C₆H₆ or MeOH). Mp 209-211°. $[\alpha]_D^{25} - 111^\circ$ (CHCl₃).*B,HCl*: Mp 181-183°. $[\alpha]_D^{25} - 124^\circ$.*B,MeI*: Prisms (Me₂CO aq.). Mp 217-219°. $[\alpha]_D^{25} - 149.5^\circ$

(EtOH).

*N-Oxide: Isopteropodine N-oxide*C₂₁H₂₄N₂O₅ M 384.431Isol. from *U. bernaysii*, *U. orientalis* and *U. longiflora*

(Nauclaceae). Identified by tlc only.

*Parent acid: Isopteropodic acid*C₂₀H₂₂N₂O₄ M 354.405Alkaloid from stems of *U. sinensis* (Nauclaceae). Mp223-224° dec. $[\alpha]_D^{25} - 130.2^\circ$ (c, 0.04 in MeOH).**(3R,7R,15S,19S,20S)-form** [14019-66-0] **Uncarine F**Alkaloid from *M.* and *U. spp.* (Nauclaceae). Amorph. $[\alpha]_D^{25} + 85^\circ$ (CHCl₃).*N-Oxide: Uncarine F N-oxide*C₂₁H₂₄N₂O₅ M 384.431Isol. from *M. parvifolia*, *U. bernaysii* and *U. orientalis*

(Nauclaceae). Identified by tlc only.

Chan, K.C. *et al*, *J. Chem. Soc. C*, 1966, 2245 (*isol, pmr, ir*)Shamma, M. *et al*, *J. Am. Chem. Soc.*, 1967, **89**, 1739 (*stereochem, pmr*)Beecham, A.F. *et al*, *Aust. J. Chem.*, 1968, **21**, 491 (*isol, pmr, abs config*)Winterfeldt, E. *et al*, *Chem. Ber.*, 1969, **102**, 3558 (*synth*)Phillipson, J.D. *et al*, *Phytochemistry*, 1973, **12**, 1481, 2791; 1975, **14**, 1855 (*isol, ms, pmr, oxides*)Shellard, E.J. *et al*, *Planta Med.*, 1974, **25**, 172 (*oxide*)Ban, Y. *et al*, *Chem. Pharm. Bull.*, 1976, **24**, 736 (*synth*)Martin, G.E. *et al*, *J. Nat. Prod. (Lloydia)*, 1986, **49**, 406 (*isol, uv, ir, pmr, cmr, ms*)Liu, H.-M. *et al*, *Phytochemistry*, 1993, **33**, 707 (*Pteropodic acid, Isopteropodic acid*)**Undecanedioic acid****U-10006**

[1852-04-6]

HOOC(CH₂)₉COOHC₁₁H₂₀O₄ M 216.277Isol. from leaves and stems of *Anthyllis sericea*. Cryst.(CHCl₃/C₆H₆ or H₂O). Mp 111-112.5°.*Mono-Me ester*:C₁₂H₂₂O₄ M 230.303Mp 44-46°. Bp₂ 165-168°.*Di-Me ester*: [4567-98-0].C₁₃H₂₄O₄ M 244.330Mp 17°. Bp₂ 123-124.5°.*Mono-Et ester*:C₁₃H₂₄O₄ M 244.330Mp 43-44°. Bp₃ 176-178°.*Di-Et ester*: [22543-29-9].C₁₅H₂₈O₄ M 272.384Bp₆ 155-158°, Bp₂ 146°.*Dichloride*:C₁₁H₁₈Cl₂O₂ M 253.167Bp₂₂ 191-192°.Walker, J. *et al*, *J. Chem. Soc.*, 1901, **79**, 1191 (*synth*)v. Braun, J. *et al*, *Ber.*, 1912, **45**, 1930, 1975 (*synth*)Buu-Hoi, Ng. Ph. *et al*, *C. R. Hebd. Seances Acad. Sci.*, 1955, **240**, 442 (*synth*)*Org. Synth.*, *Coll. Vol.*, 4, 1963, 510, 635 (*synth*)Holmes, J.L. *et al*, *Org. Mass Spectrom.*, 1970, **3**, 1505 (*ms*)Crowell, E.P. *et al*, *J. Chromatogr. Sci.*, 1971, **9**, 296 (*chromatog*)Marco, J.A. *et al*, *Phytochemistry*, 1978, **17**, 1438 (*isol*)**1,11-Undecanediol, 9CI****U-10007**

[765-04-8]

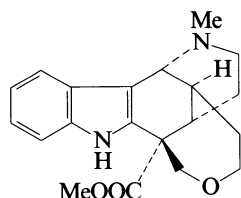
HOCH₂(CH₂)₉CH₂OHC₁₁H₂₄O₂ M 188.309Cryst. (C₆H₆). Mp 61° (57-59°).*Bisphenylurethane*: Mp 132-133°.*Di-Ph ether*: [141620-04-4]. 1,1'-[1,11-Undecanediylbis(oxy)]*bisbenzene, 9CI. 1,11-Diphenoxyundecane*C₂₃H₃₂O₂ M 340.505Isol. from the leaves of *Arachis hypogaea* infected with*Puccinia arachidis*. Phytoalexin.Colonge, J. *et al*, *Bull. Soc. Chim. Fr.*, 1959, 1248 (*synth*)Dulou, R. *et al*, *Bull. Soc. Chim. Fr.*, 1959, 1362 (*synth*)Tolyanova, S.G. *et al*, *Zh. Obshch. Khim.*, 1963, **34**, 565 (*synth*)Reinheckel, H., *CA*, 1965, **62**, 8990 (*synth*)Rao, P.V.S. *et al*, *Oleagineux*, 1991, **46**, 501; *CA*, **116**, 252152 (*di-Ph ether*)**6-Undecen-2-ol****U-10008***Nostrenol*C₁₁H₂₂O M 170.294**(2R,6Z)-form** [120926-44-5]Constit. of the thoracic gland of *Euroleon nostras* and *Grocus bore*.

[67233-89-0, 67233-90-3, 120876-12-2, 120926-45-6]

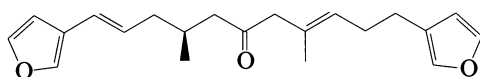
Baekstroem, P. *et al*, *J. Chem. Ecol.*, 1989, **15**, 61 (*isol, synth*)

Undulifoline

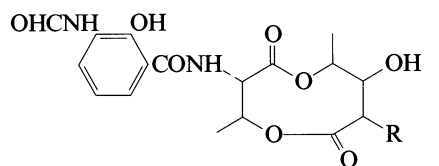
[142750-31-0]

 $C_{20}H_{24}N_2O_3$ M 340.421Alkaloid from the stem bark of *Alstonia undulifolia* (Apocynaceae). $[\alpha]_D^{25} -33^\circ$ (c, 0.16 in $CHCl_3$).Massiot, G. *et al*, *Phytochemistry*, 1992, **31**, 1078 (*isol*, *uv*, *ir*, *pmr*, *cmr*, *ms*, *struct*)**Untenospongins C**

[149298-04-4]

 $C_{21}H_{26}O_3$ M 326.435Constit. of *Hippospongia* sp. Oil. $[\alpha]_D^{20} -9.3^\circ$ (c, 1 in $CHCl_3$).Kobayashi, J. *et al*, *Chem. Pharm. Bull.*, 1993, **41**, 381 (*isol*, *pmr*, *cmr*)**Urauchimycin A**

[148163-07-9]

R = $CH_2CH(CH_3)CH_2CH_3$ $C_{22}H_{30}N_2O_8$ M 450.488

Macrolide antibiotic. Related to Antimycin A, A-02511.

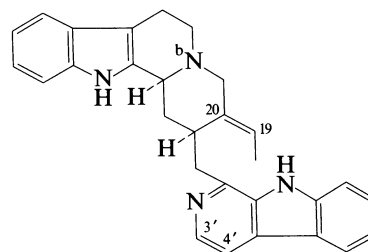
Prod. by *Streptomyces* sp. Ni-80. Antifungal agent. $[\alpha]_D^{26} +46.7^\circ$ (c, 0.03 in MeOH).Imamura, N. *et al*, *J. Antibiot.*, 1993, **46**, 241 (*isol*, *struct*, *props*)**Urauchimycin B**

[148163-08-0]

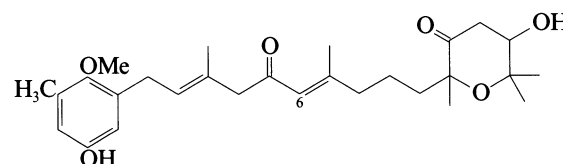
As Urauchimycin A, U-10011 with

R = $CH_2CH_2CH(CH_3)_2$ $C_{22}H_{30}N_2O_8$ M 450.488

Macrolide antibiotic. Related to Antimycin A, A-02511.

Prod. by *Streptomyces* sp. Ni-80. Antifungal agent. $[\alpha]_D^{26} +50^\circ$ (c, 0.1 in MeOH).Imamura, N. *et al*, *J. Antibiot.*, 1993, **46**, 241 (*isol*, *struct*, *props*)**U-10009****Usambarensine**Updated Entry replacing U-00170
[36150-14-8] $C_{29}H_{28}N_4$ M 432.567Alkaloid from the roots of *Strychnos usambarensis* (Strychnaceae). Muscarinic receptor antagonist in isolated rat intestine. Powder. N^b -Me: [36150-17-1]. N^b -Methylusambarensine $C_{30}H_{31}N_4^+$ M 447.602 (ion)Quaternary alkaloid from *S. usambarensis* (Strychnaceae). $3',4'$ -Dihydro: see *Tchibangensine*, T-00156 $19,20$ -Dihydro (20β -H): **19,20-Dihydrousambarensine** $C_{29}H_{30}N_4$ M 434.583Alkaloid from root bark of *S. potatorum* (Strychnaceae).Angenot, L. *et al*, *J. Pharm. Belg.*, 1971, **26**, 585; *CA*, **76**, 72694w (*isol*, *struct*, *derivs*)Dideberg, O. *et al*, *Acta Crystallogr., Sect. B*, 1975, **31**, 1571 (*cryst struct*)Coune, C.A. *et al*, *Phytochemistry*, 1980, **19**, 2009 (*cmr*)Massiot, G. *et al*, *Phytochemistry*, 1992, **31**, 2873 (*19,20-Dihydrousambarensine*)**U-10011****Usneoidol E**

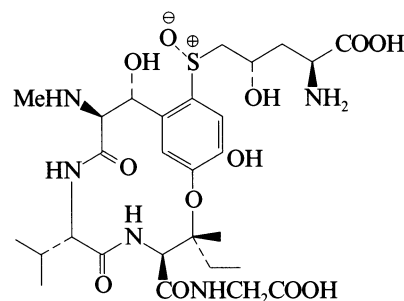
Updated Entry replacing U-00093

 $C_{28}H_{40}O_6$ M 472.620Constit. of *Cystoseira usneoides*. $[\alpha]_D^{24} -16.47^\circ$ (c, 0.17 in $CHCl_3$).**6Z-Isomer: Usneoidol Z** $C_{28}H_{40}O_6$ M 472.620Constit. of *C. usneoides*. $[\alpha]_D^{24} +3.66^\circ$ (c, 0.24 in $CHCl_3$).

[142902-56-5, 143004-42-6]

Urones, J.G. *et al*, *Phytochemistry*, 1992, **31**, 2105 (*isol*, *pmr*, *cmr*)**U-10014****Ustiloxin**

[141044-51-1]

**U-10015**

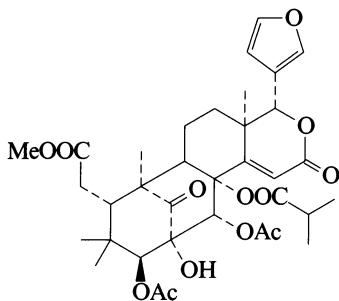
$C_{28}H_{43}N_5O_{12}S$ M 673.740

Cyclic peptide. Isol. from the false smut balls caused by *Ustilagoidea vires* on rice. Phytotoxin and mycotoxin. Needles + $2\frac{1}{2} H_2O$ (MeOH aq.). Mp 195° dec. $[\alpha]_D^{20} + 14.5^\circ$ (c, 0.55 in H_2O).

Koiso, Y. *et al*, *Tetrahedron Lett.*, 1992, 33, 4157 (isol, pmr, cmr, struct)

Utilin B

U-10016



$C_{35}H_{44}O_{13}$ M 672.725

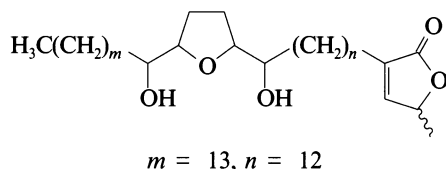
Constit. of *Etandrophragma utile*. Cryst. Mp 145-147°. $[\alpha]_D^{20} - 24.8^\circ$ (c, 0.2 in $CHCl_3$).

Daniewski, W.M. *et al*, *Phytochemistry*, 1993, 33, 1534 (isol, pmr, cmr, cryst struct)

Uvariamicin I

U-10017

[132309-09-2]



$C_{37}H_{68}O_5$ M 592.941

Isol. from the bark of *Uvaria narum*.

Hisham, A. *et al*, *Tetrahedron Lett.*, 1990, 31, 4649 (isol)

Uvariamicin II

U-10018

Reticulatacin

[132309-10-5]

As Uvariamicin I, U-10017 with

$m = 11, n = 14$

$C_{37}H_{68}O_5$ M 592.941

Data refers to *Reticulatacin* whose relative stereochem. is also known. Stereochem. identity of Uvariamicin with *Reticulatacin* is not established. Isol. from the bark of *Annona reticulata* and *Uvaria narum*. Fine needles. Mp 80-80.5°. $[\alpha]_D^{20} + 26^\circ$ (c, 0.005 in $CHCl_3$).

[134876-18-9]

Hisham, A. *et al*, *Tetrahedron Lett.*, 1990, 31, 4649 (isol)

Saad, J.M. *et al*, *Tetrahedron*, 1991, 47, 2751 (*Reticulatacin*)

Uvariamicin III

U-10019

[132309-11-6]

As Uvariamicin I, U-10017 with

$m = 9, n = 16$

$C_{37}H_{68}O_5$ M 592.941

Acetogenin. Isol. from the bark of *Uvaria narum*.

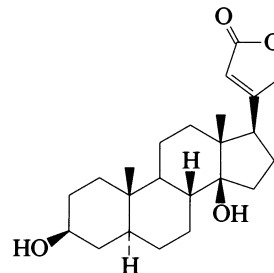
Hisham, A. *et al*, *Tetrahedron Lett.*, 1990, 31, 4649 (isol)

Uzaringenin

U-10020

Updated Entry replacing U-00199

3β,14β-Dihydroxy-5α-card-20(22)-enolide. *Odorigenin B* [466-09-1]



$C_{23}H_{34}O_4$ M 374.519

Aglycone from uzara root (*Gomphocarpus* spp.). Also isol. from *Asclepias*, *Isoplexis*, *Nerium*, *Pergularia*, *Xysmalobium*, *Mallotus* spp. and others. Cardiotonic agents. Cryst. (MeOH/ CH_2Cl_2). Mp 246-249°. $[\alpha]_D^{20} + 14^\circ$ ($CHCl_3$).

▷ YV1950000.

3-O- $[\beta$ -D-Glucopyranosyl-(1→4)- β -D-fucoside]: [17179-38-3].

Cheiroside A. *Cheiroside H*

$C_{35}H_{54}O_{13}$ M 682.804

Constit. of *Cheiranthus cheiri*. Cryst. Mp 293°. $[\alpha]_D^{20} - 24.9^\circ$ (Py).

▷ LD₅₀ (cat, ivn) 0.681 mg/kg. FH4770800.

3- β -D-Allomethyloside: [3080-19-1]. *Ascleposide*

$C_{29}H_{44}O_8$ M 520.662

Constit. of *Xysmalobium undulatum* and from *Asclepias glaucophylla*. Cryst. (MeOH/ Et_2O). Mp 257-263°. $[\alpha]_D^{20} - 27.1^\circ$ (MeOH).

▷ CI7560000.

3-O-(6-Deoxy-3-O-methyl- α -L-glucopyranoside): [34302-25-5]. *Thevefoline*. *Uzaringenin thevetoside*

$C_{30}H_{46}O_8$ M 534.689

Constit. of *Thevetia peruviana*. Cryst. (EtOH). Mp 260°. $[\alpha]_D^{20} - 66^\circ$ (MeOH).

▷ LD₅₀ (cat, ivn) 0.28 mg/kg. FH4906000.

3-O- β -D-Sarmentoside: *Madagascoside*

$C_{30}H_{46}O_7$ M 518.689

From *Roupellina boivinii*. Cryst. Mp 196-198°, Mp 219-222° (double Mp). $[\alpha]_D^{25} - 23.3^\circ$ (c, 1.1 in MeOH).

3-O- β -D-Glucopyranoside: *Desglucouzarin*

$C_{29}H_{44}O_9$ M 536.661

Isol. from *A. syriaca* and *A. mellodora*. Cryst. + $1H_2O$ (EtOH aq.). Mp 260-272°. $[\alpha]_D^{23} - 44.1^\circ$ (c, 1 in Py).

3-O- $[\beta$ -D-Glucopyranosyl-(1→4)- β -D-glucopyranoside]: [41628-29-9].

$C_{35}H_{54}O_{14}$ M 698.803

Constit. of *Asclepias albicans*. Amorph.

3-O- $[\beta$ -D-Glucopyranosyl-(1→6)- β -D-glucopyranoside]:

[20231-81-6]. *Uzarin*

$C_{35}H_{54}O_{14}$ M 698.803

Constit. of *Xysmalobium undulatum*, *Pachycarpus schinzianus*, *Asclepias curassavica* and *Gomphocarpus* sp. (Uzara root). Cryst. (MeOH) or prisms (Py). Mp 266-270°. $[\alpha]_D^{20} - 27^\circ$ (c, 1.075 in Py).

3-O- $[\beta$ -D-Glucopyranosyl-(1→6)- β -D-glucopyranosyl-(1→6)- β -D-glucopyranoside]: [88235-61-4]. *Uzarioside*

$C_{41}H_{64}O_{19}$ M 860.945

Constit. of uzara root. Amorph. $[\alpha]_D^{20} - 10^\circ$ (c, 1 in EtOH).

3-O-(6-Deoxy-3-O-methylmannopyranoside): *Neriifoside*

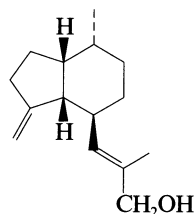
$C_{30}H_{46}O_8$ M 534.689

- Constit. of the *Thevetia nerifolia*. Needles. Mp 210-212°.
- 3,14-Diepimer: *Urezigenin*
Aglycone from Urezin. Mp 270-275° (238-239°). $[\alpha]_D^{25} + 4.1^\circ$ (CHCl₃), $[\alpha]_D^{26} + 16.7^\circ$ (EtOH).
- 3,14-Diepimer, 3-O-[β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]: *Urezin*
C₃₅H₅₄O₁₄ M 698.803
From uzara root. Cryst. (MeOH). Mp 185-192°. $[\alpha]_D^{25} - 4.8^\circ$ (c, 1.04 in EtOH).
- 3-O-D-Boivinoside: *Zettoside*
C₂₉H₄₄O₇ M 504.662
Isol. from *R. boivinii*. Mp 253-256°. $[\alpha]_D^{26} - 27.9^\circ$ (MeOH). Poss. identical with a uzarigenin 2-deoxyhexoside with similar props. Isol. from *Digitalis canariensis* (Rees *et al*, 1961).
- 3-O-Digitoxoside: *Uzarigenin digitoxoside*
C₂₉H₄₄O₇ M 504.662
Isol. from *Digitalis canariensis*. Needles (Me₂CO/Et₂O). Mp 241-244°. $[\alpha]_D^{22} - 17.2^\circ$ (c, 1.1 in CHCl₃).
- 3-O-Diginoside: [58407-69-5]. *Odoside B*
C₃₀H₄₆O₇ M 518.689
Isol. from *Nerium odorum*. Needles (Me₂CO/Et₂O). Mp 150°, Mp 200° (double Mp). $[\alpha]_D^{25} - 20^\circ$ (CHCl₃).
- 3-O-[β -D-Glucopyranosyl(1 \rightarrow 4)-D-diginoside]: *Odorobioside K*
C₃₆H₅₆O₁₂ M 680.831
Isol. from *N. odorum*. Platelets (MeOH aq.). Mp 208°, Mp 222-260° (double Mp). $[\alpha]_D^{22} - 36^\circ$ (dioxan).
- 3-O-[β -D-Glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl(1 \rightarrow 4)-D-diginoside]: *Odoside K*
C₄₂H₆₆O₁₇ M 842.973
Isol. from *N. odorum*. Platelets (MeOH aq.). Mp 242-265°. $[\alpha]_D^{25} - 37.6^\circ$ (MeOH).
- 17-Epimer: [663-97-8]. *Allouzarigenin. 17-Isouzarigenin*
Cryst. (Me₂CO/hexane). Mp 227-229°. $[\alpha]_D^{20} + 16^\circ$ (c, 0.5 in MeOH).
- 5-Epimer: see *Digitoxigenin, D-01096*
- 17-Epimer, 3-O-D-Sarmentoside: *Allomadagascoside. 17 β H-Madagascoside*
C₃₀H₄₆O₇ M 518.689
Isol. from *R. boivinii*. Needles (MeOH/Et₂O). Mp 184-190°, Mp 210-212° (double Mp). $[\alpha]_D^{25} - 6.7^\circ$ (MeOH).
- 17-Epimer, 3-O-D-Boivinoside: *Allozettoside. 17 β H-Zettoside*
C₂₉H₄₄O₇ M 504.662
Isol. from *R. boivinii*. Platelets (MeOH/Et₂O). Mp 135-138°. $[\alpha]_D^{26} - 12.1^\circ$ (MeOH).
- 3-Epimer: 3-epi-Uzarigenin
Aglycone from oxyline. Cryst. Mp 229-232°. $[\alpha]_D^{25} + 16.9^\circ$ (c, 0.1 in CHCl₃).
- 3-Epimer, 3-O- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-thevetopyranosyl-(1 \rightarrow 4)- β -D-cymaropyranosyl-(1 \rightarrow 4)- β -D-digitoxopyranoside: [132741-68-5]. *Oxyline*
C₅₀H₈₀O₁₇ M 953.172
Constit. of *Oxystelma esculentum*. Cryst. Mp 146-150°. $[\alpha]_D^{25} + 4.2^\circ$ (c, 0.11 in MeOH).
- 3-O-[6-(4-Hydroxycinnamoyl)- β -D-glucopyranoside]: 6'-O-(4-Hydroxycinnamoyl)desglucouzarin
C₃₈H₅₀O₁₁ M 682.806
Constit. of *Asclepias asperula* and *A. linaria*. Cryst. Mp 223-224°.
- 3-O-[β -D-Xylopyranosyl-(1 \rightarrow 4)-O- β -D-digitalopyranoside]: *Oxystelmoside*
C₃₅H₅₄O₁₂ M 666.804
Constit. of *Oxystelma esculentum*. Cryst. Mp 105-108°. $[\alpha]_D^{25} + 3.24^\circ$ (c, 0.21 in CHCl₃).
- Tschesche, R. *et al*, *Chem. Ber.*, 1952, **85**, 1042 (*isol, Uzaroside, Urezin*)
Moore, J.A. *et al*, *Helv. Chim. Acta*, 1954, **37**, 755 (*Cheiroside A*)
Rittel, W. *et al*, *Helv. Chim. Acta*, 1954, **37**, 1361 (*Odosides*)
Karitzkes, A. *et al*, *Helv. Chim. Acta*, 1959, **42**, 1502 (*Urezigenin*)
Russel, J.H. *et al*, *Helv. Chim. Acta*, 1961, **44**, 1293, 1315 (*Madagascoside, Zettoside*)
Rees, R. *et al*, *Helv. Chim. Acta*, 1961, **44**, 1607 (*isol, Uzarigenin digitoxoside*)
Bauer, S. *et al*, *Collect. Czech. Chem. Commun.*, 1962, **27**, 872 (*Desglucouzarin*)
Kuritzkes, A.M. *et al*, *Helv. Chim. Acta*, 1963, **46**, 8 (*Ascleposide*)
Okada, M. *et al*, *Steroids*, 1965, **6**, 645 (*synth*)
Freitag, H. *et al*, *Helv. Chim. Acta*, 1967, **50**, 1336 (*Cheiroside A*)
Sierp, D. *et al*, *Helv. Chim. Acta*, 1970, **53**, 27 (*Ascleposide*)
Frèrejacque, M. *et al*, *C. R. Hebd. Seances Acad. Sci. Ser. D*, 1971, **272**, 2620 (*Thevefoline*)
Kamano, Y. *et al*, *J. Chem. Soc., Perkin Trans. 1*, 1975, 1972 (*synth*)
Koike, K. *et al*, *Chem. Pharm. Bull.*, 1980, **28**, 401 (*isol*)
Srivastava, S. *et al*, *Phytochemistry*, 1991, **30**, 301 (*Oxyline*)
Martin, R.A. *et al*, *Phytochemistry*, 1991, **30**, 3935 (6'-4-Hydroxycinnamoyl)desglucouzarin)
Rodriguez-Hahn, L. *et al*, *Phytochemistry*, 1991, **30**, 3941 (6'-4-Hydroxycinnamoyl)desglucouzarin)
Siddiqui, S. *et al*, *Phytochemistry*, 1992, **31**, 3541 (*isol, pmr, cmr*)
Srivastava, S. *et al*, *Phytochemistry*, 1993, **32**, 1019 (*Oxystelmoside*)

V

4(15),7(11)-Valerenadien-12-ol

V-10001



$C_{15}H_{24}O$ M 220.354
(1 β ,5 β ,10 α ,7(11)*E*)-form

12-Aldehyde: [76985-39-2]. 4(15),7(11)-Valerenadien-12-al.

β -Valerenal

$C_{15}H_{22}O$ M 218.338

Constit. of *Zexmenia gnaphaloides*. Oil.

(1 β ,5 β ,10 α ,7(11)*E*)-form

10-Epi- β -valerenol

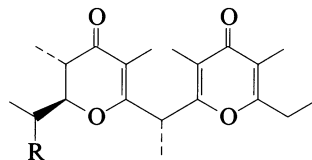
Constit. of *Z. gnaphaloides*. Oil.

Bohlmann, F. *et al*, *Chem. Ber.*, 1980, **113**, 240 (*isol*, *pmr*)

Vallartanone A

[122947-98-2]

V-10002



R = CH₃

$C_{21}H_{30}O_4$ M 346.466

Metab. of the pulmonate mollusc *Siphonaria maura*. Cryst.

Mp 69°. [α]_D -176° (c, 0.68 in CHCl₃).

Manker, D.C. *et al*, *J. Org. Chem.*, 1989, **54**, 5374 (*isol*, *pmr*, *cmr*)

Vallartanone B

[122947-99-3]

V-10003

As Vallartanone A, V-10002 with

R = H

$C_{20}H_{28}O_4$ M 332.439

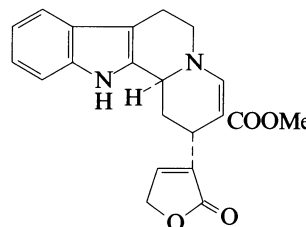
Metab. of the pulmonate mollusc *Siphonaria maurea*. Oil.

[α]_D -133° (c, 0.59 in CHCl₃).

Manker, D.C. *et al*, *J. Org. Chem.*, 1989, **54**, 5374 (*isol*, *pmr*, *cmr*)

Vallesiachotamine lactone

V-10004



$C_{21}H_{20}N_2O_4$ M 364.400

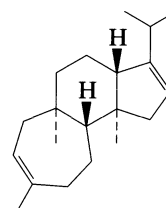
Alkaloid from aerial parts of *Cephaelis dichroa* (Rubiaceae).

Solis, P.N. *et al*, *Phytochemistry*, 1993, **33**, 1117 (*isol*, *w*, *ir*, *pmr*, *ms*, *struct*)

2,13-Valparadiene

[144106-88-7]

V-10005



$C_{20}H_{32}$ M 272.473

Constit. of *Halimium viscosum*. Oil. [α]_D +36.7° (c, 1.2 in CHCl₃).

Urones, J.G. *et al*, *Tetrahedron*, 1993, **49**, 4051 (*isol*, *pmr*, *cmr*)

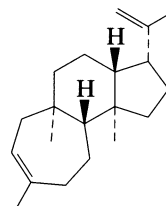
2,15-Valparadiene

Updated Entry replacing V-00052

Valparene

[130756-32-0]

V-10006



$C_{20}H_{32}$ M 272.473

Constit. of *Halimium viscosum* and *H. verticillatum*. Oil.

[α]_D²² +11.42° (c, 1.16 in CHCl₃).

2 β ,3 β -Epoxide: [130774-09-3]. 2,3-Epoxy-15-valparene

$C_{20}H_{32}O$ M 288.472

Constit. of *H. viscosum*. Cryst. (hexane). Mp 129-130°.

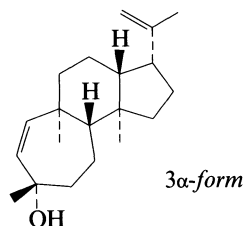
[α]_D -23.9° (c, 2.4 in CHCl₃).

Urones, J.G. *et al*, *Phytochemistry*, 1993, **34**, 567 (*isol*, *pmr*, *cmr*)

Urones, J.G. *et al*, *Tetrahedron*, 1993, **49**, 4051 (*isol*, *pmr*, *cmr*, *abs config*)

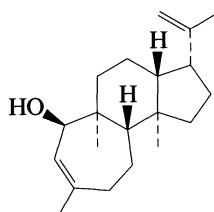
1,5-Valparadien-3-ol

V-10007

Constit. of *Halimium viscosum*. $[\alpha]_D^{22} +0.5^\circ$ (c, 1.7 in CHCl_3).Urones, J.G. et al, *Phytochemistry*, 1993, **34**, 747 (isol, pmr, cmr) $\text{C}_{20}\text{H}_{32}\text{O}$ M 288.472**3 α -form** [144177-33-3]Constit. of *Halimium viscosum*. Oil. $[\alpha]_D -34.2^\circ$ (c, 1.4 in CHCl_3).**3 β -form** [144106-85-4]Constit. of *H. viscosum*. Oil. $[\alpha]_D -60.9^\circ$ (c, 1.2 in CHCl_3).Urones, J.G. et al, *Tetrahedron*, 1993, **49**, 4051 (isol, pmr, cmr)

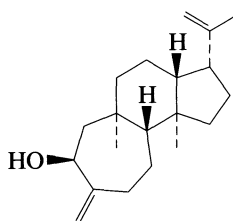
2,15-Valparadien-1-ol

V-10008

 $\text{C}_{20}\text{H}_{32}\text{O}$ M 288.472**1 β -form** [144106-86-5]Constit. of *Halimium viscosum*. Oil. $[\alpha]_D -1.4^\circ$ (c, 0.7 in CHCl_3).Urones, J.G. et al, *Tetrahedron*, 1993, **49**, 4051 (isol, pmr, cmr)

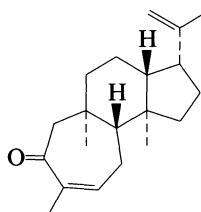
3(19),15-Valparadien-2-ol

V-10009

 $\text{C}_{20}\text{H}_{32}\text{O}$ M 288.472**2 β -form** [131916-99-9]Constit. of *Halimium viscosum*. Needles (EtOAc/hexane). Mp 129-130°. $[\alpha]_D +23.6^\circ$ (c, 0.7 in CHCl_3).Urones, J.G. et al, *Tetrahedron*, 1993, **49**, 4051 (isol, pmr, cmr)

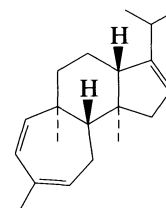
3,15-Valparadien-2-one

V-10010

 $\text{C}_{20}\text{H}_{30}\text{O}$ M 286.456

1,3,13-Valparatriene

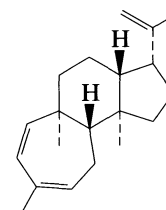
V-10011

 $\text{C}_{20}\text{H}_{30}$ M 270.457Constit. of *Halimium viscosum*. Oil. $[\alpha]_D^{22} +24.3^\circ$ (c, 0.43 in CHCl_3).Urones, J.G. et al, *Phytochemistry*, 1993, **34**, 747 (isol, pmr, cmr)

1,3,15-Valparatriene

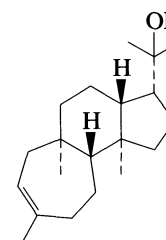
V-10012

[144106-84-3]

 $\text{C}_{20}\text{H}_{30}$ M 270.457Constit. of *Halimium viscosum*. Oil. $[\alpha]_D +10.3^\circ$ (c, 0.8 in CHCl_3).Urones, J.G. et al, *Tetrahedron*, 1993, **49**, 4051 (isol, pmr, cmr)

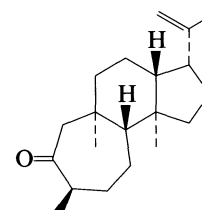
2-Valpären-15-ol

V-10013

 $\text{C}_{20}\text{H}_{34}\text{O}$ M 290.488Constit. of *Halimium viscosum*. Oil. $[\alpha]_D -5.0^\circ$ (c, 0.5 in CHCl_3).Urones, J.G. et al, *Tetrahedron*, 1993, **49**, 4051 (isol, pmr, cmr)

15-Valpären-2-one

V-10014

 $\text{C}_{20}\text{H}_{32}\text{O}$ M 288.472

3 α H-form [130756-34-2] *Valparone*

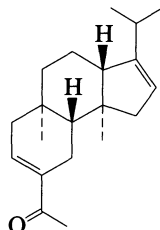
Constit. of *Halimium viscosum*. Needles (hexane). Mp 76-77°. $[\alpha]_D^{25} +11.3^\circ$ (c, 1.2 in CHCl_3).

Urones, J.G. *et al*, *Tetrahedron*, 1993, **49**, 4051 (*isol*, *pmr*, *cmr*)

2(4),13-Valparoladien-3-one

2-(3 \rightarrow 4)-Abeo-2(4),13-valparadien-3-one

V-10015



$\text{C}_{20}\text{H}_{30}\text{O}$ M 286.456

Constit. of *Halimium viscosum*. $[\alpha]_D^{22} +13.5^\circ$ (c, 1.8 in CHCl_3).

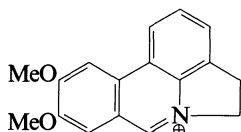
Urones, J.G. *et al*, *Phytochemistry*, 1993, **34**, 747 (*isol*, *pmr*, *cmr*)

Vasconine

4,5-Dihydro-9,10-dimethoxyppyrrrolo[3,2,1-de]phenanthridinium, 9CI

[139955-90-1]

V-10016



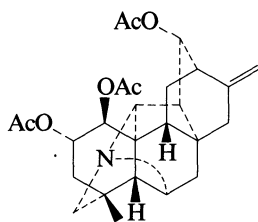
$\text{C}_{17}\text{H}_{16}\text{NO}_2^{\oplus}$ M 266.319 (ion)

Alkaloid from whole plants of *Narcissus vasconicus* (Amaryllidaceae). Mp 233-235°. Counterion not specified.

Bastida, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 122 (*isol*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

Venudelfphine

V-10017



$\text{C}_{26}\text{H}_{33}\text{NO}_6$ M 455.550

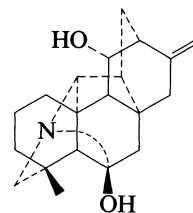
Alkaloid from aerial parts of *Delphinium venulosum* (Ranunculaceae). $[\alpha]_D^{22} 0^\circ$ (c, 0.1 in CHCl_3).

Ulubelen, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 780 (*isol*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

Venulol

V-10018

[102517-36-2]



$\text{C}_{20}\text{H}_{27}\text{NO}_2$ M 313.439

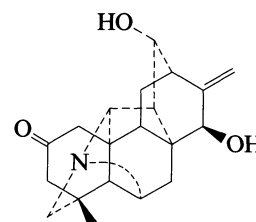
Alkaloid from the aerial parts of *Delphinium venulosum* (Ranunculaceae). $[\alpha]_D^{22} +19.7^\circ$ (c, 0.15 in MeOH).

Ulubelen, A. *et al*, *Phytochemistry*, 1992, **31**, 3239 (*isol*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

Venulosone

V-10019

[145237-03-2]



$\text{C}_{20}\text{H}_{25}\text{NO}_3$ M 327.422

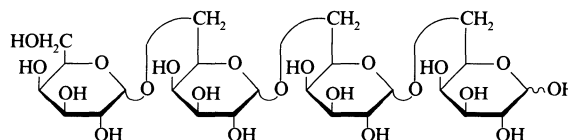
Alkaloid from the aerial parts of *Delphinium venulosum* (Ranunculaceae). $[\alpha]_D^{22} +27.3^\circ$ (c, 0.20 in MeOH).

Ulubelen, A. *et al*, *Phytochemistry*, 1992, **31**, 3239 (*isol*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

Verbascotetraose

V-10020

α -D-Galactopyranosyl-(1 \rightarrow 6)- α -D-galactopyranosyl-(1 \rightarrow 6)- α -D-galactopyranosyl-(1 \rightarrow 6)-D-glucose



Pyranose-form

$\text{C}_{24}\text{H}_{42}\text{O}_{21}$ M 666.583

Found in birch sap. Normal constit. of acid-resistant plant tissues. Mp 240°. $[\alpha]_D +191^\circ$.

Courtois, J.E. *et al*, *Bull. Soc. Chim. Biol.*, 1955, **37**, 1009.

Haq, S. *et al*, *Can. J. Biochem.*, 1962, **40**, 989.

Vinaline

V-10021

Struct. unknown. Constit. of the leaves of *Prosopis ruscifolia*.

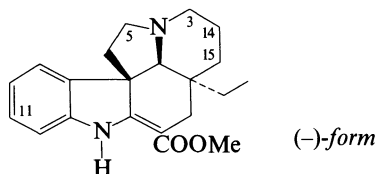
Cercos, A.P., *CA*, 1952, **46**, 11311d.

Vincadifformine

V-10022

Updated Entry replacing V-00281

Methyl 2,3-didehydrospidospemidine-3-carboxylate, 9CI

C₂₁H₂₆N₂O₂ M 338.449

(+) -form [15539-10-3]

Alkaloid from *Amsonia tabernaemontana*, *A. angustifolia*, *Rhazya stricta*, *Tabernaemontana riedelii* (Apocynaceae). Mp 96°. [α]_D²⁵ + 605° (c, 0.2 in EtOH).

(-) -form [3247-10-7]

Alkaloid from *Vinca minor* (Apocynaceae). Mp 96°. [α]_D²⁰ – 540° (EtOH) (natural), [α]_D – 600° (EtOH) (semisynthetic).

3-Oxo: [55528-27-3]. 3-Oxovincadifformine

C₂₁H₂₄N₂O₃ M 352.432

Alkaloid from seeds of *Stemmadenia grandiflora* (Apocynaceae). Oil. [α]_D²¹ – 315° (c, 0.12 in CHCl₃).

5-Oxo: [23107-01-9]. 5-Oxovincadifformine. Ervinidinine

C₂₁H₂₄N₂O₃ M 352.432

Alkaloid from the leaves of *Pterotaberna inconspicua* and *Vinca erecta* (Apocynaceae). Cryst. (MeOH). Mp 265-266° dec. [α]_D – 152° (c, 0.25 in MeOH). Identity of Ervinidinine and 5-Oxovincadifformine not certain. Mp. refers to Ervinidinine.

15 β -Hydroxy: [119478-89-6]. 15 β -HydroxyvincadifformineC₂₁H₂₆N₂O₃ M 354.448

Alkaloid from the leaves of *Rhazya stricta* (Apocynaceae). [α]_D + 240.57° (CHCl₃).

11-Methoxy: see *Ervinicine*, E-01525Stereoisomer (?): [6878-14-4]. *Ervamine*C₂₁H₂₆N₂O₂ M 338.449

Alkaloid from *V. erecta* and *V. rosea* (Apocynaceae). [α]_D – 502° (c, 0.29 in MeOH). Stereochem. not clear from the abstr.

Stereoisomer; B,HI: Cryst. (EtOH). Mp 198-200°.

11-Hydroxy: 11-Hydroxyvincadifformine

C₂₁H₂₆N₂O₃ M 354.448

Alkaloid from aerial parts of *Melodinus hemsleyanus* (Apocynaceae). Amorph. [α]_D²³ – 502° (c, 0.1 in CHCl₃).

(±) -form [18374-17-9]

Alkaloid from *V. difformis*, *R. stricta*, *T. riedelii* (Apocynaceae). Shows hypotensive activity, about half that of Reserpine. Mp 124-125°.

N^a-Me: see *Minovine*, M-01560Plat, M. et al, *Bull. Soc. Chim. Fr.*, 1962, 2237 (*isol*)Djerassi, C. et al, *Tetrahedron Lett.*, 1962, 235 (*isol, ms, uv, ir*)Malikov, V.M. et al, *CA*, 1963, 59, 11584b (*Ervamine*)Klyne, W. et al, *Helv. Chim. Acta*, 1965, 48, 443 (*abs config*)Szadon, B. et al, *Tetrahedron Lett.*, 1970, 4615 (*isol*)Malikov, V.M. et al, *Khim. Prir. Soedin.*, 1971, 7, 640; *Chem. Nat.*

Compd. (Engl. Transl.), 619 (*Ervinidinine*)

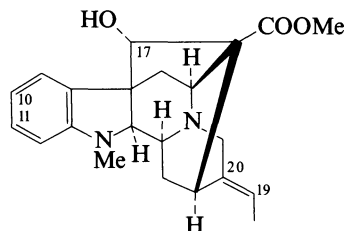
Wenkert, E. et al, *J. Am. Chem. Soc.*, 1973, 95, 4990 (*cmr*)Larozne, J.Y. et al, *Tetrahedron Lett.*, 1974, 491 (*synth*)Kuehne, M.E. et al, *J. Org. Chem.*, 1986, 51, 2913 (15 β -Hydroxyvincadifformine)Massiot, G. et al, *Phytochemistry*, 1988, 27, 1085 (5-Oxovincadifformine)Torrenegra, R. et al, *Phytochemistry*, 1988, 27, 1843 (3-Oxovincadifformine)Atta-ur-Rahman, et al, *Phytochemistry*, 1988, 27, 3721 (15 β -Hydroxyvincadifformine)Takano, S. et al, *Chem. Lett.*, 1989, 87 (*synth*)Guo, L.-W. et al, *Phytochemistry*, 1993, 34, 563 (11-Hydroxyvincadifformine)

Vincamajine

V-10023

Updated Entry replacing V-00284

[2506-26-5]

C₂₂H₂₆N₂O₃ M 366.459

Alkaloid from *Vinca major*, *V. herbacea*, *V. libanotica*, *Alstonia spectabilis*, *A. quaternata*, *A. legouixiae*, *A. odontophora*, *A. constricta* and *Cabucala torulosa* (Apocynaceae). Needles (MeOH). Mp 226.5-227°. [α]_D³⁵ – 58° (c, 0.5 in MeOH).

B,HCl: Mp 259-261° dec. [α]_D – 40° (c, 0.38 in H₂O).

O-Ac: [912-27-6]. Vincamedine

C₂₄H₂₈N₂O₄ M 408.496

Alkaloid from *V. difformis* and *V. major* (Apocynaceae). Mp 185.5-186.5°. [α]_D²⁰ – 75° (c, 1 in CHCl₃).

O-Benzoyl: O-Benzoylvincamajine

C₂₉H₃₀N₂O₄ M 470.567

Constit. of the leaves of *Alstonia macrophylla* (Apocynaceae). Mp 267-269°. [α]_D³⁰ – 147° (CHCl₃).

O-(3,4,5-Trimethoxycinnamoyl): [57800-03-0]. 3,4,5-Trimethoxycinnamoylvincamajine

C₃₄H₃₈N₂O₇ M 586.683

Alkaloid from the root bark of *A. constricta* and from *A. lanceolifera* (Apocynaceae). Noncryst. [α]_D – 68° (c, 2.6 in CHCl₃).

O-(4-Hydroxy-3,5-dimethoxybenzoyl): O-(4-Hydroxy-3,5-dimethoxybenzoylvincamajine

C₃₁H₃₄N₂O₇ M 546.619

Minor alkaloid from roots of *Alstonia angustifolia* (Apocynaceae).

17-Epimer: Vincamajinine

C₂₂H₂₆N₂O₃ M 366.459

Alkaloid from aerial parts of *V. major* (Apocynaceae). Mp 257-259°, Mp 274-275°.

10-Hydroxy, O-(3,4,5-trimethoxybenzoyl): [57800-05-2]. 10-Hydroxy-O¹⁷-(3,4,5-trimethoxybenzoylvincamajineC₃₂H₃₆N₂O₈ M 576.645

Alkaloid from the aerial parts of *A. lanceolifera* (Apocynaceae). Amorph. [α]_D – 43° (c, 1 in CHCl₃).

10-Hydroxy, O-(3,4,5-trimethoxycinnamoyl): [57808-41-0]. 10-Hydroxy-O¹⁷-(3,4,5-trimethoxycinnamoylvincamajineC₃₄H₃₈N₂O₈ M 602.683

Alkaloid from the aerial parts of *A. lanceolifera* (Apocynaceae). [α]_D – 114° (c, 1 in CHCl₃).

10-Methoxy: [57800-02-9]. 10-Methoxyvincamajine

C₂₃H₂₈N₂O₄ M 396.485

Alkaloid from the aerial parts of *A. lanceolifera* and *A. bouldaensis* (Apocynaceae). Amorph. [α]_D 0° (c, 1 in EtOH).

10-Methoxy, O-Ac: 10-Methoxyvincamedine

C₂₅H₃₀N₂O₅ M 438.522

Alkaloid from leaves, fruit and stem bark of *A. sphaerocapitata* (Apocynaceae). [α]_D – 9° (c, 1 in CHCl₃).

10-Methoxy, O-Ac, N⁴-oxide: 10-Methoxyvincamedine N(4)-oxide

$C_{25}H_{30}N_2O_6$ M 454.522

Alkaloid from the leaves, fruit and stem bark of *A. sphaerocapitata* (Apocynaceae). $[\alpha]_D^{20}$ -2° (c, 1 in $CHCl_3$).

10-Methoxy, O-(3,4,5-Trimethoxycinnamoyl): [57800-04-1]. (3,4,5-Trimethoxycinnamoyl)-10-methoxyvincamajine

$C_{35}H_{40}N_2O_8$ M 616.710

Alkaloid from the aerial parts of *A. lanceolifera* (Apocynaceae). $[\alpha]_D^{20}$ -134° (c, 1 in $CHCl_3$).

11-Methoxy: [132242-26-3]. 11-Methoxyvincamajine

$C_{23}H_{28}N_2O_4$ M 396.485

Alkaloid from the stem of *Tonduzia pittieri* (*Alstonia pittieri*) (Apocynaceae). $[\alpha]_D^{20}$ -14° (c, 0.25 in $CHCl_3$).

11-Methoxy, O-Ac: 11-Methoxyvincamedine

$C_{25}H_{30}N_2O_5$ M 438.522

Alkaloid from leaves of *Tonduzia pittieri* (*Alstonia pittieri*) (Apocynaceae). $[\alpha]_D^{20}$ -7.5° (c, 1 in $CHCl_3$).

11-Methoxy, 17-epimer: [132268-03-2]. 11-Methoxy-17-epi-*vincamajine*

$C_{23}H_{28}N_2O_4$ M 396.485

Alkaloid from the stem bark of *T. pittieri* (*A. pittieri*) (Apocynaceae). $[\alpha]_D^{20}$ -12° (c, 0.5 in $CHCl_3$).

19,20-Dihydro, 19 ξ -hydroxy: 19-Hydroxyvincamajine.

Dihydro-19-hydroxyvincamajinine

$C_{22}H_{28}N_2O_4$ M 384.474

Alkaloid from the leaves of *A. macrophylla* (Apocynaceae).

Janot, M.M. et al, *C. R. Hebd. Seances Acad. Sci.*, 1956, **243**, 85 (*Vincamedine*)

Trojánek, J. et al, *Collect. Czech. Chem. Commun.*, 1962, **27**, 2981 (*isol*)

Crow, W.D. et al, *Aust. J. Chem.*, 1970, **23**, 2489 (*isol*, *pmr*, O-3,4,5-Trimethoxycinnamoyl, *ir*, *uv*, *ms*, *pmr*, *struct*)

Hart, N.K. et al, *Aust. J. Chem.*, 1972, **25**, 2739 (*isol*)

Aynilian, G.H. et al, *J. Nat. Prod. (Lloydia)*, 1974, **37**, 299 (*isol*, *uv*, *ir*, *ms*)

Lewin, G. et al, *Phytochemistry*, 1975, **14**, 2067 (10-Methoxyvincamajine)

Chatterjee, A. et al, *Tetrahedron Lett.*, 1978, 3879 (*cmr*)

Caron, C. et al, *Phytochemistry*, 1984, **23**, 2355 (10-Methoxyvincamedine)

Zhukovich, E.N. et al, *Khim. Prir. Soedin.*, 1985, **21**, 720; *Chem. Nat. Compd. (Engl. Transl.)*, 682 (*Vincamajinine*)

Solans, X. et al, *Acta Crystallogr., Sect. C*, 1987, **43**, 1981 (*cryst struct*, *abs config*, *Vincamedine*)

Ratnayake, C.K. et al, *Phytochemistry*, 1987, **26**, 868 (19-Hydroxyvincamajine)

Morfaux, A.-M. et al, *Phytochemistry*, 1990, **29**, 3345 (11-Methoxyvincamajine)

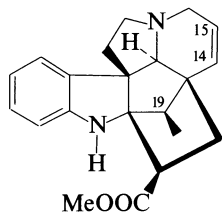
Said, I.M. et al, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1323 (O-(4-Hydroxy-3,5-dimethoxybenzoyl)vincamajine)

Vindolinine

Updated Entry replacing V-00315

Methyl 6,7-didehydro-2,20-cycloaspidospermidine-3-carboxylate, 9CI

[5980-02-9]



Absolute configuration

$C_{21}H_{24}N_2O_2$ M 336.433

Alkaloid from *Catharanthus roseus* (*Vinca rosea*) and *Melodinus balansae* (Apocynaceae). Mp 214-218°.

B,2HCl: Mp 210-212° dec., Mp 250-252°.

Picrate: Mp 268-272°.

19-Epimer: 19S-Vindolinine

$C_{21}H_{24}N_2O_2$ M 336.433

Alkaloid from the leaves of *C. roseus* (Apocynaceae). Cryst. (EtOH). Mp 200°. $[\alpha]_D^{20}$ $+40^\circ$ (MeOH).

Erroneously descr. as 16-epi-19S-vindolinine in the original ref. Isomerises in $CHCl_3$ to Vindolinine.

19-Epimer, N-oxide: [88720-99-4]. 19S-Vindolinine N-oxide

$C_{21}H_{24}N_2O_3$ M 352.432

Alkaloid from *C. roseus* (Apocynaceae). Descr. in the lit. as 16-Epi-19S-vindolinine N-oxide but this should presumably be revised.

14,15-Dihydro: [17172-16-6]. Pseudokopsinine. 14,15-Dihydrovindolinine

$C_{21}H_{26}N_2O_2$ M 338.449

Alkaloid from *V. erecta* epigeal parts (Apocynaceae). Shows hypotensive activity. $[\alpha]_D^{20}$ $+30.4^\circ$ (c, 1.51 in MeOH).

16 β -Hydroxy: 16 β -Hydroxy-19R-vindolinine

$C_{21}H_{24}N_2O_3$ M 352.432

Alkaloid from aerial parts of *Melodinus hemsleyanus* (Apocynaceae). Needles (Me₂CO). Mp 185° dec. $[\alpha]_D^{20}$ -42.9° (c, 0.2 in $CHCl_3$).

19-Epimer, 16 β -hydroxy: 16 β -Hydroxy-19S-vindolinine

$C_{21}H_{24}N_2O_3$ M 352.432

Alkaloid from aerial parts of *M. hemsleyanus* (Apocynaceae). Prisms (Me₂CO). Mp 220° dec. $[\alpha]_D^{20}$ -87.5° (c, 0.03 in $CHCl_3$).

Janot, M.M. et al, *Bull. Soc. Chim. Fr.*, 1959, 891 (*isol*)

Djerassi, C. et al, *Helv. Chim. Acta*, 1964, **47**, 827 (*ms*, *struct*)

Ahond, A. et al, *J. Am. Chem. Soc.*, 1974, **96**, 633 (*cmr*, *struct*)

Nasyrov, S.-M. et al, *J. Chem. Soc., Chem. Commun.*, 1974, 979 (*cryst struct*, *Pseudokopsinine*)

Rasonaivo, P. et al, *Tetrahedron Lett.*, 1974, 3669 (*abs config*)

Riche, C. et al, *Acta Crystallogr., Sect. B*, 1976, **32**, 1975 (*cryst struct*)

Nasyrov, S.-M. et al, *Khim. Prir. Soedin.*, 1976, 197; *Chem. Nat. Compd. (Engl. Transl.)*, 176 (*abs config*, *Pseudokopsinine*)

Atta-ur-Rahman, et al, *Phytochemistry*, 1983, **22**, 1021 (*epimer*)

Atta-ur-Rahman, et al, *Planta Med.*, 1983, **49**, 124 (*diepimer oxide*)

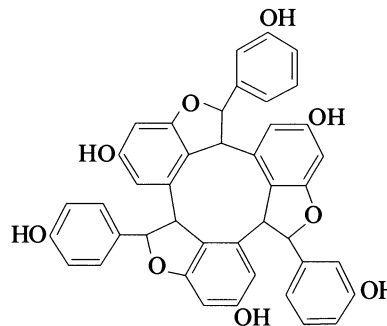
Atta-ur-Rahman, et al, *Z. Naturforsch., B*, 1986, **41**, 386 (*epimer*)

Guo, L.-W. et al, *Phytochemistry*, 1993, **34**, 563 (16 β -Hydroxy-19R-vindolinine, 16 β -Hydroxy-19S-vindolinine)

α -Viniferin

[62218-13-7]

V-10025



$C_{42}H_{30}O_9$ M 678.694

Isol. from leaves of *Vitis vinifera*. λ_{max} 225 sh (log ϵ 4.68), 281 sh (3.92), 286 (4.00) and 293 sh nm (3.93).

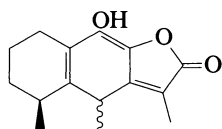
Langcake, P. et al, *Experientia*, 1977, **33**, 151 (*isol*)

Langcake, P. et al, *Phytochemistry*, 1977, **16**, 1193 (*biosynth*)

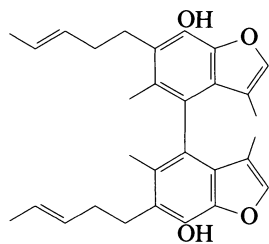
Pryce, R.J. et al, *Phytochemistry*, 1977, **16**, 1452 (*isol*)

Virgauride

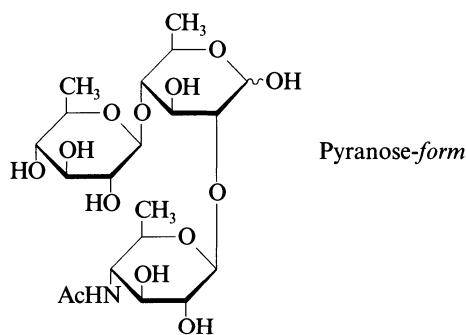
[140245-68-7]

 $C_{15}H_{18}O_3$ M 246.305Constit. of *Ligularia virgaurea*. Plates.

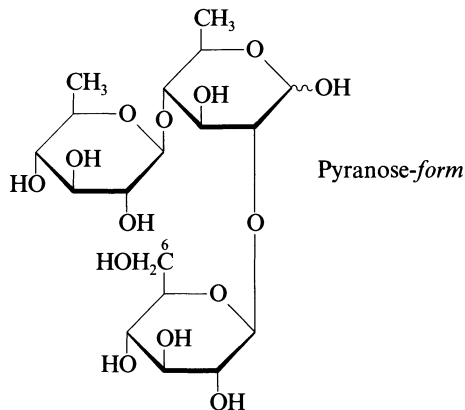
[140245-65-4]

Chen, H.M. *et al*, *Chin. Chem. Lett.*, 1991, 2, 847 (*isol, pmr, cmr*)**Virgaurin A** $C_{30}H_{34}O_4$ M 458.596Constit. of *Ligularia virgaurea*. Orange powder. Mp 122° dec. $[\alpha]_D^{24} + 3.5^\circ$ (c, 0.42 in $CHCl_3$).Chen, H.M. *et al*, *Chin. Chem. Lett.*, 1991, 2, 847 (*isol, pmr, cmr*)**Viridotriose B**

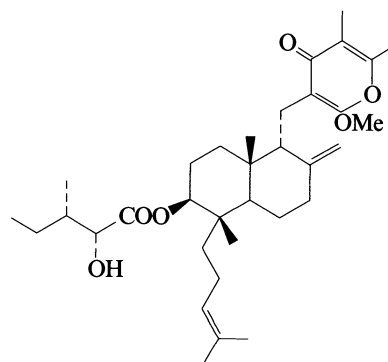
V-10028

4-(Acetylamino)-4,6-dideoxy- β -D-glucopyranosyl-(1 \rightarrow 2)[6-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)]-6-deoxy-D-glucose, 9CI [73793-36-9] $C_{20}H_{35}NO_{13}$ M 497.495Component of Sporaviridin, S-01168. Powder + H_2O . Mp 216-219° dec. $[\alpha]_D^{23} + 4.7^\circ$ (c, 0.3 in MeOH).Harada, K. *et al*, *Tetrahedron Lett.*, 1982, 23, 2481 (*ms*)Harada, K. *et al*, *Chem. Pharm. Bull.*, 1983, 31, 3829, 3844 (*struct, cmr*)

V-10026

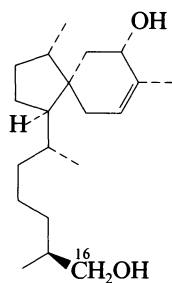
Viridotriose C6-Deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-[β -D-glucopyranosyl-(1 \rightarrow 2)]-6-deoxy-D-glucose, 9CI [73942-74-2] $C_{18}H_{32}O_{14}$ M 472.442Component of Sporaviridin, S-01168. Powder + H_2O . Mp 168-169° (dec.). $[\alpha]_D^{23} + 12.3^\circ$ (c, 0.3 in MeOH).6-Deoxy: [73938-83-7]. **Viridotriose A** $C_{18}H_{32}O_{13}$ M 456.443Component of Sporaviridin, S-01168. Powder + H_2O . Mp 235-238° dec. $[\alpha]_D^{23} + 11.3^\circ$ (c, 0.3 in MeOH).Harada, K. *et al*, *Tetrahedron Lett.*, 1982, 23, 2481 (*ms*)Harada, K. *et al*, *Chem. Pharm. Bull.*, 1983, 31, 3829, 3844 (*struct, cmr*)**Viridoxin A**

[145940-93-8]

 $C_{34}H_{52}O_6$ M 556.781Constit. of *Metarhizium flavoviride*. Needles (MeCN aq.). Mp 65-66°. $[\alpha]_D^{21} - 36.5^\circ$ (c, 1.51 in $CHCl_3$).O-Deacyl, O-(2R-hydroxy-4-methylpentanoyl): [145940-94-9]. **Viridoxin B** $C_{34}H_{52}O_6$ M 556.781Constit. of *M. flavoviride*. Rods (MeCN aq.). Mp 105-106°. $[\alpha]_D^{21} - 31.7^\circ$ (c, 0.65 in $CHCl_3$).Gupta, S. *et al*, *J. Org. Chem.*, 1993, 58, 1062 (*isol, pmr, cmr, cryst struct*)

3-Viscidene-5,16-diol

V-10031

 $C_{20}H_{36}O_2$ M 308.503

Constit. of *Eremophila verticillata*. Cryst. Mp 84-86°. $[\alpha]_D$
+ 75° (c, 3.5 in $CHCl_3$).

16-Ac:

 $C_{22}H_{38}O_3$ M 350.540

Constit. of *E. verticillata*. Oil. Bp_{0,9} 188-190° (bath). $[\alpha]_D$
+ 52.9° (c, 0.2 in $CHCl_3$).

5-Ketone: 16-Hydroxy-3-visciden-5-one

 $C_{20}H_{34}O_2$ M 306.487

Constit. of *E. verticillata*. Oil. Bp_{0,9} 190-195° (bath). $[\alpha]_D$
+ 67.7° (c, 5.2 in $CHCl_3$).

16-Carboxylic acid: 5-Hydroxy-3-visciden-16-oic acid

 $C_{20}H_{34}O_3$ M 322.487

Constit. of *E. verticillata*. Oil. $[\alpha]_D$ + 67° (c, 0.4 in
 $CHCl_3$).

5-Ketone, 16-carboxylic acid: 5-Oxo-3-visciden-16-oic acid

 $C_{20}H_{32}O_3$ M 320.471

Constit. of *E. verticillata*. Oil. $[\alpha]_D$ + 76.2° (c, 2.4 in
 $CHCl_3$).

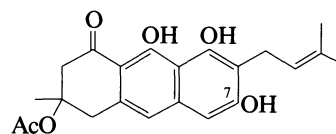
Forster, P.G. *et al*, *Phytochemistry*, 1993, **32**, 1225 (*isol, pmr, cmr*)

Vismione C

V-10032

Updated Entry replacing V-00397

[87617-83-2]

 $C_{22}H_{24}O_6$ M 384.428

Constit. of *Psorospermum febrifugum*. Orange-brown cryst.
(CH_2Cl_2 /heptane). Mp 100-105° dec.

7-Me ether, O-de-Ac: [87605-73-0]. **Vismione E** $C_{21}H_{24}O_5$ M 356.418

Constit. of *P. febrifugum*. Red-brown cryst.
(CH_2Cl_2 /heptane). Mp 161-164° dec.

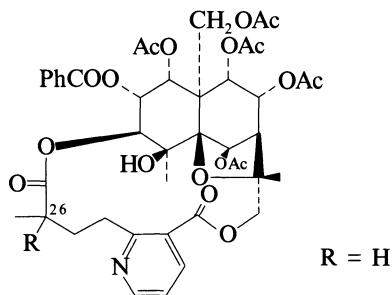
7-Me ether, 3-O-De-Ac, 3-O-(3-methyl-2-butenyl): [120090-95-1]. **O-Prenylvismione E** $C_{26}H_{32}O_5$ M 424.536Constit. of *P. glaberrimum*. Oil.Botta, B. *et al*, *Phytochemistry*, 1983, **22**, 539.Botta, B. *et al*, *Tetrahedron*, 1988, **44**, 7193 (*O-Prenylvismione E*)

W

Wilforine†

Updated Entry replacing W-00035

[11088-09-8]



$C_{43}H_{49}NO_{18}$ M 867.856

Alkaloid from *Tripterygium wilfordii* and *Maytenus senegalensis* (Celastraceae). Shows insecticidal properties. Plates ($Me_2CO/MeOH$). Mp 169-170°. $[\alpha]_D^{25} + 30^\circ$ (Me_2CO).

De-Ac: [37239-46-6]. **Wilforzine**

$C_{41}H_{47}NO_{17}$ M 825.819

Alkaloid from the roots of *T. wilfordii* (Celastraceae). Needles ($Me_2CO/MeOH$). Mp 177-178°. $[\alpha]_D^{25} + 6^\circ$ (Me_2CO). Prob. the 2- or 6-deacetyl deriv. of Wilforine. Has been shown not to be an artifact.

*O*²-Debenzoyl, *O*²-(3-pyridinecarbonyl): [112899-84-0].

Wilformine

$C_{42}H_{48}N_2O_{18}$ M 868.844

Alkaloid from *T. wilfordii* (Celastraceae). Immunosuppressant. Mp 177-178°.

*O*²-Debenzoyl, *O*²-furoyl: [37239-47-7].

$C_{41}H_{47}NO_{19}$ M 857.818

Alkaloid from the roots of *T. hypoglaucom* (Celastraceae). Shows insecticidal props. Plates ($Me_2CO/MeOH$). Mp 211°. $[\alpha]_D^{25} + 25^\circ$ (Me_2CO).

Beroza, M., *J. Am. Chem. Soc.*, 1951, **73**, 3656; 1952, **74**, 1585; 1953, **75**, 2136 (*isol, uv, Wilforzine*)

Tin-Wa, M. *et al*, *J. Nat. Prod. (Lloydia)*, 1971, **34**, 79 (*isol*)

Zhang, Z. *et al*, *Jiegou Huaxue*, 1986, **5**, 83; *CA*, **107**, 237078x.

Deng, F. *et al*, *Zhiviu Xuebao*, 1987, **29**, 523; *CA*, **108**, 87738s (*Wilformine*)

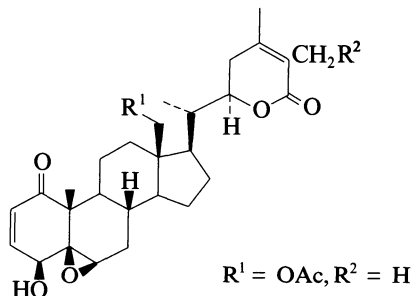
Ya, L. *et al*, *Can. J. Chem.*, 1990, **68**, 371 (*Wilformine*)

Withacnistin

W-10002

Updated Entry replacing W-00044

18-Acetoxy-5,6β-epoxy-4β-hydroxy-1-oxo-5β-20S,22R-witha-2,24-dienolide [21902-99-8]



$C_{30}H_{40}O_7$ M 512.642

Constit. of leaves of *Acnistus arborescens*. Amorph. Mp 130-135°. $[\alpha]_D^{27} + 123^\circ$ (c, 1.21 in $CHCl_3$).

Ac: Cryst. ($Me_2CO/cyclohexane$). Mp 131-132°. *2,3-Dihydro, 3-ethoxy*: [21903-04-8]. *3-Ethoxy-2,3-dihydrowithacnistin*

Isol. from extracts of *A. arborescens*, probably artifact.

Cryst. Mp 134-136°. $[\alpha]_D^{24} + 29^\circ$ (c, 0.46 in $CHCl_3$).

24β,25α-Dihydro: **24,25-Dihydrowithacnistin**

$C_{30}H_{42}O_7$ M 514.658

Constit. of *Iochroma coccineum*. Cryst. Mp 106-112°.

27-Hydroxy: **27-Hydroxywithacnistin**

$C_{30}H_{40}O_8$ M 528.641

Constit. of *I. coccineum*. Cryst. Mp 134-138°.

16α-Hydroxy: **16α-Hydroxywithacnistin**

$C_{30}H_{40}O_8$ M 528.641

Constit. of *I. coccineum*. Cryst. Mp 153-157°.

2,3-Dihydro, 3ξ-hydroxy: **2,3-Dihydro-3-hydroxywithacnistin**

$C_{30}H_{42}O_8$ M 530.657

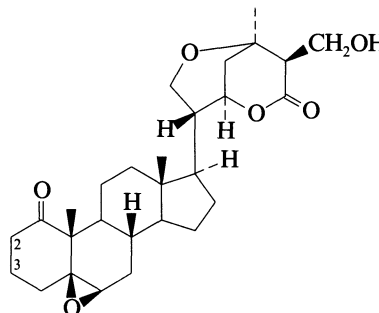
Constit. of *I. coccineum*. Cryst. Mp 148-154°.

Kupchan, S.M. *et al*, *J. Org. Chem.*, 1969, **34**, 3858 (*isol*)

Alfonso, D. *et al*, *Phytochemistry*, 1993, **34**, 517 (*isol, pmr, cmr, cryst struct*)

Withafastuosin A

W-10003



$C_{28}H_{40}O_6$ M 472.620

Constit. of *Datura fastuosa*.

2,3-Didehydro: **Withafastuosin B**

$C_{28}H_{38}O_6$ M 470.605

Constit. of *D. fastuosa*.

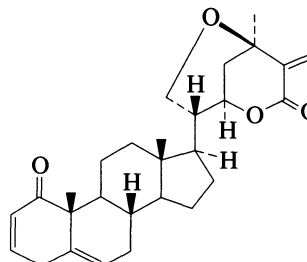
Manickam, M. *et al*, *Phytochemistry*, 1993, **34**, 868 (*isol, pmr, cmr*)

Withametelin

W-10004

Updated Entry replacing W-00049

21,24-Epoxy-1-oxowitha-2,5,25-trienolide. Daturilin [113430-43-6]



$C_{28}H_{36}O_4$ M 436.590
 Constit. of *Datura metel*. Needles (EtOAc). Mp 210°. $[\alpha]_D$
 – 64.4° (c, 0.45 in $CHCl_3$). Some confusion exists in lit.
 over configs. at C-20 and C-22 posns.

Δ^3 -Isomer: [123522-98-5]. **Isowithametelin**

$C_{28}H_{36}O_4$ M 436.590
 Isol. from leaves of *D. metel*. Mp 280°. $[\alpha]_D$ – 77.7° (c,
 0.26 in $CHCl_3$).

5 β ,6 β -Epoxide: [123523-03-5]. **Withametelin F**

$C_{28}H_{36}O_5$ M 452.589
 Constit. of *D. metel*. Cryst. Mp 242-245°. $[\alpha]_D$ – 27.6°
 (c, 0.29 in MeOH).

5,6-Dihydro, 5 α ,6 β -dihydroxy: [151344-95-5]. **Withametelin G**

$C_{28}H_{38}O_6$ M 470.605
 Constit. of *D. metel*. Cryst. Mp 159-161°. $[\alpha]_D$ – 14.6°
 (c, 0.15 in MeOH).

[111950-78-8]

Siddiqui, S. *et al*, *Phytochemistry*, 1987, **26**, 2641 (*isol*)

Sinha, S.C. *et al*, *Tetrahedron*, 1989, **45**, 2165 (*isol*)

Jahromi, M.A.F. *et al*, *J. Chem. Res., Synop.*, 1993, 234

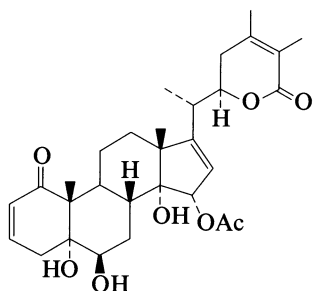
(*Withametelins F and G*)

Withaminimin

W-10005

Updated Entry replacing W-00051

15 α -Acetoxy-5,6 β ,14-trihydroxy-1-oxo-5 α ,20S,22R-witha-
 2,16,24-trienolide



$C_{30}H_{40}O_8$ M 528.641
 Constit. of *Physalis minima*. Amorph. powder. Mp 208°.

16 β ,17 β -Epoxide: **Physagulin F**

$C_{30}H_{40}O_9$ M 544.641
 Constit. of *P. angulata*. Powder. $[\alpha]_D$ + 70.7° (c, 1.1 in
 MeOH).

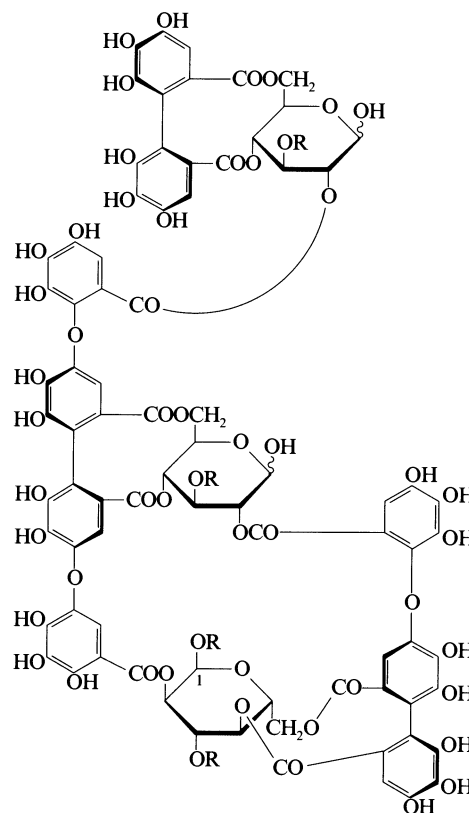
Gottlieb, H.E. *et al*, *Phytochemistry*, 1987, **26**, 1801.

Shingu, K. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2448.

Woodfordin D

W-10006

[137422-97-0]



R = 3,4,5-Trihydroxybenzoyl

$C_{109}H_{76}O_{70}$ M 2505.757

Exists as an equilibrated mixt. of α - and β -anomers. A
 macrocyclic ellagitannin from the flowers of *Woodfordia*
fruticosa. Exhibits a potent *in vivo* antitumour activity.
 Light brown amorph. powder + 21 H_2O . $[\alpha]_D^{20}$ + 105° (c,
 1.0 in Me_2CO).

O¹-Degalloyl: [137422-98-1]. **Oenothin A**

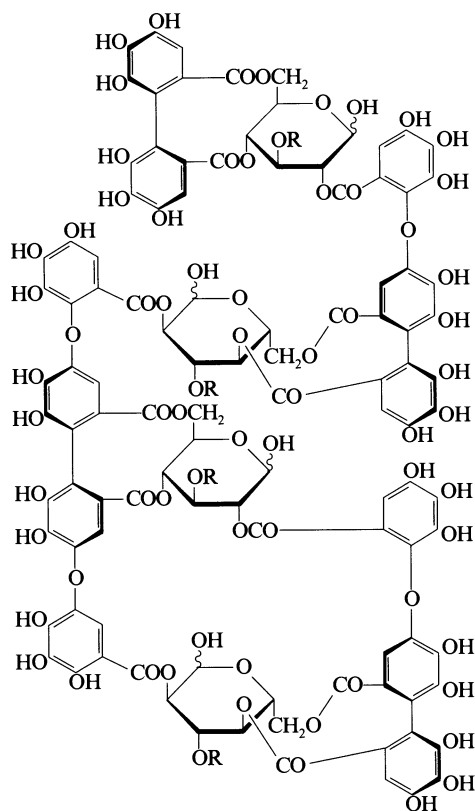
$C_{102}H_{72}O_{66}$ M 2353.651

Tannin isol. from flowers of *W. fruticosa* and leaves of
Oenanthera biennis. Shows potent *in vivo* antitumour
 activity. Light-brown amorph. powder + 23 H_2O . $[\alpha]_D^{20}$
 + 113° (c, 1.0 in MeOH).

Yoshida, T. *et al*, *Chem. Pharm. Bull.*, 1991, **39**, 1157 (*uv, cd, pmr,*
struct)

Woodfordin F

W-10007



R = 3,4,5-Trihydroxybenzoyl

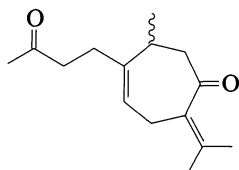
 $C_{136}H_{96}O_{88}$ M 3138.202Exists as an equilibrated mixt. of α - and β -anomers.Tetrameric ellagitannin from *Woodfordia fruticosa*. Off-white amorph. powder + 30H₂O. $[\alpha]_D^{20} +83^\circ$ (c, 1.0 in Me₂CO).Yoshido, T. *et al*, *Chem. Pharm. Bull.*, 1992, **40**, 2023 (*uv, cd, pmr*)

X

1(5),7(11)-Xanthadiene-3,8-dione

Curcumadione

[116425-36-6]



$C_{15}H_{22}O_2$ M 234.338

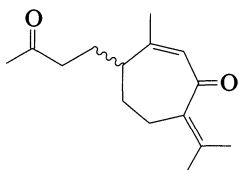
Constit. of *Curcuma aromatica*. Oil.

Kuroyanagi, M. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 55 (*isol*, *pmr*, *cmr*)

7(11),9-Xanthadiene-3,8-dione

Isocurcumadione

[116446-55-0]



$C_{15}H_{22}O_2$ M 234.338

Constit. of *Curcuma aromatica*. Oil.

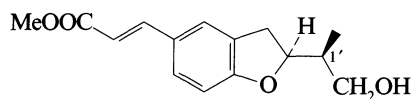
Kuroyanagi, M. *et al*, *Chem. Pharm. Bull.*, 1990, **38**, 55 (*isol*, *pmr*, *cmr*)

Xanthochroa coumarate

X-10003

Methyl 3-[2,3-dihydro-2-(2-hydroxy-1-methylethyl)-5-benzofuranyl]-2-propenoate, 9CI. 1-Cyclocapillarol

[130252-49-2]



$C_{15}H_{18}O_4$ M 262.305

Constit. of *Artemisia monosperma* and *A. xanthochroa*. Gum.

1'-Epimer: [130252-48-1]. *Epixanthochroa coumarate. d-Cyclocapillarol*

$C_{15}H_{18}O_4$ M 262.305

Constit. of *A. monosperma* and *A. xanthochroa*. Gum.

Abdel-Mogib, M. *et al*, *Phytochemistry*, 1990, **29**, 2728 (*isol*)

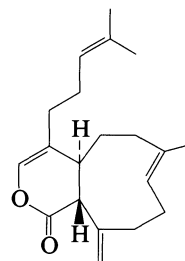
Jakupovic, J. *et al*, *Phytochemistry*, 1990, **29**, 3683 (*isol*)

X-10001

1(19),6,10(17),13-Xenicatetraen-18,17-olide

Acalycigorgin C

[147318-41-0]



$C_{20}H_{28}O_2$ M 300.440

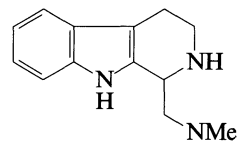
Constit. of an *Acalycigorgia* sp. Oil. $[\alpha]_D^{21} +40.3^\circ$ (c, 0.28 in $CHCl_3$).

Ochi, M. *et al*, *Heterocycles*, 1993, **36**, 41 (*isol*, *pmr*, *cmr*)

Xestoamine

X-10005

[145237-04-3]



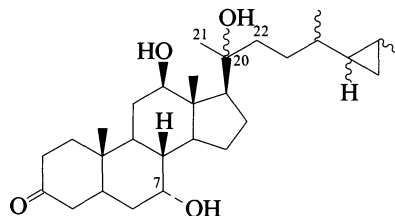
$C_{14}H_{19}N_3$ M 229.324

Alkaloid from the New Caledonian sponge *Xestospongia* sp. Amorph. Opt. inactive.

Quirion, J.-C. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1505 (*isol*, *ir*, *pmr*, *cmr*, *ms*, *struct*)

Xestokerol B

X-10006



$C_{29}H_{48}O_4$ M 460.696

Constit. of a *Xestospongia* sp. Amorph. powder. Mp 218-221°. $[\alpha]_D^{21} -5.2^\circ$ (c, 1.1 in MeOH).

7-Deoxy, 21,22ξ-dihydroxy: Xestokerol A

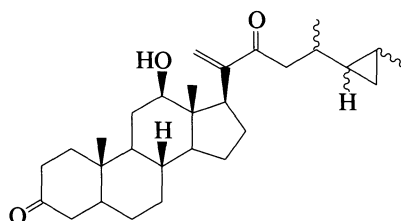
$C_{29}H_{48}O_5$ M 476.695

Constit. of a *X.* sp. Oil. $[\alpha]_D^{21} +30.0^\circ$ (c, 1.1 in MeOH).

Kobayashi, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1350 (*isol*, *pmr*, *cmr*)

Xestokerol C

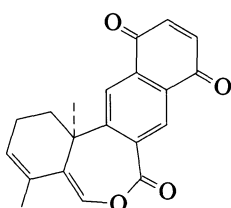
X-10007

 $C_{29}H_{44}O_3$ M 440.665Constit. of a *Xestospongia* sp. Amorph. powder. Mp 137-140°. $[\alpha]_D^{27} -43.6^\circ$ (c, 0.6 in MeOH).Kobayashi, J. *et al*, *J. Nat. Prod. (Lloydia)*, 1993, **56**, 1350 (*isol*, *pmr*, *cmr*)

Xestoquinolide A

X-10008

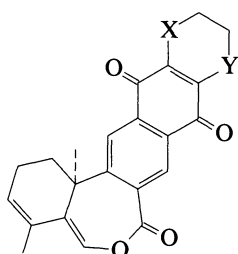
[151171-18-5]

 $C_{20}H_{16}O_4$ M 320.344Constit. of *Xestospongia* cf. *carbonaria*. Yellow powder. $[\alpha]_D +32^\circ$.Alvi, K.A. *et al*, *J. Org. Chem.*, 1993, **58**, 4871 (*isol*, *pmr*, *cmr*)

Xestoquinolide B

X-10009

[151247-69-7]

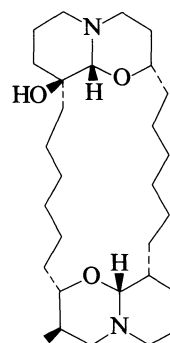
 $X, Y = -NH-, -SO_2-$ $C_{22}H_{19}NO_6S$ M 425.4612 Possible isomeric structs. not yet distinguished. Constit. of *Xestospongia* cf. *carbonaria*. Yellow powder.Alvi, K.A. *et al*, *J. Org. Chem.*, 1993, **58**, 4871 (*isol*, *pmr*, *cmr*)

Xestospongins B

X-10010

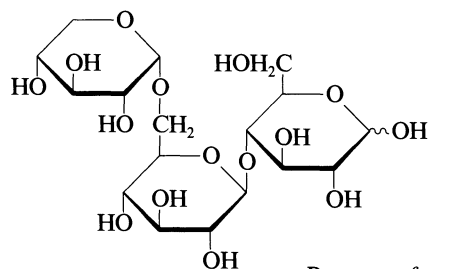
Updated Entry replacing X-00088

[88840-01-1]

 $C_{29}H_{52}N_2O_3$ M 476.741Isol. from the marine sponge *Xestospongia exigua*. Shows vasodilator props. Cryst. (Et₂O). Mp 179-181°. $[\alpha]_D +7.10^\circ$ (c, 0.91 in CHCl₃).**Demethyl: Demethylxestospongins B** $C_{28}H_{50}N_2O_3$ M 462.715Alkaloid from a New Caledonian sponge *Xestospongia* sp. Amorph. $[\alpha]_D^{20} +6^\circ$ (c, 0.8 in CHCl₃).Nakagawa, M. *et al*, *Tetrahedron Lett.*, 1984, **25**, 3227 (*ir*, *pmr*, *cmr*, *struct*)Quirion, J.-C. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1505 (*Demethylxestospongins B*) α -D-Xylopyranosyl-(1→6)- β -D-glucopyranosyl-(1→4)-D-glucose, 9CI

X-10011

[69637-98-5]



Pyranose-form

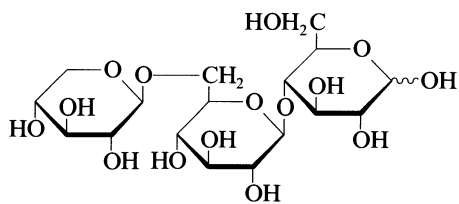
 $C_{17}H_{30}O_{15}$ M 474.415Isol. from the enzymatic hydrolysates of tamarind polysaccharide, Jack pine (*Pinus banksiana*) glucomannan, leaves of *Nicotiana tabacum*, and other polysaccharide sources. $[\alpha]_D +74^\circ$ (c, 0.5 in H₂O).Mori, M. *et al*, *Agric. Biol. Chem.*, 1979, **43**, 145 (*isol*)Kato, Y. *et al*, *Carbohydr. Res.*, 1982, **109**, 233.Watanabe, T. *et al*, *Carbohydr. Res.*, 1984, **129**, 229.Zong, N. *et al*, *Agric. Biol. Chem.*, 1989, **53**, 2129 (*isol*)York, W.S. *et al*, *Carbohydr. Res.*, 1990, **200**, 9 (*ms*, *cmr*)

β -D-Xylopyranosyl-(1→6)- β -D-glucopyranosyl-(1→4)-D-glucose, 9CI
[88123-45-9]

X-10012

α -D-Xylopyranosyl-(1→4)- α -D-xylopyranosyl-(1→6)-D-glucose, 9CI
[125583-30-4]

X-10013

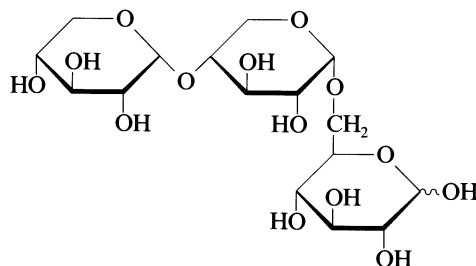


Pyranose-form

 $C_{17}H_{30}O_{15}$ M 474.415

Trans glucosylation product, formed by yeast *Cryptococcus albidus*. Cryst. (MeOH). Mp 225-226°. $[\alpha]_D^{20} -3^\circ$ (c, 1.0 in H_2O).

Biely, P. *et al*, *Carbohydr. Res.*, 1983, **123**, 97 (*synth, pmr*)

 $C_{16}H_{28}O_{14}$ M 444.389

Transxylosylation product, formed by the action of *Bacillus* α -D-xylosidase on Isoprimeverose, I-00670. $[\alpha]_D +143.5^\circ$ (c, 0.29 in H_2O).

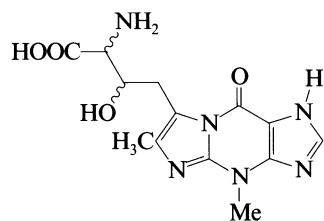
Zong, N. *et al*, *Agric. Biol. Chem.*, 1989, **53**, 3329 (*synth, pmr*)

Y

Ye-base

α -Amino-4,9-dihydro- β -hydroxy-4,6-dimethyl-9-oxo-1H-imidazo[1,2-a]purine-7-butanoic acid, 9CI

[70363-41-6]



$C_{13}H_{16}N_6O_4$ M 320.307

Isol. from transfer RNA of Ehrlich ascites cells.

Kuchino, Y. *et al*, *Biochim. Biophys. Acta*, 1979, **565**, 215 (*isol*)

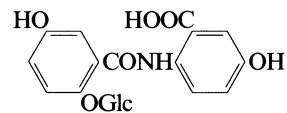
Y-10001

Yokonoside

Y-10002

2-[[2-(β -D-Glucopyranosyloxy)-5-hydroxybenzoyl]amino]-5-hydroxybenzoic acid, 9CI

[53823-12-4]



$C_{20}H_{21}NO_{11}$ M 451.386

Isol. from the roots of *Aconitum japonicum*. Powder. Mp 205-210°.

[61377-88-6]

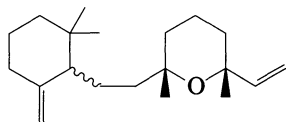
Kosuge, T. *et al*, *Chem. Pharm. Bull.*, 1976, **24**, 176 (*isol*)

Naruta, S. *et al*, *Yakugaku Zasshi*, 1976, **96**, 945 (*synth*)

Z

Zaatirin

[145458-10-2]



$C_{20}H_{34}O$ M 290.488

Constit. of *Chelonaplysilla erecta*. Oil.

Rudi, A. *et al*, *J. Nat. Prod. (Lloydia)*, 1992, **55**, 1408 (*isol, pmr, cmr*)

Z-10001

Zervamicin ZL

Z-10003

l-(*N*-Acetyl-*L*-leucine-3-*L*-glutamine)zervamicin IC, 9CI
[135995-68-5]

Ac-Leu-Ile-Gln-*D*-Iva-Ile-Thr-Aib-Leu-Aib-Hyp-Gln-Aib-
Hyp-Aib-Pro-Ph-OH

$C_{85}H_{140}N_{18}O_{22}$ M 1766.148

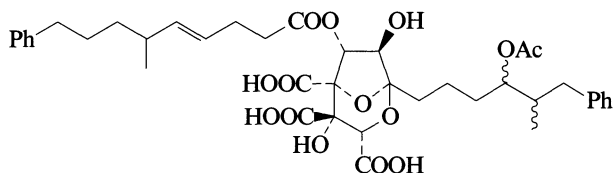
Oligopeptide antibiotic. Isol. from *Emericellopsis salmosynnemata*. Shows membrane ion-channel forming activity.

Karle, I.L. *et al*, *Proc. Natl. Acad. Sci. U.S.A.*, 1991, **88**, 5307 (*isol, cryst struct*)

Zaragozic acid C

[137681-56-2]

Z-10002



$C_{40}H_{50}O_{14}$ M 754.827

Metab. of *Leptodontium elatius*. Inhibitor of squalene synthase. Powder. $[\alpha]_D^{20} +9.6^\circ$ (c, 0.29 on EtOH).

Dufresne, C. *et al*, *Tetrahedron*, 1992, **48**, 10221 (*isol, pmr, cmr*)

Name Index

This Index becomes invalid after publication of the Second Supplement.

The Name Index lists in alphabetical order all names and synonyms contained in the First Supplement.

Each index term refers the user to a Dictionary Number consisting of a single letter of the alphabet followed by five digits. The letter is the first letter of the relevant Entry Name.

The first digit of the Dictionary Number (printed in bold type) indicates the number of the Supplement in which the entry is printed.

A Dictionary Number which follows immediately upon an index term means that the term is itself used as the Entry Name.

A Dictionary Number which is preceded by the word '*see*' means that the term is a synonym to an Entry Name.

A Dictionary Number which is preceded by the word '*in*' means that the term is embedded within an Entry, usually as a synonym to a particular stereoisomeric form or to a derivative.

The symbol ▷ preceding an index term indicates that the Dictionary Entry contains information on toxic or hazardous properties of the compound.

The symbol † following an index term indicates that the name is known to the editors as being a duplicate and has been assigned to two or more different compounds. For further details refer to DNP Volume 1, page xiv.

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AB 023B, *in* A-10097
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Abelioside B, A-10001
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18(4→3)-Abeo-7,8:13,14-diepoxy-9,11,13-trihydroxy-4-abieten-18,19-olide, A-10004
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1 β -Acetoxy-12 α ,13 α -epoxy-2-cyathene, *in* C-10152
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5-Acetoxytriacontane, *in* T-10101
3-Acetoxy-4',5,7-trihydroxy-6-methoxyflavanone, *in* P-10051
15 α -Acetoxy-5,6 β ,14-trihydroxy-1-oxo-5 α ,20S,22R-witha-2,16,24-trienolide, *see* W-10005
8 α -Acetoxyzaluzanin C, *in* D-10175
8 α -Acetoxyzaluzanin D, *in* D-10175
25-Acetylacerinol, *in* A-10012
6-O-Acetylacrosceptine, *in* A-10025
2'-O-Acetylfazelin, *in* A-10030
3'-O-Acetylfazelin, *in* A-10030
4'-O-Acetylfazelin, *in* A-10030
2-(Acetylamino)-3-carboxy-N,N,N-trimethyl-1-propanaminium hydroxide inner salt, *in* D-10044
4-(Acetylamino)-4,6-dideoxy- β -D-glucopyranosyl-(1→2)[6-deoxy- β -D-glucopyranosyl-(1→4)]-6-deoxy-D-glucose, *see* V-10028
8-(Acetylamino)-5,6,7,8-tetrahydro-6,7-dihydroxy-5-(hydroxymethyl)imidazo[1,2-a]pyridine-2-acetic acid, *see* N-10002
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N-Acetylaminolobine, *in* A-10132
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3-O-Acetylbeiwutine, *in* A-10021
2-Acetyl-1,3,5-benzenetriol, *see* T-10129
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25-O-Acetylbryoamaride, *in* C-10140
15-N-Acetylapparisine, *in* C-10020
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11-Acetyl-4-deacetoxy-11-deacetylasbestinin 1, *in* A-10130
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O-Acetylerucifoline, *in* E-10189
16-O-Acetyletioline, *in* E-10206
8-Acetylexcelcine, *in* M-10089
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4 2 - α -D-Acetylglactosaminyl-4- β -galactosyl-N-acetylglucosamine, *in* A-10063
3 2 - α -N-Acetylglactosaminyl-3- β -galactosyl-N-acetylglucosamine, *in* A-10061
3 2 - β -N-Acetylglactosaminyl-4- β -galactosyl-N-acetylglucosamine, *in* A-10062
4 2 - β -N-Acetylglucosaminyl-4- β -N-acetylglucosaminyl-N-acetylglucosamine, *in* A-10064
3 2 - β -N-Acetylglucosaminyl-lacto-N-biose I, *in* A-10066
6 2 - β -N-Acetylglucosaminyl-lacto-N-biose I, *in* A-10067
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3 2 - β -N-Acetylglucosaminyl-lactose, *in* A-10068
4-N-Acetylglucosaminylribitol, *in* A-10069
N 5 -Acetyl-N 2 - γ -glutamylornithine, *in* G-10095
8-Acetylgoniotriol, *in* G-10109
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3'-Acetylheliosupine N-oxide, *in* H-10011
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- 7-Acetyl-2-hydroxy-8-methoxy-6-methyl-1,4-naphthoquinone, *in* A-10017
- 7-Acetyl-8-hydroxy-2-methoxy-6-methyl-1,4-naphthoquinone, *in* A-10017
- 6-Acetyl-2-hydroxy-1-methoxynoraporphine, *in* A-10132
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- Acetylisosaturejol, *in* I-10051
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- 3'-Acetylasiocarpine *N*-oxide, *in* L-10032
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- 1-(*N*-Acetyl-L-leucine-3-L-glutamine) zervamicin IC, *see* Z-10003
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- 2-Acetyl-1-*O*-methyl-6-*O*-prenylphloroglucinol, *in* T-10129
- 6-Acetyl-3-methyl-2*H*-pyran-2-one, *see* G-10032
- 6'-Acetylmicrolepin, *in* K-10005
- 17-*O*-Acetylmicrolepin, *in* K-10005
- 6-Acetylnimbandioli, *in* N-10026
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- ▷ 2-Acetyloxybenzoic acid, *see* A-10014
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- 10-Acetylpanaxytriol, *in* H-10024
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 4,18:15,16-Diepoxy-13(16),14-clerodadiene-3,6,12,19-tetrol, D-10066
 12,20:15,16-Diepoxy-3,8(17),13(16),14-clerodatetraen-19,20-olid-18-oic acid, D-10067
 12,13:15,16-Diepoxy-3-clerodene-15,16-diol, D-10068
 18,24:20,24-Diepoxy-3-cloartane-3,15,16,25-tetrol, D-10069
 16,23:16,24-Diepoxy-7-ene-3,15,25-triol, D-10070
 3,19:20,24-Diepoxydammarane-3,25-diol, D-10071
 17,24:20,24-Diepoxydammarane-3,25-diol, D-10072
 16,18:16,23-Diepoxydammar-24-ene-3,20-diol, *see* J-10007
 2,3:8,9-Diepoxy-4,6-decadiene-1,10-diol, D-10073
 15,16:18,19-Diepoxy-6,18-dihydroxy-13(16),14-clerodadien-20,12-olide, D-10074
 16,23:16,24-Diepoxy-15,25-dihydroxycloart-7-en-3-one, *in* D-10070
 4,18:15,16-Diepoxy-2,19-dihydroxy-6-oxo-13(16),14-clerodadien-20,12-olide, D-10075
 1,8:4,5-Diepoxy-7(11),9-germacradiene-12,8,14,6-diolide, D-10076
 4,5:8,12-Diepoxy-1(10),7,11-germacatrien-15,6-olide, *in* E-10089
 1,10:4,5-Diepoxy-7(11)-germacrene-12,8:15,6-diolide, D-10077
 1,10:4,5-Diepoxy-11-germacren-9-ol, *in* G-10027
 1,10:4,5-Diepoxy-7(11)-germacren-12,8-olide, D-10078
 1,10:8,14-Diepoxy-14-hydroxy-4,11(13)-germacradien-12,6-olide, D-10079
 1,10:4,5-Diepoxy-8-hydroxy-7(11)-germacren-12,8-olide, D-10080
 7,8:9,13-Diepoxy-17-hydroxy-15-labdanoic acid, D-10081
 9,13:15,16-Diepoxy-7-hydroxy-14-labden-6-one, D-10082
ent-15,16:18,19-Diepoxy-18-hydroxy-6-oxo-13(16),14-clerodadien-20,12-olide, *in* D-10074
 1 β ,10 α :4 α ,5 β -Diepoxy-8 α -isobutoxyglechomanolide, *in* D-10080
 1 β ,10 α :4 α ,5 β -Diepoxy-8 β -isobutoxyglechomanolide, *in* D-10080
 7,20:11,12-Diepoxy-16-kaurene-6,7,15-triol, D-10083
 5,8:11,12-Diepoxy-18-nor-3,6-dioxo-11,15-cembradien-20,10-olide, *in* E-10134
 2,3:6,7-Diepoxy-9-oxabicyclo[3.3.1]nonane, *see* T-10202
 3,4:15,16-Diepoxy-12-oxo-13(16),14-clerodadien-17-oic acid, D-10084
 8 β ,20*R*:11 β ,20-Diepoxy-5 α -pregnane-3 β ,12 β ,14 β -triol, *see* T-10016
 6,12:9,10-Diepoxy-6,11-pseudoguaiadien-8-one, *in* E-10145
 21,23:22,28-Diepoxy-2,7,9(11)-diene-3,16,21,24,28-pentol, D-10085
 4,10:15,16-Diepoxy-3,6,18,19-tetrahydroxy-13(16),14-clerodadien-7-one, D-10086
 7 β ,8 β :12,13-Diepoxy-4 β -trichothecenol, *see* C-10135
 4,18:8,13-Diepoxy-6,7,19-trihydroxy-15,16-clerodanolide, D-10087
 1,10:4,5-Diepoxy-8,13,14-trihydroxy-2,7(11)-germacradien-12,6-olide, D-10088
 6,7:18,19-Diepoxy-1(9),13-xenicadiene-18,19-diol, D-10089
 2,2-Diethoxypropanamide, *in* P-10180
 2,2-Diethoxypropanoic acid, *in* P-10180
 2-*O*-Digalloyl-1,3,4,6-tetra-*O*-galloyl- β -D-glucopyranose, *in* P-10035

- 3-*O*-Digalloyl-1,2,4,6-tetra-*O*-galloyl- β -D-glucopyranose, *in* P-10035
- 4-*O*-Digalloyl-1,2,3,6-tetra-*O*-galloyl- β -D-glucopyranose, *in* P-10035
- 6-*O*-Digalloyl-1,2,3,4-tetra-*O*-galloyl- β -D-glucopyranose, *in* P-10035
- 3-*O*-Digalloyl-1,2,6-tri-*O*-galloyl- β -D-glucopyranose, *in* T-10024
- 6-*O*-Digalloyl-1,2,3-tri-*O*-galloyl- β -D-glucopyranose, *in* T-10024
- Digiferruginol, *see* H-10162
- ▶ Digitoflavone, *see* T-10052
- 3,6-Diglucosaminylgalactose, *see* A-10065
- 3,6-Di- α -glucosylglucose, *see* G-10050
- 2,4-Diglucosyl-1-hydroxy-3,6,7-trimethoxyxanthone, *in* D-10090
- 2,4-Diglucosyl-1,3,6,7-tetrahydroxanthone, D-10090
- 6,8-Diglucosyl-3',4',7'-trihydroxyflavone, D-10091
- 14,15-DiHETE, *see* D-10146
- Dihydroagarofuran, *in* A-10031
- cis*-Dihydroagarofuran, *in* A-10031
- Dihydro- β -agarofuran-15-oic acid, *in* H-10110
- Dihydroagosterol, *in* L-10023
- Dihydroajugamarin, *in* E-10150
- Dihydroajugapitin, *in* T-10122
- 1,2 β -Dihydroakuammiline, *in* A-10036
- 6a,11a-Dihydro-6*H*-benzofuran[3,2-*c*][1]benzopyran, *see* P-10168
- Dihydrocajanin, *in* T-10055
- Dihydrochiapagenin, *in* S-10099
- Dihydrocroverin, *in* D-10067
- Dihydrodecompositin, *in* H-10148
- 25,27-Dihydro-4,7-didehydro-7-deoxyphysalin A, D-10092
- 2,3-Dihydro-5,7-dihydroxy-6,8-bis(3-methyl-2-butenyl)-4*H*-1-benzopyran-4-one, *see* D-10141
- 2,3-Dihydro-5,7-dihydroxy-3-(2,4-dihydroxyphenyl)-4*H*-1-benzopyran-4-one, *see* T-10055
- 3,4-Dihydro-5,7-dihydroxy-3-(2,4-dihydroxyphenyl)-6-(3-methyl-2-butenyl)-2*H*-1-benzopyran, *see* T-10068
- 14,15-Dihydro-14,15-dihydroxygeranylinalol, *in* P-10112
- 5b,8a-Dihydro-5,7-dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-6-methyl-4*H*,8*H*-cyclopenta[4.5]furo[3,2-*g*]-1-benzopyran-4,8-dione, *see* T-10093
- 2,3-Dihydro-3,7-dihydroxy-3-[(4-hydroxyphenyl)methyl]-4*H*-1-benzopyran-4-one, *see* D-10178
- ▶ 1,3-Dihydro-1,4-dihydroxy-10-methoxy-5,8-dimethyl-3,7-dioxo-7*H*-isobenzofuro[4,5-*b*][1,4]benzodioxepin-11-carboxaldehyde, *see* S-10118
- 9,10-Dihydro-2,5-dihydroxy-7-methoxy-1-prenylphenanthrene, *in* D-10104
- 3,4-Dihydro-7,8-dihydroxy-3-methyl-1*H*-2-benzopyran-1-one, D-10093
- 1-[2,3-Dihydro-3,6-dihydroxy-2-(1-methylethenyl)-5-benzofuranyl]ethanone, *see* A-10016
- 3,4-Dihydro-7,8-dihydroxy-3-methylisocoumarin, *see* D-10093
- 3,4-Dihydro-3,4-dihydroxy-2-methyl-2*H*-pyran, *see* D-10098
- 9,10-Dihydro-4,5-dihydroxy-10-oxo-2-anthracenecarboxylic acid, D-10094
- 9,10-Dihydro-4,5-dihydroxy-10-oxo-2-anthroic acid, *see* D-10094
- 10',10'*a*-Dihydro-4,5-dimethoxy-3',3'-dimethylspiro[3,5-cyclohexadiene-1,8'-[3*H*,8*H*]furo[3,4-*e*]benzo[1,2-*b*:3,4-*b'*]dipyrans]-2,7'(7*th*)-dione, *see* A-10074
- 3,4-Dihydro-7,8-dimethoxy-3-methylisocoumarin, *in* D-10093
- 4,5-Dihydro-9,10-dimethoxypyrrolo[3,2,1-*de*]phenanthridinium, *see* V-10016
- 3-(3,4-Dihydro-4,7-dimethyl-2*H*-1-benzopyran-2-yl)-2-methyl-2-propenal, *see* E-10033
- 3,11-Dihydro-3,5-dimethyl-3-(4-methyl-3-pentenyl)pyrano[3,2-*c*]carbazole, *see* M-10003
- 17*R*,18-Dihydroelemacaranin, *in* T-10145
- Dihydroepideoxyarteannuin B, *in* C-10007
- Dihydroepilanolsterol, *in* L-10024
- Dihydroeurycomalactone, *in* E-10232
- 2,5-Dihydrofuran, D-10095
- 9,10-Dihydro-2-hydroxy-5,7-dimethoxy-1-prenylphenanthrene, *in* D-10104
- 2,3-Dihydro-3 β -hydroxyreglomerulide, *in* T-10179
- 4,5-Dihydro-3-hydroxy-5-(hydroxymethyl)-2(3*H*)-furanone, D-10096
- 2,3-Dihydro-5-hydroxy-2-(4-hydroxyphenyl)-6-(3-methyl-2-butenyl)-4*H*-1-benzopyran-4-one, *see* D-10246
- 9,10-Dihydro-7-hydroxy-2-methoxy-8-(3-methyl-2-butenyl)-1,4-phenanthrene-dione, *see* S-10092
- 9,10-Dihydro-7-hydroxy-2-methoxy-8-prenyl-1,4-phenanthraquinone, *see* S-10092
- 2,3-Dihydro-7-hydroxy-8-(3-methyl-2-butenyl)-2-phenyl-4*H*-1-benzopyran-4-one, *see* H-10222
- 1,11-Dihydro-5-hydroxy-11-methyl-2-(1-methylethenyl)furo[2,3-*c*]acridin-6(2*H*)-one, *see* R-10062
- 6,9-Dihydro-7-hydroxy-7-methyl-2-(1-methylethylidene)-7*H*-furo[3,2-*h*][2]benzopyran-3(2*H*)-one, *see* P-10079
- 1,5-Dihydro-5-hydroxy-3-methyl-1-(5-oxo-2-pyrrolidinyl)-2*H*-pyrrol-2-one, *see* O-10062
- 5,6-Dihydro-4-hydroxy-6-methyl-2*H*-pyran-2-one, D-10097
- 7,8-Dihydro-3-hydroxy-1,2,10,11,12-pentamethoxy-6,7-dimethylidibenzo[*a,c*]cycloocten-5(6*H*)-one, *see* S-10035
- 3,4-Dihydro-3-[(4-hydroxyphenyl)methyl]-2*H*-1-benzopyran-3,4,7-triol, *see* H-10086
- 5,10-Dihydro-5 α -hydroxy-10 β *H*-printziane, *in* A-10006
- 3,4-Dihydro-7-hydroxy-3-(2,3,4-trihydroxyphenyl)-2*H*-1-benzopyran, *see* T-10054
- Dihydro-19-hydroxyvincamajinine, *in* V-10023
- 2,3-Dihydro-3-hydroxywithacnistin, *in* W-10002
- Dihydrohyperin, *in* P-10050
- 24,25-Dihydroochromolide, *in* I-10016
- Dihydroisorhamnetin, *in* P-10050
- 11,13-Dihydroivalin, *in* H-10141
- Dihydrolanolsterol, *in* L-10024
- Dihydrolanolsteryl oleate, *in* L-10024
- Dihydrologicaudatine, *in* L-10060
- Dihydromahubanolide A, *in* H-10044
- Dihydromahubanolide B, *in* H-10044
- Dihydromahubenolide A, *in* H-10044
- Dihydromahubenolide B, *in* H-10044
- Dihydromahubynolide B, *in* H-10044
- 5,6-Dihydro-4-methoxy-6-methyl-2*H*-pyran-2-one, *in* D-10097
- 9,10-Dihydro-1-(3-methyl-2-butenyl)-2,5,7-phenanthrenetriol, *see* D-10104
- 3,4-Dihydro-2-methyl-2*H*-pyran-3,4-diol, D-10098
- cis*-Dihydronarciclasine, *in* N-10004
- trans*-Dihydronarciclasine, *in* N-10004
- Dihydro- α -norcurcumenic acid, *see* T-10199
- Dihydro-5-(1-octenyl)-2(3*H*)-furanone, D-10099
- ▶ 6,7-Dihydroonnamide A, *in* O-10035
- 8,9-Dihydroonoseriolide, *in* S-10060
- 1-(2,3-Dihydro-2-oxo-3-furanyl)-5-(hydroxymethyl)-1*H*-pyrrole-2-carboxaldehyde, D-10100
- ▶ 6,7-Dihydro-11-oxoamide A, *in* O-10035
- Dihydrooxyresveratrol, *see* T-10038
- Dihydropentagnine, *in* B-10021
- Dihydropergillaric, *in* P-10079
- Dihydropertusarinic acid, *in* M-10093
- 3,4-Dihydro-2-phenyl-2*H*-1-benzopyran-3,5,7-triol, *see* T-10147
- 3,4-Dihydro-4-propylidene-2*H*-pyrrole-2-carboxylic acid, D-10101
- ▶ Dihydroquercetin, *see* P-10050
- Dihydroreynosin, *in* H-10140
- Dihydroorhamnetin, *in* P-10050
- Dihydro- α -santalal acid, *in* S-10015
- Dihydrosolasodine, *see* S-10071
- 10-Dihydrosteffimycin, *in* S-10109
- 10-Dihydrosteffimycin B, *in* S-10109
- Dihydrosyringenin, *in* S-10065
- Dihydrotamaulipin A, *in* H-10153
- 8,13-Dihydro-1,7,9,11-tetrahydroxy-13,13-dimethyl-8-oxo-3-pentylbenzo[*a*]naphthalene-2-carboxylic acid, *see* B-10011
- 2,3-Dihydro-3,5,6,7-tetrahydroxy-2-(4-hydroxyphenyl)-4*H*-1-benzopyran-4-one, *see* P-10051
- 3,4-Dihydro-3,6,8,9-tetrahydroxy-3-methyl-1(2*H*)-anthracenone, D-10102
- 12,16-Dihydro-6,7,12,14-tetrahydroxy-16-oxovinhalic acid, D-10103
- 6a,12*b*-Dihydro-3,10,11,12-tetrahydroxy-6-(3,4,5-trihydroxyphenyl)[2]benzopyrano[3,4-*c*][1]benzopyran-8[6*H*]one, *in* D-10232
- 3,4-Dihydro-2,4,7-trihydroxy-2,3-diethyl-1(2*H*)-naphthalenone, *see* A-10128
- 3,4-Dihydro-3,8,9-trihydroxy-6-methoxy-3-methyl-1(2*H*)-anthracenone, *in* D-10102
- 3,4-Dihydro-4,5,7-trihydroxy-6-methyl-2*H*-1-benzopyran-8-carboxaldehyde, *see* T-10148
- 2,3-Dihydro-6,8,9-trihydroxy-1-oxo-1*H*-benzo[*j*]naphth[1,8-*bc*]oxepin-2-carboxylic acid, *see* S-10005
- 9,10-Dihydro-2,5,7-trihydroxy-1-prenylphenanthrene, D-10104
- 2,3-Dihydro-2,3,5-trimethyl-6-(1-methyl-1-butenyl)-4*H*-pyran-4-one, *see* S-10110
- Dihydro-*ar*-turmerone, *in* B-10029
- 19,20-Dihydrousambarensine, *in* U-10013
- Dihydrovaldivone A, *in* D-10162
- 14,15-Dihydrovindolinine, *in* V-10024
- 24,25-Dihydrowithacnistin, *in* W-10002
- 6 β ,7 β -Dihydroxy-12*E*-abiolen, *in* L-10008
- 3,19-Dihydroxy-8,12-abietadiene-11,14-dione, D-10105
- 7,12-Dihydroxy-8,12-abietadiene-12,6-olide, D-10106
- 6,12-Dihydroxy-5,8,11,13-abietatetraen-7-one, *in* M-10088
- 1,8-Dihydroxy-9(10*H*)-acridinone, *see* D-10107
- 1,8-Dihydroxyacridone, D-10107
- Dihydroxyaerolithionin, *in* A-10028
- 2,3-Dihydroxybenzaldehyde, D-10108
- 2,4-Dihydroxybenzaldehyde, D-10109
- α ,3-Dihydroxybenzeneacetic acid, *see* H-10166
- 3,4-Dihydroxybenzeneethanol, *see* D-10235
- 2,4-Dihydroxybenzenepropanoic acid, *see* D-10242
- ▶ α ,4-Dihydroxybenzenepropanoic acid, *see* H-10167
- ▶ 3,5-Dihydroxybenzoic acid, D-10110
- 3,7-Dihydroxy-4*H*-1-benzopyran-4-one, D-10111
- 4-[[[(3,4-Dihydroxybenzoyl)oxy]methyl]-2-hydroxyphenyl β -D-glucopyranoside, *see* O-10017
- 3-(3,4-Dihydroxybenzyl)-3,4,7-chromantriol, D-10112
- 3-(3,4-Dihydroxybenzyl)-3,7-dihydroxy-4-chromanone, D-10113
- 3-(3,4-Dihydroxybenzyl)-4-methoxy-3,7-chromanediol, *in* D-10112
- 2,17-Dihydroxy-2,15-beyeradien-1-one, D-10114
- 2,19-Dihydroxy-2,15-beyeradien-1-one, D-10115
- 1,17-Dihydroxy-15-beyeren-2-one, *in* D-10117
- 1,19-Dihydroxy-15-beyeren-2-one, D-10116
- 2,17-Dihydroxy-15-beyeren-1-one, D-10117
- 2,19-Dihydroxy-15-beyeren-1-one, D-10118

- 7,10-Dihydroxy-2,11-bisaboladien-15-oic acid, D-10119
- 7,11-Dihydroxy-2,9-bisaboladien-15-oic acid, D-10120
- 3,12-Dihydroxy-20,22-bufadienolide, D-10121
- 3,14-Dihydroxycarda-16,20(22)-dienolide, D-10122
- ▶ 3 β ,14 β -Dihydroxy-5 α -card-20(22)-enolide, *see* U-10020
- 2,3-Dihydroxy- β , β -carotene-4,4'-dione, D-10123
- 3,3'-Dihydroxy- β , κ -carotene-4,6'-dione, *in* L-10053
- 2,4-Dihydroxycelorbicol, *see* P-10045
- 11,12-Dihydroxy-1,3-cembradien-7-one, D-10124
- 4,6-Dihydroxy-2,7,11-cembratrien-10-one, *in* C-10057
- 4,10-Dihydroxy-2,7,11-cembratrien-6-one, *in* C-10057
- 2,4-Dihydroxychalcone, D-10125
- 3,3'-Dihydroxychalcone, D-10126
- 6-(3,7-Dihydroxychroman-2-yl)-4-(2,4-dihydroxyphenyl)-3,3',4',8-tetrahydroxyflavan, D-10127
- 3,7-Dihydroxychromone, *see* D-10111
- 2,8-Dihydroxy-3,13-clerodadiene-6,18:15,16-diolide, D-10128
- 3 β ,26-Dihydroxycucurbita-5,24E-dien-11-one, *in* C-10142
- 3 β ,26-Dihydroxycucurbita-5,24Z-dien-11-one, *in* C-10142
- 3 α ,22-Dihydroxycycloart-24-en-26-oic acid, *in* C-10165
- 3 β ,22-Dihydroxycycloart-24-en-26-oic acid, *in* C-10165
- 3,16-Dihydroxy-24-cycloarten-6-one, D-10129
- 2,3-Dihydroxy-2,4-cyclopentadien-1-one, D-10130
- 12,20-Dihydroxydammar-24-en-3-one, *in* D-10011
- 4,6-Dihydroxy-7-daucen-9-one, D-10131
- 4,6-Dihydroxy-8-daucen-10-one, D-10132
- 1,6-Dihydroxy-2,4-dimethoxyanthraquinone, *in* T-10037
- 3',5-Dihydroxy-4',7-dimethoxydihydroflavonol, *in* P-10050
- 4',5-Dihydroxy-3',7-dimethoxydihydroflavonol, *in* P-10050
- 3',7-Dihydroxy-4',5-dimethoxyflavone, *in* T-10052
- 2',7-Dihydroxy-3',4'-dimethoxyisoflavan, *in* T-10054
- 4',7-Dihydroxy-2',3'-dimethoxyisoflavan, *in* T-10054
- 4',5-Dihydroxy-2',7-dimethoxyisoflavanone, *in* T-10055
- 4',7-Dihydroxy-2',5-dimethoxyisoflavanone, *in* T-10055
- 5,7-Dihydroxy-2',4'-dimethoxyisoflavanone, *in* T-10055
- 1,5-Dihydroxy-2,3-dimethoxy-10-methylacridone, *in* T-10036
- 2',4'-Dihydroxy-5,7-dimethoxy-6-prenylisoflavan, *in* T-10068
- 4',7-Dihydroxy-2',5-dimethoxy-6-prenylisoflavan, *in* T-10068
- 1,8-Dihydroxy-2,6-dimethoxyxanthone, *in* T-10073
- 2,6-Dihydroxy-1,8-dimethoxyxanthone, *in* T-10073
- 2,8-Dihydroxy-1,6-dimethoxyxanthone, *in* T-10073
- 6,8-Dihydroxy-1,2-dimethoxyxanthone, *in* T-10073
- 5,7-Dihydroxy-2,6-dimethyl-4*H*-1-benzopyran-4-one, D-10133
- 5,7-Dihydroxy-2,8-dimethyl-4*H*-1-benzopyran-4-one, D-10134
- 5,7-Dihydroxy-2,6-dimethylchromone, *see* D-10133
- 5,7-Dihydroxy-2,8-dimethylchromone, *see* D-10134
- 11,12-Dihydroxy-3,9-dimethyl-2,8-dioxacyclotetradeca-5,13-diene-1,7-dione, *see* C-10115
- 11,12-Dihydroxy-6,14-dimethyl-1,7-dioxacyclotetradeca-3,9-diene-2,8-dione, *see* C-10115
- 5,8-Dihydroxy-2,6-dimethyl-2,6-octadienoic acid, D-10135
- 12,16-Dihydroxy-20,24-dimethyl-24-oxo-25-scalaranal, D-10136
- 2',4'-Dihydroxy-6'',6''-dimethyl-8-prenylpyrano(2'',3'',7,6)isoflavanone, *see* B-10022
- 2',4'-Dihydroxy-7,6-(2,2-dimethylpyrano)-8-prenylflavanone, *see* D-10234
- 12,24-Dihydroxy-20,24-dimethyl-15,17-scalaradien-25,24-olide, D-10137
- 12,16-Dihydroxy-20,24-dimethyl-17-scalaren-25,24-olide, D-10138
- 3,20-Dihydroxy-24,29-dinor-1(10),3,5,7-friedelatetraene-2,21-dione, *in* T-10091
- 3,22-Dihydroxy-24,29-dinor-1(10),3,5,7-friedelatetraene-2,21-dione, *in* T-10091
- 4,13-Dihydroxy-15,16-dinor-5-pictanone, *see* D-10139
- 4,13-Dihydroxy-15,16-dinor-4,5-seco-5-rosanone, D-10139
- 7,12-Dihydroxy-11,14-dioxo-8,12-abietadien-18-oic acid, D-10140
- 5,7-Dihydroxy-6,8-diprenylflavanone, D-10141
- 2,10-Dihydroxy-3,11-dodecadien-5-one, D-10142
- 3,8-Dihydroxy-12,11-drimanolide, D-10143
- 3,11-Dihydroxy-8(12)-drimen-13-oic acid, D-10144
- threo*-2'',3''-Dihydroxyechiumine, *in* E-10004
- 5,12-Dihydroxy-6,8,10,14,17-eicosapentaenoic acid, D-10145
- 14,15-Dihydroxy-5,8,10,12-eicosatetraenoic acid, D-10146
- 5,6-Dihydroxy-8,11,14-eicosatrienoic acid, D-10147
- 5,12-Dihydroxy-6,8,10-eicosatrienoic acid, D-10148
- 8,9-Dihydroxy-5,11,14-eicosatrienoic acid, D-10149
- 14,15-Dihydroxy-5,8,11-eicosatrienoic acid, D-10150
- 1,3-Dihydroxy-9,11-eremophiladien-8-one, D-10151
- 3,7-Dihydroxy-9,11-eremophiladien-8-one, D-10152
- 3,11-Dihydroxy-7,9-eremophiladien-8-one, D-10153
- 3,12-Dihydroxy-9,11(13)-eremophiladien-8-one, D-10154
- 8 α ,9 α -Dihydroxy-10 β *H*-eremophil-11-en-2-one, *in* E-10170
- 3,25-Dihydroxyergosta-5,24(28)-dien-7-one, D-10155
- 1 β ,11 β -Dihydroxyerythroxydiol X, *in* D-10043
- 15,16-Dihydroxy-3-erythroxylen-7-one, D-10156
- ▶ 1,3-Dihydroxy-2-(ethoxymethyl)anthraquinone, *in* D-10180
- 5,9-Dihydroxy-4(15),11(13)-eudesmadien-12-oic acid, D-10157
- 1,3-Dihydroxy-4(15),11(13)-eudesmadien-12,6-olide, D-10158
- 1,8-Dihydroxy-3,11(13)-eudesmadien-12,6-olide, D-10159
- 1 α ,3 α -Dihydroxy-4(15)-eudesmen-12,6 α -olide, *in* D-10158
- 1 β ,3 α -Dihydroxy-4(15)-eudesmen-12,6 α -olide, *in* D-10158
- 3,11-Dihydroxy-3-eudesmen-2-one, D-10160
- 3,11-Dihydroxy-6-eudesmen-8-one, D-10161
- 7,11-Dihydroxy-3,9,12-eunicellatrien-2-one, D-10162
- 3 α ,6 β -Dihydroxyeurypsin, *in* F-10030
- 3 β ,19 α -Dihydroxy-24-*trans*-ferulyloxy-12-ursen-28-oic acid, *in* T-10195
- 2',5'-Dihydroxyflavone, D-10163
- 2',7-Dihydroxyflavone, D-10164
- 7,8-Dihydroxyflavone, D-10165
- 4,7-Dihydroxy-8-formyl-5-methoxy-6-methylflavan, *in* T-10148
- 6,26-Dihydroxy-3,21-friedelanedione, *in* D-10166
- 6,26-Dihydroxy-3-friedelanone, D-10166
- 21,26-Dihydroxy-3-friedelanone, D-10167
- 3,6-Dihydroxyfuranoteremophilan-9-one, D-10168
- 4,6-Dihydroxyfuranoteremophilan-9-one, D-10169
- 3,6-Dihydroxyfuranoteremophil-1(10)-ene, *see* F-10030
- 3,6-Dihydroxyfuranoteremophil-1(10)-en-9-one, D-10170
- 6 α ,14-Dihydroxy-1(10)*E*,4*E*-germacradien-12,8 α -olide, *in* D-10172
- 1,8-Dihydroxy-4,7(11),9-germacatriene-12,8:15,6-diolide, D-10171
- 6,14-Dihydroxy-1(10),4,11(13)-germacatrien-12,8-olide, D-10172
- 4,10-Dihydroxy-1,11(13)-guaiadien-12,8-olide, D-10173
- 2,3-Dihydroxy-4(15),10(14),11(13)-guaiatrien-12,6-olide, D-10174
- 3,8-Dihydroxy-4(15),10(14),11(13)-guaiatrien-12,6-olide, D-10175
- 3,12-Dihydroxyhexadecanoic acid, D-10176
- 3,16-Dihydroxy-22,23,24,25,26,27-hexanorcurcubit-5-ene-11,20-dione, D-10177
- 2,4-Dihydroxyhydrocinnamic acid, *see* D-10242
- 3,7-Dihydroxy-3-(4-hydroxybenzyl)-4-chromanone, D-10178
- 5,7-Dihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-4*H*-1-benzopyran-4-one, *see* T-10140
- ▶ 1,3-Dihydroxy-2-(hydroxymethyl)-9,10-anthracenedione, *see* D-10180
- 1,8-Dihydroxy-3-(hydroxymethyl)-9(10*H*)-anthracenone, D-10179
- ▶ 1,3-Dihydroxy-2-hydroxymethylanthraquinone, D-10180
- 1,8-Dihydroxy-3-(hydroxymethyl)anthrone, *see* D-10179
- 5,7-Dihydroxy-8-(3-hydroxy-3-methylbutyl)-2-methyl-4*H*-1-benzopyran-4-one, D-10181
- 7,8-Dihydroxy-6-(1-hydroxy-1-methylethyl)-4-methyl-1-naphthalenecarboxaldehyde, *see* E-10013
- 3,5-Dihydroxy-2-hydroxymethyl-1-methoxyanthraquinone, *in* T-10152
- 5,7-Dihydroxy-2-(4-hydroxyphenoxy)-4*H*-1-benzopyran-4-one, *in* T-10132
- 5,7-Dihydroxy-2-(4-hydroxyphenoxy)chromone, *in* T-10132
- 3,5-Dihydroxy-2-(4-hydroxyphenyl)-8,8-dimethyl-4*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-4-one, *see* C-10099
- 5,6-Dihydroxy-1(3*H*)-isobenzofuranone, D-10182
- 4',5-Dihydroxyisoflavone, D-10183
- 6,9-Dihydroxy-8(14),15-isopimaradien-1-one, *in* I-10044
- 15,16-Dihydroxy-8(14)-isopimaren-7-one, D-10184
- 2,8-Dihydroxy-4-isopropyl-7-methoxy-6-methyl-1-naphthalenecarboxaldehyde, *in* T-10133
- ent*-16 β ,17-Dihydroxy-19-kauranal, *in* K-10005
- 16,19-Dihydroxy-20-kauranoic acid, D-10185
- ent*-16 α ,17-Dihydroxy-19-kauranoic acid, *in* K-10005
- ent*-16 β ,17-Dihydroxy-19-kauranoic acid, *in* K-10005
- 16,17-Dihydroxy-7-kauranone, *in* K-10004
- 6,11-Dihydroxy-16-kaurene-3,15-dione, D-10186
- 11,15-Dihydroxy-16-kauren-3-one, D-10187
- 18,19-Dihydroxy-16-kauren-2-one, *in* K-10008
- 14 β ,15 β -Dihydroxyklaineanone, *in* K-10013

- 3,15-Dihydroxy-8(17),13-labdadien-19-al, *in* L-10007
- 6,15-Dihydroxy-8(17),13-labdadien-19-oic acid, D-10188
- 6,15-Dihydroxy-8(17)-labden-19-oic acid, D-10189
- 9,10-Dihydroxy-5-longipinanone, D-10190
- 7,13-Dihydroxy-2-longipinen-1-one, *see* D-10191
- 10,12-Dihydroxy-3-longipinen-5-one, D-10191
- 12,14-Dihydroxy-3(15)-longipinen-4-one, D-10192
- 3,23-Dihydroxy-20(29)-lupen-28-oic acid, D-10193
- 3,27-Dihydroxy-20(29)-lupen-28-oic acid, D-10194
- 11,14-Dihydroxymarsupellone, *see* D-10192
- 2',6'-Dihydroxy-4'-methoxyacetophenone, *in* T-10129
- 1,6-Dihydroxy-2-methoxyanthraquinone, *in* T-10131
- 2,4-Dihydroxy-4'-methoxybenzil, *in* D-10239
- 5,10-Dihydroxy-8-methoxy-2,7-dimethyl-4*H*-naphtho[1,2-*b*]pyran-4-one, *see* C-10030
- 1,5-Dihydroxy-3-methoxy-2,4-diprenylxanthone, *in* T-10144
- 4',5-Dihydroxy-7-methoxyflavone, D-10195
- 2',7-Dihydroxy-4'-methoxyflavone(3→5')-2',7-dihydroxy-4'-methoxyisoflavan, D-10196
- 1,6-Dihydroxy-13-methoxy-4,10(14)-germacradien-12,8-olide, *in* T-10149
- 1,8-Dihydroxy-3-methoxy-10-methylacridone, *in* T-10130
- 1,3-Dihydroxy-8-methoxy-2-methylanthraquinone, *in* T-10161
- 1,5-Dihydroxy-2-methoxy-6-methylanthraquinone, *in* T-10160
- 1,6-Dihydroxy-5-methoxy-2-methylanthraquinone, *in* T-10160
- 2,6*a*-Dihydroxy-3-methoxy-8,9-methylenedioxypterocarpan, *in* P-10062
- 3,6*a*-Dihydroxy-2-methoxy-8,9-methylenedioxypterocarpan, *in* P-10062
- 5,10-Dihydroxy-7-methoxy-3-methyl-1*H*-naphtho[2,3-*c*]pyran-6,9-dione, *see* A-10088
- 1,8-Dihydroxy-3-methoxy-6-methyl-2-prenylanthrone, *in* T-10165
- 2',4'-Dihydroxy-6'-methoxy-2-methylpropiophenone, *in* M-10077
- 2',6'-Dihydroxy-4'-methoxy-2-methylpropiophenone, *in* M-10077
- 1,8-Dihydroxy-3-methoxy-6-(3-oxo-1-butenyl)anthraquinone, D-10197
- 5,7-Dihydroxy-2-(4-methoxyphenoxy)-4*H*-1-benzopyran-4-one, *in* T-10132
- 1-(2,4-Dihydroxy-6-methoxyphenyl)-2-methyl-1-propanone, *in* M-10077
- 1,8-Dihydroxy-10-methylacridone, *in* D-10107
- 6,8-Dihydroxy-4-methyl-7*H*-benz[*de*]anthracen-7-one, D-10198
- 3,5-Dihydroxy-4-(3-methyl-2-butenyl)bibenzyl, *see* M-10048
- 2,4-Dihydroxy-3-(3-methyl-2-butenyl)-6-pentylbenzoic acid, *see* D-10225
- 3,7-Dihydroxy-8-(3-methyl-2-butenyl)-2-phenyl-4*H*-1-benzopyran-4-one, *see* D-10247
- 2,4-Dihydroxy-3-(3-methyl-2-butenyl)-6-(2-phenylethenyl)benzoic acid, *see* D-10249
- 4,6-Dihydroxy-3-(3-methyl-2-butenyl)-2-(2-phenylethenyl)benzoic acid, *see* D-10250
- 2,4-Dihydroxy-3-(3-methyl-2-butenyl)-6-(2-phenylethyl)benzoic acid, *see* D-10236
- 4-(2,3-Dihydroxy-3-methylbutyl)-3,5-dihydroxy-6,6-bis(3-methyl-2-butenyl)-2-(2-methyl-1-oxopropyl)-2,4-cyclohexadien-1-one, *see* C-10116
- 2,3-Dihydroxy-6-methyl-9*H*-carbazole, D-10199
- 16,22-Dihydroxy-24-methyl-12,24-dioxo-25-scalaranal, D-10200
- 5,7-Dihydroxy-3',4'-methylenedioxyflavone, *in* T-10052
- 16,25-Dihydroxy-24-methylene-3,4-secolanosta-4(28),7,9(11)-trien-3,21-dioic acid, *see* P-10136
- 5,7-Dihydroxy-8-methylflavone, D-10201
- 2,4-Dihydroxy-6-methylisophthalaldehydic acid, *see* F-10015
- 5,7-Dihydroxy-8-methyl-2-phenyl-4*H*-1-benzopyran-4-one, *see* D-10201
- 7,11-Dihydroxy-1(10)-nardsosinen-9-one, D-10202
- 3,21-Dihydroxy-30-nor-27-friedelanoic acid, D-10203
- 19,21-Dihydroxy-30-nor-3-oxo-20(29)-friedelen-27-oic acid, D-10204
- 7,14-Dihydroxy-4,8,10,12-octadecatetraenedioic acid, D-10205
- 3,13-Dihydroxy-12-oleananone, D-10206
- 3,22-Dihydroxy-12-oleanen-25-al, D-10207
- 3,22-Dihydroxy-18-oleanen-25-al, D-10208
- 3,19-Dihydroxy-12-oleanene-18,23-dioic acid, D-10209
- 3,19-Dihydroxy-12-oleanen-28-oic acid, D-10210
- 3,21-Dihydroxy-12-oleanen-28-oic acid, D-10211
- 3,22-Dihydroxy-12-oleanen-30-oic acid, *in* O-10032
- 3,23-Dihydroxy-12-oleanen-28-oic acid, D-10212
- 3,24-Dihydroxy-12-oleanen-30-oic acid, D-10213
- 3,30-Dihydroxy-12-oleanen-11-one, D-10214
- 9,10-Dihydroxy-4-oplopanone, D-10215
- 6,13-Dihydroxy-7-oxo-5,8(14)-abietadien-19-al, D-10216
- 6,8-Dihydroxy-3-oxo-11,13-clerodadien-15,16-olide, D-10217
- 6,10-Dihydroxy-3-oxo-7(11),8-eremophiladien-12,8-olide, D-10218
- 6,8-Dihydroxy-3-oxo-1,7(11),9-eremophilatrien-12,8-olide, D-10219
- 3,6-Dihydroxy-9-oxoeryopsin, *see* D-10170
- 4,6-Dihydroxy-9-oxofuranoeremophilane, *see* D-10169
- 5,6-Dihydroxy-3-(5-oxo-2(5*H*)-furanilydene)-2(3*H*)-benzofuranone, *see* G-10108
- 8,10-Dihydroxy-1-oxo-2,11(13)-germacradien-12,6-olide, D-10220
- 20,29-Dihydroxy-3-oxo-30,21-lupanolide, D-10221
- 7-[3,5-Dihydroxy-2-(3-oxo-1-octenyl)cyclopentyl]-5-heptenoic acid, *see* D-10222
- 3,21-Dihydroxy-11-oxo-12-oleanen-29,18-olide, *in* T-10180
- 3,4-Dihydroxy-20-oxopregna-5,16-dien-19,2-olide, *in* T-10181
- 9,11-Dihydroxy-15-oxo-5,13-prostadienoic acid, D-10222
- 11,15-Dihydroxy-9-oxo-5,13-prostadienoic acid, D-10223
- 7,21-Dihydroxy-3-oxo-24,25,26,27-tetranorapotirucalla-14,20(22)-dien-23,21-olide, D-10224
- 7,21-Dihydroxy-3-oxo-24,25,26,27-tetranorapotirucalla-1,14,20(22)-trien-23,21-olide, *in* D-10224
- 5,7-Dihydroxy-11-oxotetranorpropane-1,16-dioic acid, *see* P-10154
- 9,15-Dihydroxy-11-oxothromboxa-5,13-dien-1-oic acid, *in* T-10086
- 9,11-Dihydroxy-15-oxothrombox-5-en-1-oic acid, *in* T-10086
- 19,25-Dihydroxy-2-oxo-12-ursen-28-oic acid, *see* T-10193
- 3*β*,19*α*-Dihydroxy-2-oxo-12-ursen-28-oic acid, *in* T-10194
- 3,12-Dihydroxypalmitic acid, *see* D-10176
- 3',5'-Dihydroxy-3,4',5',6',7-pentamethoxyflavone, *in* H-10026
- 3',6'-Dihydroxy-3,4',5,5',7-pentamethoxyflavone, *in* H-10026
- 4',5-Dihydroxy-3,3',5',6',7-pentamethoxyflavone, *in* H-10026
- 2,4-Dihydroxy-6-pentyl-3-prenylbenzoic acid, D-10225
- 3,4-Dihydroxyphenethyl alcohol, *see* D-10235
- ▶ 3,4-Dihydroxyphenethylamine, *see* D-10305
- α,3-Dihydroxyphenylacetic acid, *see* H-10166
- 2-(2,5-Dihydroxyphenyl)-4*H*-1-benzopyran-4-one, *see* D-10163
- 7,8-Dihydroxy-2-phenyl-4*H*-1-benzopyran-4-one, *see* D-10165
- 4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-6-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,7-dihydroxy-2*H*-1-benzopyran-4-yl]-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-3,5,9-triol, D-10226
- 4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,7,8-tetrahydro-2*H*,6*H*-benzo[1,2-*b*:5,4-*b'*]dipyran-3,7-diol, D-10227
- 10-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-3,9-diol, D-10228
- 4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-3,5,9-triol, D-10229
- 8-(2,4-Dihydroxyphenyl)-2,10-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-3,5,9-triol, D-10230
- 10-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-3,5,9-triol, D-10231
- 2-(3,4-Dihydroxyphenyl)-6,8-di-*β*-D-glucopyranosyl-7-hydroxy-4*H*-1-benzopyran-4-one, *see* D-10091
- 2-(3,4-Dihydroxyphenyl)-6*a*,12*b*-dihydro-7-hydroxy-8-(3-methyl-2-butenyl)-4*H*-1-benzopyran-4-one, *see* T-10189
- 6-(3,4-Dihydroxyphenyl)-3,4,9,10-tetrahydro-3,10,11,12-tetrahydroxy[2]benzopyrano[3,4-*c*]1]benzopyran-8(6*H*)-one, D-10232
- ▶ 2-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-4*H*-1-benzopyran-4-one, *see* T-10052
- 1-(2,4-Dihydroxyphenyl)-2-(3,5-dihydroxyphenyl)ethane, *see* T-10038
- 1-(2,4-Dihydroxyphenyl)-3-(3,4-dihydroxyphenyl)-2-hydroxy-1-propanone, D-10233
- 2-(2,4-Dihydroxyphenyl)-8,8-dimethyl-10-(3-methyl-2-butenyl)-8*H*-pyrano[2,3-*d*]chroman-4-one, D-10234
- 2-(3,4-Dihydroxyphenyl)ethanol, D-10235
- ▶ 2-(3,4-Dihydroxyphenyl)ethylamine, *see* D-10305
- 4-[2-(3,5-Dihydroxyphenyl)ethyl]-1,3-benzenediol, *see* T-10038
- 6-(1,2-Dihydroxy-2-phenylethyl)-5,6-dihydro-2*H*-pyran-2-one, *see* G-10109
- 2-(3,4-Dihydroxyphenyl)ethyl 3-*O*-*D*-apio-*β*-D-furanosyl-*β*-D-glucopyranoside 6-[3-(3,4-dihydroxyphenyl)-2-propenoate], *see* I-10039
- 2,4-Dihydroxy-6-(2-phenylethyl)-3-prenylbenzoic acid, D-10236
- 2-(3,4-Dihydroxyphenyl)-6-*β*-D-glucopyranosyl-5,7-dihydroxy-8-*β*-D-xylopyranosyl-4*H*-1-benzopyran-4-one, *see* L-10067
- 3-(3,4-Dihydroxyphenyl)-8-hydroxy-2*H*-1-benzopyran-2-one, D-10237
- 3-(3,4-Dihydroxyphenyl)-8-hydroxycoumarin, *see* D-10237
- 2-(3,4-Dihydroxyphenyl)-5-hydroxy-4*H*-furo[2,3-*h*]-1-benzopyran-4-one, D-10238
- 1-(2,4-Dihydroxyphenyl)-2-(4-hydroxyphenyl)ethanedione, D-10239
- 1-(2,4-Dihydroxyphenyl)-3-(4-hydroxyphenyl)-2-propen-1-one, D-10240

- 6-[1-(3,4-Dihydroxyphenyl)-2-hydroxy-3-(3,4,5-trihydroxyphenyl)propyl]-3',4',7,8-tetrahydroxyflavan, D-10241
- 3-[(3,4-Dihydroxyphenyl)methyl]-3,4-dihydro-2*H*-1-benzopyran-3,4,7-triol, *see* D-10112
- 3-[(3,4-Dihydroxyphenyl)methyl]-2,3-dihydro-3,7-dihydroxy-4*H*-1-benzopyran-4-one, *see* D-10113
- 3-(2,4-Dihydroxyphenyl)-1-phenyl-2-propen-1-one, *see* D-10125
- 3-(2,4-Dihydroxyphenyl)propanoic acid, D-10242
- 3-(3,4-Dihydroxyphenyl)-2-propen-1-ol, D-10243
- 3-(3,4-Dihydroxyphenyl)-1-(2,3,4-trihydroxyphenyl)-2-propen-1-one, *see* P-10040
- 5,6-Dihydroxyphthalide, *see* D-10182
- 3,4-Dihydroxypregna-5,17-dien-19,2-olide, *in* T-10184
- 3,4-Dihydroxypregna-5,20-dien-19,2-olide, *in* T-10185
- 3,5-Dihydroxypregn-20-en-6-one, D-10244
- 3,6-Dihydroxypregn-9(11)-en-20-one, D-10245
- 2-[[17,20-Dihydroxypregn-5-en-3-yl)oxy]-4-methoxy-6-methyl-2*H*-pyran-3(6*H*)-one, *see* P-10082
- 4',5-Dihydroxy-6-prenylflavanone, D-10246
- 3,7-Dihydroxy-8-prenylflavanone, D-10247
- 4',7-Dihydroxy-8-prenylisoflavone, D-10248
- 2,4-Dihydroxy-3-prenyl-6-styrylbenzoic acid, D-10249
- 4,6-Dihydroxy-3-prenyl-2-styrylbenzoic acid, D-10250
- 2,4-Dihydroxy-12,8-pseudoguainolide, D-10251
- 1,6-Dihydroxy-1,10-seco-5(10),11(13)-eudesmien-12,8-olide, D-10252
- ▶ 6,12-Dihydroxysenecianon-11,16-dione, *see* A-10078
- 3,23-Dihydroxyspirostan-26-one, D-10253
- 3,5-Dihydroxy-4-[(6-*O*-sulfo- β -D-allopyranosyl)oxy]benzoic acid, *in* P-10081
- 3,5-Dihydroxy-4-[(6-*O*-sulfo- β -D-glucopyranosyl)oxy]benzoic acid, *in* P-10081
- 15 α ,22 β -Dihydroxytingenone, *in* T-10091
- α ,3-Dihydroxy- α -toluic acid, *see* H-10166
- 6,23-Dihydroxytormentic acid, *in* P-10064
- 4,4'-Dihydroxy-3,3',5-trimethoxy-7,9':7',9'-diepoxylignan, *see* M-10024
- 5',7-Dihydroxy-2',3',4'-trimethoxyisoflavan, *in* P-10057
- 1,3-Dihydroxy-2,5,6-trimethoxy-10-methylacridone, *in* P-10038
- 1,6-Dihydroxy-2,3,5-trimethoxy-10-methylacridone, *in* P-10038
- 5,7-Dihydroxy-2,6,8-trimethyl-4*H*-1-benzopyran-4-one, D-10254
- 5,7-Dihydroxy-2,6,8-trimethylchromone, *see* D-10254
- 4,7-Dihydroxy-*N,N,N*-trimethyl-10-oxo-3,5,9-trioxa-4-phosphapentacosan-1-aminium hydroxide, inner salt, 4-oxide, *see* L-10088
- 3,20-Dihydroxy-7,11,15-trioxolanosta-8,24-dien-26-oic acid, D-10255
- 5,7-Dihydroxy-2-tritriacontyl-4*H*-1-benzopyran-4-one, D-10256
- 5,7-Dihydroxy-2-tritriacontylchromone, *see* D-10256
- 2,3-Dihydroxy-12,19(29)-ursadien-28-oic acid, D-10257
- 3,13-Dihydroxy-11-ursen-28-oic acid, D-10258
- 3,21-Dihydroxy-12-ursen-28-oic acid, D-10259
- 3,22-Dihydroxy-12-ursen-28-oic acid, D-10260
- 3,23-Dihydroxy-12-ursen-28-oic acid, D-10261
- 3,27-Dihydroxy-12-ursen-30-oic acid, D-10262
- 5,19-Dihydroxy-3,14-viscidadien-20-oic acid, D-10263
- 1,2,3,4-Di-*O*-isopropylidene-L-rhamnitol, *in* R-10020
- 1,2,3,4-Di-*O*-isopropylidene-5-*O*-tosyl-L-rhamnitol, *in* R-10020
- Dilopholide, D-10264
- Dimerostemrabrasiolide, *in* D-10159
- 2,3-Dimethoxybenzaldehyde, *in* D-10108
- 2,4-Dimethoxybenzaldehyde, *in* D-10109
- 2,4-Dimethoxybenzoic acid, D-10265
- 3,7-Dimethoxy-4*H*-1-benzopyran-4-one, *in* D-10111
- 1-(3,4-Dimethoxybenzyl)-1,2,3,4-tetrahydro-6,7-methylenedioxy-2-methylisoquinoline, *see* R-10041
- 2,3-Dimethoxy-2,4-cyclopentadien-1-one, *in* D-10130
- 1-(5,8-Dimethoxy-2,2-dimethyl-2*H*-1-benzopyran-6-yl)-3-hydroxy-3-phenyl-2-propen-1-one, *see* P-10131
- 1,2-Dimethoxy-*N,N*-dimethylphenanthro[2,3-*d*][1,3]dioxole-4-ethanamine, *see* T-10082
- Dimethoxyburnamonine, *in* E-10002
- 2',5'-Dimethoxyflavone, *in* D-10163
- 2',7'-Dimethoxyflavone, *in* D-10164
- 7,8-Dimethoxyflavone, *in* D-10165
- 4,8-Dimethoxyfuro[2,3-*b*]quinolin-7-ol, *see* H-10002
- 8,9-Dimethoxygeibalsanine, D-10266
- 4',5-Dimethoxyisoflavone, *in* D-10183
- 10,11-Dimethoxyisomitraphylline, *in* M-10082
- 4,8-Dimethoxy-7-[(3-methyl-2-butenyl)oxy]furo[2,3-*b*]quinoline, *in* H-10002
- 1,2-Dimethoxy-6-methyl-4*H*-dibenzo[*de,g*]quinoline-4,5(6*H*)-dione, *see* C-10063
- 9,10-Dimethoxy-1,2-methylenedioxyaporphine, *see* D-10058
- 5,7-Dimethoxy-3',4'-methylenedioxyflavone, *in* T-10052
- 5,6-Dimethoxy-3',4'-methylenedioxyfuran[7,8:2',3']flavone, *see* B-10014
- 9,10-Dimethoxy-1,2-methylenedioxyaporphine, *in* D-10058
- 5,7-Dimethoxy-8-methylflavone, *in* D-10201
- 6,7-Dimethoxy-1-methylisoquinoline, D-10267
- 5-(4,5-Dimethoxy-2-methyl-1-naphthalenyl)-1,2,3,4-tetrahydro-6,8-dimethoxy-1,3-dimethylisoquinoline, *in* A-10083
- 5-(4,5-Dimethoxy-2-methyl-1-naphthalenyl)-1,2,3,4-tetrahydro-6,8-dimethoxy-1,2,3-trimethylisoquinoline, *see* A-10084
- 5-(4,5-Dimethoxy-2-methyl-1-naphthalenyl)-1,2,3,4-tetrahydro-8-methoxy-1,3-dimethyl-6-isoquinolinol, *see* A-10083
- 3,5-Dimethoxy-2-methylphenol, *in* M-10043
- 6,7-Dimethoxy-5-(3-oxo-1-butenyl)-2*H*-1-benzopyran-2-one, D-10268
- 1-(2,4-Dimethoxyphenyl)-3-(4-hydroxyphenyl)-2-propen-1-one, *in* D-10240
- 5-[(3,4-Dimethoxyphenyl)methyl]-5,6,7,8-tetrahydro-6-methyl-1,3-dioxolo[4,5-*g*]isoquinoline, *see* R-10041
- 5,6-Dimethoxyphthalide, *in* D-10182
- 5,6-Dimethoxypongapan, *in* B-10014
- 2,6-Dimethoxy-4[tetrahydro-4-(4-hydroxy-3-methoxyphenyl)-1*H*,3*H*-furo[3,4-*c*]furan-1-yl]phenol, *see* M-10024
- 2,3-Dimethoxy-1,5,6-trihydroxy-10-methylacridone, *in* P-10038
- N,O*-Dimethylactinodaphnine, *see* D-10058
- 2-(*N,N*-Dimethylamino)acetophenone, *in* A-10055
- 6-[[6-[2-(Dimethylamino)ethyl]-1,3-benzodioxol-5-yl]carbonyl]furo[3,4-*e*]-1,3-benzodioxol-8(6*H*)-one, *see* N-10006
- 1-(2-Dimethylaminoethyl)-3,4-dimethoxy-6,7-methylenedioxyphenanthrene, *see* T-10082
- 1-(2-Dimethylaminoethyl)-3,4,6,7-tetramethoxyphenanthrene, *see* M-10069
- γ ,4-Dimethylbenzenanthranic acid, *see* T-10199
- 8,8-Dimethyl-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran, *in* S-10050
- 8,8-Dimethyl-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-2-one, *see* S-10050
- 3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol, D-10269
- 14,24-Dimethylcholestan-3-one, *see* M-10055
- 4,24-Dimethylcholest-7-en-3-ol, *see* M-10056
- ▶ 6,6'-Di-*O*-methylauricolone, *see* D-10022
- 1,10-Dimethyl-9-decalol, *see* G-10025
- 4,6-Dimethyl-4-decen-3-one, D-10270
- Dimethyl 4,4'-dimethoxy-5,6:5',6'-bis(methylenedioxy)biphenyl-2,2'-dicarboxylate, *in* H-10051
- 4,14-Dimethylergosta-8,24(28)-dien-3-ol, D-10271
- 4,14-Dimethylergosta-9(11),24(28)-dien-3-ol, D-10272
- 4,23-Dimethylergost-22-ene-1,3,6,11-tetrol, *see* T-10197
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- 2,4-Dimethyl-2,4-hexadien-1-ol, D-10275
- 2,4-Dimethyl-2,4-hexadien-1-ol, D-10275
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- 1,5-Dimethyl-1*H*-imidazole, *in* M-10064
- 2,4-Dimethyl-1*H*-imidazole, D-10276
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- 2,10-Dimethyl-6-methylene-2,7,9,11-dodecatetraen-1-ol, D-10277
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- Epicatechin(2β→7,4β→8)epicatechin(4α→8)epicatechin, *in* P-10054
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 6-Hydroxyboschnalolide, H-10091
 3-Hydroxycadalene, *see* C-10002
 7-Hydroxycadalene, *see* C-10002
 9-Hydroxycanthin-6-one, H-10092
 9-Hydroxycanthin-6-one N³-oxide, *in* H-10092
 16-Hydroxycarnosic acid, *see* T-10126
 16-Hydroxycarnosol, *in* T-10127
 14-Hydroxycaryophyllene-4,5-oxide, *in* C-10027
 6-Hydroxy- Δ^7 (14)-caulerpenyne, H-10093
 4-Hydroxy-7,11,15(17)-cembratrien-16,3-olide, H-10094
 4-Hydroxychalcone, *see* H-10218
 6 α -Hydroxychamaecydin, *in* C-10064
 6 β -Hydroxychamaecydin, *in* C-10064
 6-Hydroxychaparrin, H-10095
 6-Hydroxychaparrinone, *in* H-10095
 13²-Hydroxychlorophyll a, *in* C-10084
 3-Hydroxycholesta-5,22-diene-7,24-dione, H-10096
 3-Hydroxycholesta-5,22-dien-7-one, H-10097
 3-Hydroxycholestan-6-one, H-10098
 3-Hydroxycholest-5-ene-7,24-dione, H-10099
 6'-*O*-(4-Hydroxycinnamoyl)desglucouzarin, *in* U-10020
 2-*O-p*-Hydroxycinnamoyl-1-*O*-glucosyl-*sn*-glycerol, *see* R-10014
 ent-18-Hydroxy-3-cleroden-15-oic acid, *in* C-10106
 18-Hydroxy-3-cleroden-15,16-olide, H-10100
 6-Hydroxy-13-cleroden-15,16-olid-18-oic acid, H-10101
 7 α -Hydroxyconfertifolin, *in* H-10127
 6'-Hydroxyconvallatoxin, *in* T-10177
 3 β -Hydroxycoriaceolide, *in* D-10211
 9-Hydroxycostic acid, *see* H-10139
 2 α -Hydroxycostunolide, *in* H-10153
 10' α -Hydroxycryptoquinone, *in* C-10064
 10' β -Hydroxycryptoquinone, *in* C-10064
 17-Hydroxycryptotanshinone, *in* E-10132
 3-Hydroxycycloartan-21-oic acid, H-10102
 3-Hydroxycycloartan-26-oic acid, H-10103
 3-Hydroxycycloartan-26,23-olide, H-10104
 3-Hydroxycycloart-24-en-21-ol, *in* C-10161
 3-Hydroxycycloart-24-en-21-oic acid, *in* C-10161
 3-Hydroxycycloart-24-en-26,23-olide, *in* H-10104
 23-Hydroxycycloart-24-en-3-one, *in* H-10105
 25-Hydroxycycloart-23-en-3-one, *in* C-10160
 7-Hydroxy-6,11-cyclofarnes-3(15)-en-2-one, H-10106
 3-Hydroxy-9,19-cyclolanost-24-en-23-one, *see* H-10105
 ▶ 3-Hydroxy-*p*-cymene, *see* I-10048
 5-Hydroxy-6-cystein-*S*-yl-7,9,11,14-octadecatetraenedioic acid, *see* A-10058
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 8-Hydroxy-4-daucene-3,9-dione, H-10108
 10-Hydroxydeacetylakuumiline, *in* A-10036
 10-Hydroxy-8-decenoic acid, H-10109
 13-Hydroxy-7,11-dehydromatrine, *in* L-10040
 8 α -Hydroxydehydrozalanin C, *in* D-10175
 12 α -Hydroxy-13,18-dehydroparain, *in* N-10025
 2 α -Hydroxy-9-*O*-demethylhomolycorine, *in* H-10069
 5 α -Hydroxy-10-*O*-demethylhomolycorine, *in* H-10069
 1-Hydroxy-13-deoxocarminomycin I, *in* F-10007
 16-Hydroxy-20-deoxocarnosol, *in* E-10031
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 4 α -Hydroxydihydroagarofuran, *in* A-10031
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 8 α -Hydroxy-11 β ,13-dihydrobalchanin, *in* D-10159
 6-Hydroxydihydrokaempferol, *see* P-10051
 2'-Hydroxy-4',6'-dimethoxyacetophenone, *in* T-10129
O-(4-Hydroxy-3,5-dimethoxybenzoyl)vincamajine, *in* V-10023
 1-Hydroxy-2,3-dimethoxydibenz[*cd*,*f*]indol-4(5*H*)one, *in* P-10121
 3-Hydroxy-5,7-dimethoxyflavan, *in* T-10147
 7-Hydroxy-4,8-dimethoxyfuro[2,3-*b*]quinoline, *see* H-10002
 1-Hydroxy-3,8-dimethoxy-2-methylanthraquinone, *in* T-10161
 1-Hydroxy-5,6-dimethoxy-2-methylanthraquinone, *in* T-10160
 7-Hydroxy-3,4-dimethoxy-5-methylbenzo[*h*]quinolin-2(1*H*)-one, *see* A-10131
 7-Hydroxy-2,9-dimethoxy-4-methyl-6*H*-dibenzo[*b*,*a*]pyran-6-one, *see* S-10001
 6 α -Hydroxy-2,3-dimethoxy-8,9-methylenedioxypterocarpan, *in* P-10062
 2-(4-Hydroxy-3,5-dimethoxyphenyl)-6-(4-hydroxy-3-methoxyphenyl)-3,7-dioxabicyclo[3.3.1]octane, *see* M-10024
 3-(4-Hydroxy-3,5-dimethoxyphenyl)-1-propanol, *in* S-10065
 3-(4-Hydroxy-3,5-dimethoxyphenyl)-2-propen-1-ol, *see* S-10065
 2-Hydroxy-3,4-dimethyl-2-butene-1,4-olide, *see* H-10111
 12-Hydroxy-6,14-dimethyl-1,7-dioxacyclotetradeca-3,9-diene-2,8,11-trione, *in* C-10115
 3-Hydroxy-4,5-dimethyl-2(5*H*)-furanone, H-10111
 6-Hydroxy-4,6-dimethyl-3-hepten-2-one, H-10112
 5-Hydroxy-8,8-dimethyl-2-phenyl-2*H*,6*H*-benzo[1,2-*b*:5,4-*b'*]dipyran-6-one, H-10113
 5-Hydroxy-6,6-dimethylpyrano[2,3:7,6]flavone, *see* H-10113
 4-Hydroxy-2,3-dimethylquinoline, H-10114
 3-Hydroxy-26,27-dinorcholesta-5,22-diene-7,24-dione, H-10115
 3-Hydroxy-26,27-dinorergosta-5,22-dien-7-one, *see* H-10193
 ▶ 3-Hydroxy-24,29-dinor-1(10),3,5,7-friedelatetraene-2,21-dione, *see* T-10091
 11-Hydroxy-14,15-dinor-7,11-labdadien-13-one, H-10116
 6-Hydroxy-14,15-dinor-13-oxo-8(17)-labden-18-oic acid, H-10117
 22-Hydroxy-3,21-dioxo-29-nor-24-friedelanolic acid, H-10118
 11-Hydroxy-3,21-dioxo-12-oleanen-28-oic acid, H-10119
 5-Hydroxy-9-dotriacontanone, H-10120
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 25-Hydroxy-3-dotriacontanone, H-10122
 25-Hydroxy-6-dotriacontanone, H-10123
 30-Hydroxy-5-dotriacontanone, H-10124
 8-Hydroxy-12,11-drimanolide, H-10125
 11-Hydroxy-8(12)-drimen-13-oic acid, H-10126
 7-Hydroxy-8-drimen-12,11-olide, H-10127
 7-Hydroxyechinozolinone, *in* E-10003
 15-Hydroxy-5,8,11,13,17-eicosapentaenoic acid, H-10128
 8-Hydroxy-5,9,11,14-eicosatetraenoic acid, H-10129
 19'*S*-Hydroxy-3-epiervafolidine, *in* E-10190
 ent-3 α -Hydroxy-13-epimanol, *in* L-10003
 3 β -Hydroxy-13-epimanol, *in* L-10003
 16-Hydroxyepiromanol, *in* T-10034
 8-Hydroxy-11,12-epoxy-5,9,14-eicosatrienoic acid, H-10130
 6-Hydroxy-1(10),7(11),8-eremophilatrien-12,8-olide, H-10131
 3-Hydroxy-6,9,11-eremophilatrien-8-one, H-10132
 8-Hydroxy-11-eremophilen-2-one, H-10133
 3-Hydroxyergosta-5,22-dien-7-one, H-10134
 19'*R*-Hydroxyervafolidine, *in* E-10190
N-(1-Hydroxyethyl)benzanilide, H-10135
 4-(2-Hydroxyethyl)-1,2-benzenediol, *see* D-10235
N-(1-Hydroxyethyl)-*N*-phenylbenzamide, *see* H-10135
 1-Hydroxy-5,7(11)-eudesmadien-12-al, H-10136
 12-Hydroxy-4,6-eudesmadiene-3,8-dione, H-10137
 9-Hydroxy-4,11-eudesmadien-15-oic acid, H-10138
 9-Hydroxy-4(15),11(13)-eudesmadien-12-oic acid, H-10139
 1-Hydroxy-4(15),11(13)-eudesmadien-12,6-olide, H-10140
 2-Hydroxy-4(15),11(13)-eudesmadien-12,8-olide, H-10141
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 1-Hydroxy-4(15)-eudesmen-12,6-olide, H-10143
 2-Hydroxy-4(15)-eudesmen-12,8-olide, *in* H-10141
 3-Hydroxy-4-eudesmen-12,6-olide, H-10144
 6 α -Hydroxyeurycomalactone, *in* E-10232
 7 α -Hydroxyeurycomalactone, *in* E-10232
 1-Hydroxyferulinkiol, *in* D-10020
 3-Hydroxy-27,29-friedelanedioic acid, H-10145
 15-Hydroxy-1,3-friedelanedione, H-10146
 26-Hydroxy-3,21-friedelanedione, *in* D-10167
 15-Hydroxy-3-friedelanone, H-10147
 21-Hydroxy-3-friedelanone, *in* F-10021
 26-Hydroxy-3-friedelanone, *in* D-10167
 21 α -Hydroxy-4(23)-friedelen-3-one, *in* F-10021
 15 α -Hydroxyfriedelin, *in* H-10147
 6-Hydroxyfuranoteremophilan-9-one, H-10148
 6-Hydroxy-1(10)-furanoteremophilene, *see* F-10033
 2'-Hydroxyfuranol[2',3':7,8]flavone, *see* H-10217
 7-Hydroxyfuranol[2',3':5,6]flavone, *see* H-10216
 10-Hydroxygeissoschizol, H-10149
 5-Hydroxygeranylinalol, *in* P-10110
 20-Hydroxygeranylinalool, *in* P-10111
 1-Hydroxy-9,11-germacradien-15,6-olide, H-10150
 3-Hydroxy-1(10),4-germacradien-12,6-olide, H-10151
 2 α -Hydroxy-1(10)*E*,4*E*-germacradien-12,6 α -olide, *in* H-10153
 1-Hydroxy-4,7(11),9-germacatriene-12,8,15,6-olide, H-10152

- 1-Hydroxy-1(10),4,11(13)-germacatrien-12,6-olide, H-10153
 2-Hydroxy-1(10),11-guaiadien-15-oic acid, H-10154
 4-Hydroxy-2,10(14)-guaiadien-12,6-olide, in H-10155
 4-Hydroxy-2,10(14),11(13)-guaiatrien-12,6-olide, H-10155
 14-Hydroxyheneicosanoic acid, H-10156
 15-Hydroxyheneicosanoic acid, H-10157
 9-Hydroxy-3-hentriacontanone, H-10158
 12-Hydroxy-5,8,10-heptadecatrienoic acid, H-10159
 11-Hydroxyhexadecanoic acid, H-10160
 4'-Hydroxy-3,3',5,5',6,7-hexamethoxyflavone, in H-10026
 5-Hydroxy-3,3',4',5',6,7-hexamethoxyflavone, in H-10026
 5 α -Hydroxyhomolycorine, in H-10069
 3-Hydroxy-22(29)-hopen-24-oic acid, H-10161
 6 β -Hydroxyhuperzine A, in H-10074
 ▶ Hydroxyhydroquinone, see B-10013
 2-[7-Hydroxy-3-[4-hydroxy-5-(7-hydroxychroman-3-yl)-2-methoxyphenyl]chroman-3-yl]-4-methoxy-1,4-benzoquinone, see H-10175
 8-Hydroxy-3-(3-hydroxy-4-methoxyphenyl)coumarin, in D-10237
 1-Hydroxy-2-hydroxymethyl-9,10-anthracenedione, see H-10162
 1-Hydroxy-2-hydroxymethylanthraquinone, H-10162
 2-Hydroxy-4-hydroxymethyl-4-butanolide, see D-10096
 3-[4-Hydroxy-3-(4-hydroxy-3-methyl-2-butenyl)phenyl]-2-propenoic acid, H-10163
 11-Hydroxy-3-(1-hydroxy-3-methylbutyl)-4-methoxy-9-methyl-5*H*,7*H*-dibenzo[*b,g*][1,5]dioxocin-5-one, see P-10025
 3-Hydroxy-2-hydroxymethyl-1-methoxyanthraquinone, in D-10180
 7-Hydroxy-2-(hydroxymethyl)-5-methyl-4*H*-1-benzopyran-4-one, H-10164
 7-Hydroxy-2-(hydroxymethyl)-5-methylchromone, see H-10164
 7-Hydroxy-8-(15-hydroxypentadecyl)-2*H*-1-benzopyran-2-one, H-10165
 7-Hydroxy-8-(15-hydroxypentadecyl)coumarin, see H-10165
 2-Hydroxy-2-(3-hydroxyphenyl)acetic acid, H-10166
 5-Hydroxy-3-(4-hydroxyphenyl)-4*H*-1-benzopyran-4-one, see D-10183
 7-Hydroxy-2-(2-hydroxyphenyl)-4*H*-1-benzopyran-4-one, see D-10164
 5-Hydroxy-2-(4-hydroxyphenyl)-7-methoxy-4*H*-1-benzopyran-4-one, see D-10195
 7-Hydroxy-3-(4-hydroxyphenyl)-8-(3-methyl-2-butenyl)-4*H*-1-benzopyran-4-one, see D-10248
 2-Hydroxy-1-[[[3-(4-hydroxyphenyl)-1-oxo-2-propenyl]oxy]methyl]ethyl β -D-glucopyranoside, see R-10013
 3-Hydroxy-2-[[3-(4-hydroxyphenyl)-1-oxo-2-propenyl]oxy]propyl β -D-glucopyranoside, see R-10014
 ▶ 2-Hydroxy-3-(4-hydroxyphenyl)propanoic acid, H-10167
 3-(Hydroxyimino)propanoic acid, in O-10061
 9-Hydroxy-6*H*-indolo[3,2,1-*de*][1,5]naphthyridin-6-one, see H-10092
 19-Hydroxyingol, H-10168
 27-Hydroxyochromolide, in I-10016
 3-Hydroxy- β -ionone, in H-10173
 3 α -Hydroxyisoagatholal, in L-10007
 3 β -Hydroxyisoagatholal, in L-10007
 21-Hydroxyisoglabrolide, in T-10180
 15-Hydroxyisoneolaugerine, in N-10020
 9-Hydroxy-8(14),15-isopimaradien-1-one, in I-10042
 ▶ 3-Hydroxy-4-isopropyltoluene, see I-10048
 8 α -Hydroxyisotrichodiol, in I-10056
 5-Hydroxyisoxazole, see I-10058
 16-Hydroxy-19,20-kauranedial, H-10169
 ent-16 β -Hydroxy-20,19-kauranolide, in D-10185
 15-Hydroxy-16-kauran-19-oic acid, H-10170
 ent-3 β -Hydroxy-16-kauran-19-oic acid, in K-10006
 15-Hydroxyklalainone, in K-10013
 ent-13*R*-Hydroxy-8(17),14-labdadien-3-one, in L-10003
 13*R*-Hydroxy-8(17),14-labdadien-3-one, in L-10003
 3-Hydroxylanosta-8,24-dien-26-oic acid, H-10171
 6-Hydroxyliguanolide, in H-10131
 10-Hydroxyligustroside, in O-10033
 6-Hydroxylinoleic acid, in H-10197
 3-Hydroxy-20(29)-lupene-27,28-dioic acid, in D-10194
 3 α -Hydroxy-20(29)-lupene-23,28-dioic acid, in D-10193
 1 α -Hydroxymagnocurarine, H-10172
 20-Hydroxymaitenin, in T-10091
m-Hydroxymandelic acid, see H-10166
 18-Hydroxymanool, in L-10004
 ent-3 β -Hydroxymanool, in L-10003
 3 β -Hydroxymanool, in L-10003
 11 α -Hydroxymanoyl oxide, in E-10126
 1 β -Hydroxymanoyl oxide, in E-10125
 9 α -Hydroxymedirosinol, in M-10024
 3-Hydroxy-5,7-megastigmadien-9-one, H-10173
 6-Hydroxy-12-methoxy-5,8,11,13-abietatetraen-7-one, in M-10088
 ▶ 2-Hydroxy-3-methoxybenzaldehyde, in D-10108
 2-Hydroxy-4-methoxybenzaldehyde, in D-10109
 3-Hydroxy-2-methoxybenzaldehyde, in D-10108
 4-Hydroxy-2-methoxybenzaldehyde, in D-10109
 4-Hydroxy-3-methoxybenzeneethanol, in D-10235
 3-Hydroxy-5-methoxybenzoic acid, in D-10110
 3-Hydroxy-7-methoxy-4*H*-1-benzopyran-4-one, in D-10111
 8-Hydroxy-9-methoxycanthin-6-one, H-10174
 15-Hydroxy-3-(methoxycarbonyl)meloscine, in S-10030
 4 α -Hydroxy-8-methoxychlorotetracycline, in M-10039
 1-Hydroxy-2-methoxydibenz[*cd,f*]indol-4(5*H*)one, see P-10121
 5-Hydroxy-7-methoxy-2,6-dimethyl-4*H*-1-benzopyran-4-one, in D-10133
 5-Hydroxy-7-methoxy-2,8-dimethyl-4*H*-1-benzopyran-4-one, in D-10134
 2'-Hydroxy-7-methoxyflavone, in D-10164
 8-Hydroxy-7-methoxyflavone, in D-10165
 7-Hydroxy-4'-methoxyisoflavan-2',5'-quinone(4 \rightarrow 5')-2',7'-dihydroxy-4'-methoxyisoflavan, H-10175
 5-Hydroxy-4'-methoxyisoflavone, in D-10183
 3-Hydroxy-1-methoxy-2-(methoxymethyl)anthraquinone, in D-10180
 2-Hydroxy-4-methoxy-3-(3-methyl-2-butenyl)-6-(2-phenylethyl)benzoic acid, in D-10249
 6-Hydroxy-4-methoxy-3-(3-methyl-2-butenyl)-2-(2-phenylethyl)benzoic acid, in D-10250
 7-Hydroxy-6-methoxy-1-(3,4-methylenedioxybenzyl)isoquinoline, see S-10055
 4'-Hydroxy-3'-methoxy-3,4-methylenedioxy-7,9':7',9'-diepoxylignan, see P-10120
 2-Hydroxy-1-methoxynoraporphine, see A-10132
 2-Hydroxy-4-methoxy-6-pentyl-3-prenylbenzoic acid, in D-10225
 3-Hydroxy-4-methoxyphenethylamine, in D-10305
N- β -Hydroxy- β -p-methoxyphenethylcinnamide, see A-10027
 (4-Hydroxy-3-methoxyphenyl)ethanol, in D-10235
N-[2-Hydroxy-2-(4-methoxyphenyl)ethyl]-3-phenyl-2-propenamide, see A-10027
 2-Hydroxy-4-methoxy-6-(2-phenylethyl)-3-prenylbenzoic acid, in D-10236
 2-(4-Hydroxy-3-methoxyphenyl)-6-(3,4-methylenedioxyphenyl)-3,7-dioxabicyclo[3.3.0]octane, see P-10120
 2-Hydroxy-3-(4-methoxyphenyl)propanamide, in H-10167
 2-Hydroxy-3-(4-methoxyphenyl)propanoic acid, in H-10167
 3-(4-Hydroxy-3-methoxyphenyl)-2-propen-1-ol, in D-10243
 5-Hydroxy-6-methoxyphthalide, in D-10182
 6-Hydroxy-5-methoxyphthalide, in D-10182
 3-Hydroxy-5-methoxy-4-prenylbibenzyl, in M-10048
 2-Hydroxy-4-methoxy-3-prenyl-6-styrylbenzoic acid, in D-10249
 6-Hydroxy-4-methoxy-3-prenyl-2-styrylbenzoic acid, in D-10250
 16-Hydroxy-17-methoxyrosmanol, in P-10037
 5'-Hydroxy-3'-methoxysativan, in P-10057
 5-Hydroxy-7-methoxy-2-tritriacontyl-4*H*-1-benzopyran-4-one, in D-10256
 5-Hydroxy-7-methoxy-2-tritriacontylchromone, in D-10256
 5 β -Hydroxymethylakuummiline, in A-10036
 2-Hydroxy-6-methylbenzenemethanol, see H-10178
 β -Hydroxy-2-methylbenzenepropanoic acid, see H-10189
 4-Hydroxy-5-methyl-2*H*-1-benzopyran-2-one, H-10176
 ▶ 7-Hydroxy-4-methyl-2*H*-1-benzopyran-2-one, H-10177
 2-Hydroxy-6-methylbenzyl alcohol, H-10178
 3-[4-Hydroxy-3-(3-methyl-2-butenyl)phenyl]-2-propenoic acid, see D-10311
 5-Hydroxy-3-(3-methyl-3-buten-1-ynyl)-7-oxabicyclo[4.1.0]hept-3-en-2-one, see H-10004
 8-(3-Hydroxy-3-methylbutyl)-5,7-dimethoxy-2-methyl-4*H*-1-benzopyran-4-one, in D-10181
 5-Hydroxy-3-methyl-9*H*-carbazole, H-10179
 3-Hydroxy-24-methylcholesta-5,22-dien-7-one, see H-10134
 24-(Hydroxymethyl)cholesta-3,4,6,8,15,16-hexol, see E-10178
 24-(Hydroxymethyl)cholesta-3,6,8,15,16-pentol, see E-10179
 1-Hydroxymethylconduritol, see H-10180
 1-Hydroxymethylconduritol E, in H-10180
 4-Hydroxy-5-methylcoumarin, see H-10176
 ▶ 7-Hydroxy-4-methylcoumarin, see H-10177
 1-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol, H-10180
 5-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol, H-10181
 5-(Hydroxymethyl)-1,2,3,4-cyclopentanetetrol, H-10182
 22-Hydroxy-20-methyldeoxoscalarin, in E-10129
 7-Hydroxymethyl-3,11-dimethyl-2,6,9-dodecatriene-1,5,11-triol, H-10183
 7-Hydroxymethyl-3,11-dimethyl-2,6,11-dodecatriene-1,5,10-triol, H-10184
 8-(Hydroxymethyl)-2,2-dimethyl-10-(3-methyl-2-butenyl)-2*H*,6*H*-benzo[1,2-*b*:5,4-*b'*]dipyran-6-one, see P-10170
 22-Hydroxy-24-methyl-12,24-dioxo-16-scalaren-25-al, H-10185
 7-Hydroxy-3',4'-methylenedioxy-8-prenylflavanone, in T-10189
 16-Hydroxy-24-methylene-3,4-secolanosta-4(28),7,9(11)-triene-3,21-dioic acid, see P-10134

- 3-Hydroxymethylenetanshinquinone, *in* E-10106
- ▶ 4-(1-Hydroxy-1-methylethyl)-1-methylcyclohexene, *see* M-10031
- 34-Hydroxy-8-methyl-5-heptatriacontanone, H-10186
- 3-(Hydroxymethyl)-5-methoxy-1,2,4-cyclopentanetriol, *in* H-10182
- 3-(Hydroxymethyl)-6-methylbenzofuran, *see* M-10044
- 2-Hydroxymethyl-3-methylphenol, *see* H-10178
- N*-Hydroxy-14-methyl-*N*-nitrosopentadecanamine, *see* N-10030
- N*-Hydroxy-12-methyl-*N*-nitrosotridecanamine, *see* N-10032
- 12-Hydroxy-24-methyl-24-oxo-16-scalaren-25-al, H-10187
- 3-Hydroxymethylpentanoic acid γ -lactone, *see* E-10199
- 25-Hydroxy-33-methyl-6-pentatriacontanone, H-10188
- 3-Hydroxy-3-(2-methylphenyl)propanamide, *in* H-10189
- 3-Hydroxy-3-(2-methylphenyl)propanoic acid, H-10189
- 2-(Hydroxymethyl)serine, *see* A-10070
- 10-Hydroxymethylsparteine, H-10190
- 13-Hydroxymultiflorine, *in* M-10092
- 15-Hydroxy-4,11-muroladien-3-one, H-10191
- 6-Hydroxymyricetin, *see* H-10026
- β -Hydroxymyricetin, *in* N-10001
- 13-Hydroxyneocembrene, *in* C-10054
- 14-Hydroxyneocembrene, *in* C-10055
- 4-Hydroxy-2,8-neolemnadien-5-one, H-10192
- 6 α -Hydroxynidorellol, *in* L-10008
- N*-Hydroxy-*N*-nitrosohexadecanamine, *see* N-10031
- 3-Hydroxy-24-norcholesta-5,22-dien-7-one, H-10193
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- 3-Hydroxy-12-oleanen-22-one, *in* O-10024
- 10-Hydroxyoleuropein, *in* O-10033
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- 3-Hydroxy-9-oxo-1-bisabolen-15-oic acid, H-10204
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 3-(1,3,5-Tetradecatrienyl)oxiranebutanoic acid, *see* E-10078
 13-Tetradecene-1,3-diyne-6,7-diol, T-10022
 1,2,6,7-Tetradehydro-3,11,15,16-tetramethoxyerythrinan, *see* E-10192
 2,19:4,18:11,16:15,16-Tetraepoxy-6,7,19-clerodanetriol, T-10023
 1,2,3,6-Tetragalloylglucose, T-10024
 5,6,7,8-Tetrahydrobioplerin, T-10025
 3,3 α ,8,8 α -Tetrahydro-3,8-bis(4-hydroxy-3-methoxyphenyl)-1*H*-indeno[1,2-*c*]furan-5,7-diol, *see* G-10103
 Tetrahydrocolumbamine, *see* I-10029
 5,6,6 α ,14 α -Tetrahydro-5,6-dihydroxy-3,10-bis(2-phenylethyl)-1*H*,12*H*-[1]benzopyrano[7,6-*b*]pyrano[3,2-*f*][1,4]benzodioxin-1,12-dione, T-10026
 7-[Tetrahydro-4,6-dihydroxy-2-(3-hydroxy-1-octenyl)-2*H*-pyran-3-yl]-5-heptenoic acid, *see* T-10086
 5-[Tetrahydro-4,6-dihydroxy-2-(3-hydroxy-1-octenyl)-2*H*-pyran-3-yl]-3-pentenoic acid, T-10027
 1,2,3,4-Tetrahydro-1,8-dihydroxy-3-methylbenzo[*a*]anthracene-7,12-dione, *see* E-10015
 2,2',3,3'-Tetrahydro-2,2',3,5,5',10,10'-heptahydroxy-7,7'-dimethoxy-2,2',6,6'-tetramethyl[9,9'-bianthracene]-4,4'(1*H*,1'*H*)-dione, *see* T-10095
 5-[Tetrahydro-4-hydroxy-2-(3-hydroxy-1-octenyl)-6-oxo-2*H*-pyran-3-yl]-3-pentenoic acid, T-10028
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 1,2,3,4-Tetrahydro-7-hydroxy-6-methoxy-1-methylisoquinoline, T-10029
 3'*a*,5',6',6'*a*-Tetrahydro-6'-hydroxy-5'-methylspiro[furan-2(5*H*),2'(3'*H*)furo[3,2-*b*]furan]-5-one, *see* P-10177
 1,2,12,13-Tetrahydro-3-hydroxy-2-oxobergamotene, T-10030
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 1,2,3,4-Tetrahydro-4-isopropyl-6-methyl-1-methylenenaphthalene, *see* C-10011
 1,2,3,4-Tetrahydro-6-methoxy-1,2-dimethyl-7-isoquinolinol, *in* T-10029
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 ▶ Tetrahydro-1,4-oxazine, *see* M-10091
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 5,8,13,13 α -Tetrahydro-2,3,9,10-tetramethoxy-13,13-dimethyl-6*H*-dibenzo[*a,g*]quinolizine, *see* C-10128
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 7*b*,12*b*,13,14*c*-Tetrahydro-1,3,6-trihydroxy-14*H*-benzo[*c*]naphtho[2,1,8-*mma*]xanthen-14-one, *see* O-10019
 5,8,13,13 α -Tetrahydro-3,9,10-trimethoxy-6*H*-dibenzo[*a,g*]quinolizine-2-ol, *see* I-10029
 3,4,5,6-Tetrahydro-2,6,9-trimethyl-2,6-methano-2*H*-1-benzoxocin-3-ol, T-10033
 2,4,4*a*,8-Tetrahydro-2,6,8-trimethyl-4*a*-(2-oxo-propyl)pyrimido[5,4-*e*]-1,2,4-triazine-3,5,7(6*H*)-trione, *see* P-10178
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 3 β ,11,12,14-Tetrahydroxy-8,11,13-abetatriene-6,7-dione, *in* T-10125
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 3,16,20,25-Tetrahydroxycucurbit-5-ene-11,23-dione, *see* C-10141
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 1,6,8,9-Tetrahydroxydihydro- β -agarofuran, T-10042
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- 4',5,6,7-Tetrahydroxydihydroflavanol, *see* P-10051
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 1 α ,6 β ,14-Triacetoxo-9 α -benzoyloxy-4 β -hydroxy-8 α -(2-methylbutanoyloxy)dihydro- β -agarofuran, *in* H-10054
 6 β ,9 α ,14-Triacetoxo-1 α -benzoyloxy-4 β -hydroxy-8-oxodihydro- β -agarofuran, *in* H-10054
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- Vismione H, *in* D-10102
- Vitalboside F, *in* D-10212
- Vitellin, *see* P-10100
- Volkensine†, *in* P-10116
- Volonomycin A, *see* P-10016
- Vomifoline, *see* P-10076
- Waziristanine, *in* P-10001
- Webiol, *in* H-10108
- Weisiensin A, *in* K-10007
- Widdrenic acid, *see* T-10087
- Widdringtonic acid I, *see* T-10087
- Wikstroemin, *in* D-10195
- Wikstroemioidin A, *in* D-10083
- Wikstroemioidin B, *in* E-10119
- Wikstroemioidin C, *in* E-10152
- ▶ Wikstrotoxin, *in* G-10107
- Wilforine†, W-10001
- Wilformine, *in* W-10001
- Wilforzine, *in* W-10001
- Willicourtine, *in* A-10035
- Win 11831, *in* A-10035
- Winklerline, *in* N-10052
- Withacnistin, W-10002
- Withafastuosin A, W-10003
- Withafastuosin B, *in* W-10003
- Withametelin, W-10004
- Withametelin F, *in* W-10004
- Withametelin G, *in* W-10004
- Withaminimin, W-10005
- Withasomidienone, *in* H-10213
- Woodfordin D, W-10006
- Woodfordin F, W-10007
- Wrightal, *in* H-10235
- 1(5),7(11)-Xanthadiene-3,8-dione, X-10001
- 7(11),9-Xanthadiene-3,8-dione, X-10002
- Xanthochroa coumarate, X-10003
- Xanthoxylin, *in* T-10129
- Xanthoxylol, *in* P-10120
- 1(19),6,10(17),13-Xenicatetraen-18,17-olide, X-10004
- Xeranthin, *in* H-10166
- Xestoamine, X-10005
- Xestoaminol A, *in* A-10072
- Xestoaminol B, *in* A-10072
- Xestoaminol C, *in* A-10073
- Xestokerol A, *in* X-10006
- Xestokerol B, X-10006
- Xestokerol C, X-10007
- Xestoquinolide A, X-10008
- Xestoquinolide B, X-10009
- Xestospongin B, X-10010
- Xionenynic acid, *in* O-10012
- Xylopic acid, *in* H-10170
- α -D-Xylopyranosyl-(1→6)- β -D-glucopyranosyl-(1→4)-D-glucose, X-10011
- β -D-Xylopyranosyl-(1→6)- β -D-glucopyranosyl-(1→4)-D-glucose, X-10012
- α -D-Xylopyranosyl-(1→4)- α -D-xylopyranosyl-(1→6)-D-glucose, X-10013
- YC 17, *in* M-10079
- Ye-base, Y-10001
- Y 05460MA, *see* A-10104
- Yokonoside, Y-10002
- Yuankanin, *in* D-10195
- Yunnadelphinine, *in* D-10033
- Zaatirin, Z-10001
- Zaragozic acid C, Z-10002
- Zenkoside, *in* T-10062
- Zervamicin ZL, Z-10003
- Zettoside, *in* U-10020
- 17*BH*-Zettoside, *in* U-10020
- Zeylanicine, *in* E-10108
- Zeylanidine, *in* E-10108
- Zeylaninone, *in* H-10152
- Zierin, *in* H-10166
- Zierinxylósíde, *in* H-10166
- Zinc coproporphyrin III, *in* C-10126
- Zincphyrin, *in* C-10126
- Ziziphin, *in* J-10007
- Zizynnummin, *in* J-10007
- ▶ ZK 62498, *see* N-10040
- ZT, *in* E-10124

Molecular Formula Index

This Index becomes invalid after publication of the Second Supplement.

The Molecular Formula Index lists the molecular formulae of all compounds in the First Supplement whether they occur as main Entry compounds or as derivatives.

Where a molecular formula applies to a compound listed as a derivative the Dictionary Number is prefixed by the word '*in*'.

The symbol \triangleright preceding an index term indicates the Dictionary Entry contains information on toxic or hazardous properties of the compound.

The symbol † refers to a name which is known to be duplicated.

Molecular Formula Index

- BBr₃H₃P**
Phosphine; BBr₃ adduct (1:1), *in* P-10101
- BCl₂H₄P**
Phosphine; BHCl₂ adduct (1:1), *in* P-10101
- BCl₃H₃P**
Phosphine; BCl₃ adduct (1:1), *in* P-10101
- CO**
▷ Carbon monoxide, C-10022
- C₂HCl₃O**
▷ Trichloroacetaldehyde, T-10109
- C₂H₂Cl₃NO**
▷ Trichloroacetaldehyde; Oxime, *in* T-10109
- C₂H₄S₃**
1,2,4-Trithiolane, T-10204
- C₂H₆OS**
▷ Dimethyl sulfoxide, D-10286
- C₃HBr₃O₂**
2,3,3-Tribromo-2-propenoic acid, T-10107
- C₃H₂BrCl₃O**
1-Bromo-1,3,3-trichloro-2-propanone, B-10047
- C₃H₂Br₂Cl₂O**
1,1-Dibromo-3,3-dichloro-2-propanone, D-10054
1,3-Dibromo-1,3-dichloro-2-propanone, D-10055
- C₃H₂Br₃ClO**
1,1,3-Tribromo-3-chloro-2-propanone, T-10105
- C₃H₃BrCl₂O**
1-Bromo-1,3-dichloro-2-propanone, B-10044
3-Bromo-1,1-dichloro-2-propanone, B-10045
- C₃H₃Br₂ClO**
1,1-Dibromo-1-chloro-2-propanone, D-10051
1,1-Dibromo-3-chloro-2-propanone, D-10052
1,3-Dibromo-1-chloro-2-propanone, D-10053
- C₃H₃Br₂IO**
1,1-Dibromo-3-iodo-2-propanone, D-10056
- C₃H₃IO₂**
3-Iodo-2-propenoic acid, I-10017
- C₃H₃NO**
Acetyl cyanide, *in* P-10180
- C₃H₃NO₂**
5(4*H*)-Isoxazolone, I-10058
- C₃H₄BrIO**
1-Bromo-3-iodo-2-propanone, B-10046
- C₃H₄Br₂O**
1,1-Dibromo-2-propanone, D-10057
- C₃H₄INO**
3-Iodo-2-propenoic acid; Amide, *in* I-10017
- C₃H₄O₃**
3-Oxopropanoic acid, O-10061
▷ Pyruvic acid, P-10180
- C₃H₅Cl₂O₂**
2,2,2-Trichloro-1-methoxyethanol, *in* T-10109
- C₃H₅NO₂**
3-Isoxazolidinone, I-10057
Pyruvic acid; Amide, *in* P-10180
- C₃H₅NO₃**
3-(Hydroxyimino)propanoic acid, *in* O-10061
2-Isonitrosopropanoic acid, *in* P-10180
- C₃H₅O₆P**
Phosphoenolpyruvic acid, P-10102
- C₃H₆N₂O₂**
Pyruvic acid; Amide, oxime, *in* P-10180
- C₃H₆S₅**
1,2,4,5,7-Pentathioecane, P-10065
- C₃H₆S₆**
1,2,3,5,6,8-Hexathionane, H-10062
1,2,4,5,7,8-Hexathionane, H-10063
- C₃H₇NO**
▷ Dimethylformamide, D-10273
- C₄H₃Br₃O₂**
2,3,3-Tribromo-2-propenoic acid; Me ester, *in* T-10107
- C₄H₅ClO**
3-Butenoic acid; Chloride, *in* B-10052
- C₄H₅IO₂**
3-Iodo-2-propenoic acid; Me ester, *in* I-10017
- C₄H₅N**
▷ 3-Butenenitrile, *in* B-10052
- C₄H₆N₂**
▷ 4(5)-Methylimidazole, M-10064
- C₄H₆N₂O₂**
5-Methyl-2,4-imidazolidinedione, M-10065
- C₄H₆N₂O₃**
5-Methyl-2,4-imidazolidinedione; 3-*N*-Hydroxy, *in* M-10065
- C₄H₆O**
2,5-Dihydrofuran, D-10095
- C₄H₆O₂**
3-Butenoic acid, B-10052
- C₄H₆O₃**
3-Oxopropanoic acid; Me ester, *in* O-10061
Pyruvic acid; Me ester, *in* P-10180
- C₄H₇Cl₃O₂**
1,1,1-Trichloro-2,2-dimethoxyethane, *in* T-10109
2,2,2-Trichloro-1-ethoxyethanol, *in* T-10109
- C₄H₇NO**
3-Butenamide, *in* B-10052
- C₄H₇NO₃**
Pyruvic acid; Me ester, oxime, *in* P-10180
- C₄H₇N₃O₂S**
Pyroracemic acid thiosemicarbazone, *in* P-10180
- C₄H₈N₂O₂**
▷ Morpholine; *N*-Nitroso, *in* M-10091
- C₄H₈OS₂**
1,3-Dithiane; 1-Oxide, *in* D-10298
- C₄H₈O₂S₂**
1,3-Dithiane; 1,1-Dioxide, *in* D-10298
1,3-Dithiane; *cis*-1,3-Dioxide, *in* D-10298
1,3-Dithiane; *trans*-1,3-Dioxide, *in* D-10298
- C₄H₈O₄S₂**
1,3-Dithiane; 1,1,3,3-Tetraoxide, *in* D-10298
- C₄H₈S₂**
1,3-Dithiane, D-10298
- C₄H₉NO**
▷ Morpholine, M-10091
- C₄H₉NO₄**
2-Amino-3-hydroxy-2-(hydroxymethyl)propanoic acid, A-10070
- C₄H₁₀N₂O₂**
3,4-Diaminobutanoic acid, D-10044
- C₄H₁₂N₂**
▷ 1,4-Butanediamine, B-10051
- C₅H₃ClO₂**
▷ 2-Furancarboxylic acid; Chloride, *in* F-10028
- C₅H₃NO**
2-Cyanofuran, *in* F-10028
- C₅H₄O₃**
2,3-Dihydroxy-2,4-cyclopentadien-1-one, D-10130
▷ 2-Furancarboxylic acid, F-10028
- C₅H₅NO₂**
2-Furancarboxamide, *in* F-10028
- C₅H₆N₂O₂**
▷ 2-Furoylhydrazine, *in* F-10028
- C₅H₇IO₂**
3-Iodo-2-propenoic acid; Et ester, *in* I-10017
- C₅H₇NO₄**
3-Oxopropanoic acid; (*Z*)-Acetyloxime, *in* O-10061
- C₅H₈**
▷ 2-Methyl-1,3-butadiene, M-10047
- C₅H₈N₂**
1,4-Dimethyl-1*H*-imidazole, *in* M-10064
1,5-Dimethyl-1*H*-imidazole, *in* M-10064
2,4-Dimethyl-1*H*-imidazole, D-10276
- C₅H₈N₂O₂**
2-(2-Aminoethyl)-3-isoxazolin-5-one, *in* I-10058
1,5-Dimethylhydantoin, *in* M-10065
4-Piperidinone; *N*-Nitroso, *in* P-10119
- C₅H₈O₂**
3-Butenoic acid; Me ester, *in* B-10052
- C₅H₈O₃**
Pyruvic acid; Et ester, *in* P-10180
- C₅H₈O₄**
4,5-Dihydro-3-hydroxy-5-(hydroxymethyl)-2(3*H*)-furanone, D-10096
- C₅H₉N**
1,2,3,4-Tetrahydropyridine, T-10031
- C₅H₉NO**
4-Piperidinone, P-10119
- C₅H₉NO₂**
▷ 4-Morpholinecarboxaldehyde, *in* M-10091
- C₅H₉NO₃**
Pyruvic acid; Et ester, oxime, *in* P-10180
- C₅H₉O₆P**
Ethyl 2-(phosphonoxy)-2-propenoate, *in* P-10102
- C₅H₁₀N₂O**
4-Piperidinone; Oxime, *in* P-10119
- C₅H₁₀OS**
2-Methyl-1,3-oxathiane, M-10066
- C₅H₁₁NO**
▷ *N*-Methylmorpholine, *in* M-10091
- C₅H₁₁NO₂**
Morpholine; *N*-Me, *N*-Oxide, *in* M-10091
- C₅H₁₂N₂O₂**
Ornithine, O-10049
- C₅H₁₂O₄S₄**
S-[[[(Methylsulfonyl)methyl]thio]methoxy]methyl] thiomethanesulfonate, M-10071
- C₅H₁₂O₅**
▷ Ribitol, R-10032
- C₅H₁₄N₂**
1,4-Butanediamine; *N*-Me, *in* B-10051

- C₆H₅NO₄**
1*H*-Pyrrole-2,5-dicarboxylic acid, P-10179
- C₆H₆O₃**
▷ 1,2,4-Benzenetriol, B-10013
▷ 2-Furancarboxylic acid; Me ester, *in* F-10028
- C₆H₆O₅**
2-Methylene-4-oxopentanedioic acid, M-10054
2-Oxo-4-methylenepentanedioic acid, O-10059
- C₆H₇NO₄**
2-Oxo-4-methylenepentanedioic acid; 5-Amide, *in* O-10059
- C₆H₈Cl₂O₂**
Hexanedioic acid; Dichloride, *in* H-10060
- C₆H₈N₂**
▷ 1,4-Dicyanobutane, *in* H-10060
- C₆H₈O₃**
5,6-Dihydro-4-hydroxy-6-methyl-2*H*-pyran-2-one, D-10097
3-Hydroxy-4,5-dimethyl-2(5*H*)-furanone, H-10111
- C₆H₈O₅**
2-Methyl-4-oxopentanedioic acid, M-10067
- C₆H₈O₆**
Glucurrolactone, G-10088
- C₆H₈S**
▷ 2,4-Dimethylthiophene, D-10287
- C₆H₉NO₆**
Glucurrolactone; Oxime, *in* G-10088
- C₆H₁₀O**
▷ 2,4-Hexadien-1-ol, H-10046
- C₆H₁₀O₂**
3-Butenoic acid; Et ester, *in* B-10052
4-Ethylidihydro-2(3*H*)-furanone, E-10199
- C₆H₁₀O₃**
3,4-Dihydro-2-methyl-2*H*-pyran-3,4-diol, D-10098
3-Oxopropanoic acid; Isopropyl ester, *in* O-10061
- C₆H₁₀O₄**
▷ Hexanedioic acid, H-10060
- C₆H₁₁ClN₄O**
2-Amino- α -(2-amino-1-chloroethyl)-1*H*-imidazole-4-methanol, A-10056
- C₆H₁₁NO**
4-Piperidinone; *N*-Me, *in* P-10119
- C₆H₁₁NO₂**
▷ Morpholine; *N*-Ac, *in* M-10091
- C₆H₁₁NO₃**
Adipamic acid, *in* H-10060
- C₆H₁₂N₂O₂**
2,6-Diamino-4-hexenoic acid, D-10046
▷ Hexanediamide, *in* H-10060
- C₆H₁₂N₂O₃**
2,6-Diamino-4-oxohexanoic acid, D-10047
- C₆H₁₂O₅**
6-Deoxyaltrose, D-10037
5-(Hydroxymethyl)-1,2,3,4-cyclopentanetetrol, H-10182
- C₆H₁₃AsO₃**
(2-Carboxy-2-hydroxyethyl)trimethylarsonium hydroxide inner salt, C-10023
- C₆H₁₃NO**
4-Amino-4-methyl-2-pentanone, A-10071
▷ Morpholine; *N*-Et, *in* M-10091
- C₆H₁₄N₂O**
4-Amino-4-methyl-2-pentanone; Oxime, *in* A-10071
- C₆H₁₄N₂O₂**
Ornithine; *N*⁶-Me, *in* O-10049
- C₆H₁₄O₅**
Rhamnitol, R-10020
- C₆H₁₆N₂**
1,4-Butanediamine; *N,N'*-Di-Me, *in* B-10051
1,4-Butanediamine; *N*-Et, *in* B-10051
- C₇H₆O₃**
2,3-Dihydroxybenzaldehyde, D-10108
2,4-Dihydroxybenzaldehyde, D-10109
- C₇H₆O₄**
▷ 3,5-Dihydroxybenzoic acid, D-10110
- C₇H₆O₇**
Pentahydroxybenzoic acid, P-10039
- C₇H₇NO₃**
3,5-Dihydroxybenzoic acid; Amide, *in* D-10110
Resorcyllaldoxime, *in* D-10109
- C₇H₇NO₄**
1*H*-Pyrrole-2,5-dicarboxylic acid; Mono-Me ester, *in* P-10179
- C₇H₈O₃**
2,3-Dimethoxy-2,4-cyclopentadien-1-one, *in* D-10130
▷ 2-Furancarboxylic acid; Et ester, *in* F-10028
2-Methoxy-1,4-benzenediol, *in* B-10013
4-Methoxy-1,3-benzenediol, *in* B-10013
2-Methyl-1,3,5-benzenetriol, M-10043
- C₇H₁₀Cl₂O₂**
Heptanedioic acid; Dichloride, *in* H-10027
- C₇H₁₀N₂**
▷ 1,5-Dicyanopentane, *in* H-10027
- C₇H₁₀O**
3-Methyl-2-cyclohexen-1-one, M-10050
- C₇H₁₀O₃**
5,6-Dihydro-4-methoxy-6-methyl-2*H*-pyran-2-one, *in* D-10097
- C₇H₁₀O₄**
Ethyl 3-acetoxyacrylate, *in* O-10061
- C₇H₁₀O₆**
Methyl β -D-furanosidurono-6,3-lactone, *in* G-10088
Methyl α -D-glucufuranosidurono-6,3-lactone, *in* G-10088
- C₇H₁₁NO**
1-Acetyl-1,2,3,4-tetrahydropyridine, *in* T-10031
3-Methyl-2-cyclohexen-1-one; Oxime, *in* M-10050
- C₇H₁₁NO₂**
4-Piperidinone; *N*-Ac, *in* P-10119
- C₇H₁₂N₂O₅**
*N*⁷-Glutamylglycine, G-10094
- C₇H₁₂O**
4-Methyl-4-hexen-3-one, M-10063
- C₇H₁₂O₃**
3-Oxopropanoic acid; *tert*-Butyl ester, *in* O-10061
- C₇H₁₂O₄**
▷ Heptanedioic acid, H-10027
Hexanedioic acid; Me ester, *in* H-10060
- C₇H₁₂O₅**
1-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol, H-10180
5-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol, H-10181
- C₇H₁₃NO₄**
4-Ethylglutamic acid, E-10201
- C₇H₁₄N₂O₃**
Acetylornithine, *in* O-10049
Ornithine; *N*²-Ac, *in* O-10049
- C₇H₁₄O**
4-Methyl-3-hexanone, M-10062
- C₇H₁₄O₄**
2,2-Diethoxypropanoic acid, *in* P-10180
- C₇H₁₄O₅**
Salpantol, *in* H-10182
- C₇H₁₅NO₃**
2,2-Diethoxypropanamide, *in* P-10180
- C₇H₁₆N₂O₂**
Emeriamine, *in* D-10044
- C₈H₆O₄**
5,6-Dihydroxy-1(3*H*)-isobenzofuranone, D-10182
- C₈H₇ClO₂**
3-Methoxybenzoic acid; Chloride, *in* M-10038
- C₈H₇NO**
1-Cyano-3-methoxybenzene, *in* M-10038
▷ 4-Hydroxybenzeneacetonitrile, *in* H-10215
- C₈H₇NO₂**
2-Hydroxy-2-(3-hydroxyphenyl)acetic acid; Nitrile, *in* H-10166
- C₈H₈N₂O₃**
2,4-Dihydroxybenzaldehyde; Formylhydrazone, *in* D-10109
- C₈H₈O₃**
Gibepyrone F, G-10032
▷ 2-Hydroxy-3-methoxybenzaldehyde, *in* D-10108
2-Hydroxy-4-methoxybenzaldehyde, *in* D-10109
3-Hydroxy-2-methoxybenzaldehyde, *in* D-10108
4-Hydroxy-2-methoxybenzaldehyde, *in* D-10109
▷ 4-Hydroxyphenylacetic acid, H-10215
▷ 3-Methoxybenzoic acid, M-10038
- C₈H₈O₄**
3,5-Dihydroxybenzoic acid; Me ester, *in* D-10110
2-Hydroxy-2-(3-hydroxyphenyl)acetic acid, H-10166
3-Hydroxy-5-methoxybenzoic acid, *in* D-10110
2',4',6'-Trihydroxyacetophenone, T-10129
- C₈H₈O₅**
2,2',4',6'-Tetrahydroxyacetophenone, T-10035
- C₈H₉NO**
▷ 2-Aminoacetophenone, A-10055
- C₈H₉NO₂**
4-Hydroxyphenylacetic acid; Amide, *in* H-10215
3-Methoxybenzoic acid; Amide, *in* M-10038
- C₈H₉NO₄**
1*H*-Pyrrole-2,5-dicarboxylic acid; Di-Me ester, *in* P-10179
- C₈H₉N₃O₂S**
2,4-Dihydroxybenzaldehyde; Thiosemicarbazone, *in* D-10109
- C₈H₉N₃O₃**
2,4-Dihydroxybenzaldehyde; Semicarbazone, *in* D-10109
- C₈H₁₀N₂O**
2-Aminoacetophenone; Oxime, *in* A-10055
- C₈H₁₀O**
Taxifolone, M-10060
- C₈H₁₀O₂**
2-Hydroxy-6-methylbenzyl alcohol, H-10178
- C₈H₁₀O₃**
2-(3,4-Dihydroxyphenyl)ethanol, D-10235
5-Methoxy-2-methyl-1,3-benzenediol, *in* M-10043
5-Methoxy-4-methyl-1,3-benzenediol, *in* M-10043
3,8,11-Trioxatetracyclo[4.4.1.0^{2,4}.0^{7,9}]undecane, T-10202
Vinylacetic anhydride, *in* B-10052
- C₈H₁₁NO**
▷ Tyramine, T-10212
- C₈H₁₁NO₂**
3,4-Dihydro-4-propylidene-2*H*-pyrrole-2-carboxylic acid, D-10101
▷ Dopamine, D-10305

- C₈H₁₂Cl₂O₂**
Octanedioic acid; Dichloride, *in* O-10014
- C₈H₁₂N₂**
Suberonitrile, *in* O-10014
- C₈H₁₂O**
2,4-Dimethyl-2,4-hexadienal, *in* D-10275
- C₈H₁₂O₃**
Suberic anhydride, *in* O-10014
- C₈H₁₂O₄**
Garlicin†, G-10021
- C₈H₁₃ClO₃**
Heptanedioic acid; Me ester, chloride, *in* H-10027
- C₈H₁₄O**
2,4-Dimethyl-2,4-hexadien-1-ol, D-10275
4-Methyl-4-hepten-3-one, M-10059
- C₈H₁₄O₄**
Heptanedioic acid; Me ester, *in* H-10027
▷ Hexanedioic acid; Di-Me ester, *in* H-10060
Octanedioic acid, O-10014
- C₈H₁₅NO₃**
8-Amino-8-oxooctanoic acid, *in* O-10014
- C₈H₁₆N₂O₂**
N,N'-1,4-Butanediybisacetamide, *in* B-10051
Octanedioic acid; Diamide, *in* O-10014
- C₈H₁₆O**
▷ 1-Octen-3-ol, O-10016
Rhynchophorol, M-10058
- C₈H₁₆O₄**
Methyl 3,3-diethoxypropionate, *in* O-10061
- C₈H₁₆O₆**
Ethyl galactoside, E-10200
- C₈H₁₈N₂O₂**
*N*⁵-Trimethylornithine, *in* O-10049
- C₈H₁₈O₅**
Rhamnitol; 2,5-Di-Me, *in* R-10020
- C₈H₂₁N₃**
4,4'-Diaminodibutylamine, D-10045
- C₉H₄Br₃NO**
2,5,6-Tribromo-1*H*-indole-3-carboxaldehyde, T-10106
- C₉H₆N₂S**
Brassilexin, I-10053
- C₉H₆O₄**
3,7-Dihydroxy-4*H*-1-benzopyran-4-one, D-10111
- C₉H₆O₅**
2,5,7-Trihydroxy-4*H*-1-benzopyran-4-one, T-10132
- C₉H₆O₃**
2,3-Epoxy-6,8-nonadienoic acid, E-10131
- C₉H₈O₄**
▷ 2-Acetoxybenzoic acid, A-10014
5-Hydroxy-6-methoxyphthalide, *in* D-10182
6-Hydroxy-5-methoxyphthalide, *in* D-10182
- C₉H₈O₅**
Haematommic acid, F-10015
- C₉H₈O₇**
Methyl 2,3,6-trihydroxy-3,4-methylenedioxybenzoate, *in* P-10039
- C₉H₉NO₂**
2-Aminoacetophenone; *N*-Formyl, *in* A-10055
1-Cyano-2,4-dimethoxybenzene, *in* D-10265
- C₉H₁₀O₃**
3-(3,4-Dihydroxyphenyl)-2-propen-1-ol, D-10243
2,4-Dimethoxybenzaldehyde, *in* D-10109
3-Methoxybenzoic acid; Me ester, *in* M-10038
- C₉H₁₀O₄**
3,5-Dihydroxybenzoic acid; Et ester, *in* D-10110
- 3,5-Dihydroxybenzoic acid; Mono-Me ether, Me ester, *in* D-10110
2',6'-Dihydroxy-4'-methoxyacetophenone, *in* T-10129
3-(2,4-Dihydroxyphenyl)propanoic acid, D-10242
2,4-Dimethoxybenzoic acid, D-10265
▷ Flopropione, T-10182
▷ 2-Hydroxy-3-(4-hydroxyphenyl)propanoic acid, H-10167
1-(3,4,5-Trihydroxyphenyl)-2-propen-1-ol, T-10183
- C₉H₁₀O₅**
2-Methoxy-2',4',6'-trihydroxyacetophenone, *in* T-10035
- C₉H₁₁NO**
 α -Methylaminoacetophenone, *in* A-10055
- C₉H₁₁NO₃**
2,3-Dihydroxybenzaldehyde; Di-Me ether, oxime, *in* D-10108
2,4-Dihydroxybenzaldehyde; Di-Me ether, oxime, *in* D-10109
- C₉H₁₂N₂O₃**
1-(2-Oxo-5-pyrrolidinyl)-5-hydroxy-3-methyl-3-pyrrolin-2-one, O-10062
- C₉H₁₂O₃**
3,5-Dimethoxy-2-methylphenol, *in* M-10043
4-Hydroxy-3-methoxybenzeneethanol, *in* D-10235
1,2,4-Trimethoxybenzene, *in* B-10013
- C₉H₁₂O₄**
4-Formyl-3-(2-oxoethyl)-4-hexenoic acid, F-10016
- C₉H₁₃NO**
▷ *N*-Methyltyramine, *in* T-10212
- C₉H₁₃NO₇**
2- β -D-Glucopyranosyl-3-isoxazolin-5-one, *in* I-10058
- C₉H₁₃N₃O₄S**
 β -[(2-Amino-2-carboxyethyl)thio]-1*H*-imidazole-4-propanoic acid, A-10060
- C₉H₁₄Cl₂O₂**
Azelaic acid; Dichloride, *in* N-10040
- C₉H₁₄N₂**
1,7-Dicyanoheptane, *in* N-10040
- C₉H₁₄N₂O₇**
*N*⁷-Glutamylaspartic acid, G-10091
- C₉H₁₄O₅**
2,10-Dioxatricyclo[6.2.1.0^{5.11}]undecane-6,7,8-triol, D-10292
- C₉H₁₄O₆**
Glucuro lactone; Me glycoside, 2,5-di-Me, *in* G-10088
Glucuro lactone; Me glycoside, 2,5-di-Me, *in* G-10088
- C₉H₁₅Cl₂N**
Oxypterine, O-10066
- C₉H₁₅N₃O₆**
 γ -Glutamylasparagine, G-10090
- C₉H₁₅N₅O₃**
5,6,7,8-Tetrahydrobiopterin, T-10025
- C₉H₁₆N₂O₄**
Bisorcin, *in* O-10049
- C₉H₁₆N₄O₆**
 γ -Glutamylalbizziine, G-10089
- C₉H₁₆O**
2,4-Dimethyl-2,4-heptadien-1-ol, D-10274
- C₉H₁₆O₂**
6-Hydroxy-4,6-dimethyl-3-hepten-2-one, H-10112
- C₉H₁₆O₄**
▷ Azelaic acid, N-10040
Heptanedioic acid; Di-Me ester, *in* H-10027
Octanedioic acid; Mono-Me ester, *in* O-10014
- C₉H₁₈N₂O₂**
Azelaic acid; Diamide, *in* N-10040
- C₉H₁₈N₂O₃**
Emericedin A, *in* D-10044
- C₉H₁₈O₄**
Ethyl 3,3-diethoxypropionate, *in* O-10061
- C₉H₁₈O₅**
3,4-*O*-Isopropylidene-L-rhamnitol, *in* R-10020
- C₉H₂₀N₂**
N-(3-Methyl-2-butenyl)putrescine, *in* B-10051
- C₁₀H₆Br₃NO**
2,5,6-Tribromo-1-methyl-1*H*-indole-3-carboxaldehyde, *in* T-10106
- C₁₀H₆O₅**
2-Furancarboxylic acid; Anhydride, *in* F-10028
- C₁₀H₈O₃**
4-Hydroxy-5-methyl-2*H*-1-benzopyran-2-one, H-10176
▷ Hymecromone, H-10177
- C₁₀H₈O₄**
3-Hydroxy-7-methoxy-4*H*-1-benzopyran-4-one, *in* D-10111
- C₁₀H₈O₅**
Peltatone A, T-10162
- C₁₀H₉NO₄**
1-(2,3-Dihydro-2-oxo-3-furanyl)-5-(hydroxymethyl)-1*H*-pyrrole-2-carboxaldehyde, D-10100
- C₁₀H₉O₆P**
Hymecromone; Dihydrogen phosphate, *in* H-10177
- C₁₀H₁₀N₂O₂**
Echinozolinone, E-10003
- C₁₀H₁₀N₂O₃**
7-Hydroxyechinozolinone, *in* E-10003
- C₁₀H₁₀O₂**
6-Methyl-3-benzofuranmethanol, M-10044
3-(2-Methylphenyl)-2-propenoic acid, M-10068
- C₁₀H₁₀O₃**
Gibepyrone C, *in* G-10031
3-Oxopropanoic acid; Benzyl ester, *in* O-10061
- C₁₀H₁₀O₄**
2-Acetoxybenzoic acid; Me ester, *in* A-10014
2,3,8,9-Diepoxy-4,6-decadiene-1,10-diol, D-10073
3,4-Dihydro-7,8-dihydroxy-3-methyl-1*H*-2-benzopyran-1-one, D-10093
5,6-Dimethoxyphthalide, *in* D-10182
Gibepyrone D, *in* G-10031
- C₁₀H₁₀O₅**
Methyl haematommate, *in* F-10015
- C₁₀H₁₁ClO₃**
9-Chloro-*p*-mentha-1,3,5,8-tetraene-2,5,10-triol, C-10083
- C₁₀H₁₁NO**
3-(2-Methylphenyl)-2-propenamide, *in* M-10068
N-Phenyl-3-butenamide, *in* B-10052
- C₁₀H₁₁NO₂**
2-Aminoacetophenone; *N*-Ac, *in* A-10055
- C₁₀H₁₂O**
3,7-Dimethyl-2,6-octadien-4-ynal, D-10282
- C₁₀H₁₂O₂**
Gibepyrone A, G-10031
- C₁₀H₁₂O₃**
Coniferyl alcohol, *in* D-10243
4-Ethoxyphenylacetic acid, *in* H-10215
Gibepyrone B, *in* G-10031
Gibepyrone E, *in* G-10031

- 3-Hydroxy-3-(2-methylphenyl)propanoic acid, H-10189
3-Methoxybenzoic acid; Et ester, *in* M-10038
- C₁₀H₁₂O₄**
3-(2,4-Dihydroxyphenyl)propanoic acid; 4-Me ether, *in* D-10242
2,4-Dimethoxybenzoic acid; Me ester, *in* D-10265
2-Hydroxy-2-(3-hydroxyphenyl)acetic acid; Et ester, *in* H-10166
2-Hydroxy-3-(4-methoxyphenyl)propanoic acid, *in* H-10167
2-Methyl-1-(2,4,6-trihydroxyphenyl)-1-propanone, M-10077
Xanthoxylin, *in* T-10129
- C₁₀H₁₂O₅**
3-Hydroxy-1-(2,4,6-trihydroxyphenyl)-1-butanone, H-10234
Pyrenolidol, P-10177
- C₁₀H₁₃NO**
2-(*N,N*-Dimethylamino)acetophenone, *in* A-10055
▷ Morpholine; *N*-Ph, *in* M-10091
- C₁₀H₁₃NO₂**
N-Acetyltiramine, *in* T-10212
3-Hydroxy-3-(2-methylphenyl)propanamide, *in* H-10189
- C₁₀H₁₃NO₃**
2-Hydroxy-3-(4-methoxyphenyl)propanamide, *in* H-10167
- C₁₀H₁₃NO₄**
1*H*-Pyrrole-2,5-dicarboxylic acid; Di-Et ester, *in* P-10179
2',4',6'-Trihydroxyacetophenone; 2',4'-Di-Me ether, oxime, *in* T-10129
- C₁₀H₁₄**
6-(1-Propenyl)-1,4-cycloheptadiene, P-10152
- C₁₀H₁₄O**
▷ Thymol, I-10048
- C₁₀H₁₄O₃**
1,3,5-Trimethoxy-2-methylbenzene, *in* M-10043
- C₁₀H₁₄O₅**
p-Mentha-1,3,5-triene-2,5,8,9,10-pentol, M-10030
- C₁₀H₁₅N₃O₅**
2-(β-Glutaminylaminoethyl)-3-isoxazolin-5-one, *in* I-10058
- C₁₀H₁₆O₄**
Decastrictine J, D-10025
4-Decenedioic acid, D-10026
5,8-Dihydroxy-2,6-dimethyl-2,6-octadienoic acid, D-10135
Isosaturejol, I-10051
Saturejol, S-10025
- C₁₀H₁₇N₃O₈**
Aspergillomarasmin A, A-10133
- C₁₀H₁₈N₄O₆**
Argininosuccinic acid, A-10116
N²-(2-Hydroxysuccinoyl)arginine, H-10227
- C₁₀H₁₈O**
3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol, D-10269
Lavandulol, L-10033
▷ Linalool, D-10279
▷ α-Terpineol, M-10031
- C₁₀H₁₈O₂**
Isorosiridol, *in* D-10278
1-Octen-3-ol; Ac, *in* O-10016
Rosiridol, D-10278
- C₁₀H₁₈O₃**
10-Hydroxy-8-decenoic acid, H-10109
- C₁₀H₁₈O₄**
Octanedioic acid; Di-Me ester, *in* O-10014
- C₁₀H₁₉N₃O₅**
N²-γ-Glutamylornithine, G-10095
- C₁₀H₂₀N₂O₃**
Emericedin B, *in* D-10044
- C₁₀H₂₁N₅O₄**
Arginylthreonine, A-10117
- C₁₁H₈N₂OS**
Brassilexin; *N*-Ac, *in* I-10053
- C₁₁H₈O₅**
2,5,7-Trihydroxy-6-methyl-1,4-naphthoquinone, T-10164
- C₁₁H₉NO₂**
▷ 3-(1*H*-Indol-3-yl)-2-propenoic acid, I-10010
- C₁₁H₁₀N₂**
4-Methyl-2,3'-bipyridine, M-10045
4-Methyl-3,3'-bipyridine, M-10046
- C₁₁H₁₀N₂O**
4(5)-Methylimidazole; *N*-Benzoyl, *in* M-10064
- C₁₁H₁₀O₃**
Ekersenin, *in* H-10176
Harveynone, H-10004
7-Methoxy-4-methyl-2*H*-1-benzopyran-4-one, *in* H-10177
- C₁₁H₁₀O₄**
3,7-Dimethoxy-4*H*-1-benzopyran-4-one, *in* D-10111
Eugenitol, D-10133
7-Hydroxy-2-(hydroxymethyl)-5-methyl-4*H*-1-benzopyran-4-one, H-10164
Isoeugenitol, D-10134
Methyl 3-benzoyloxyacrylate, *in* O-10061
- C₁₁H₁₀O₅**
Convolvulanic acid B, *in* C-10124
2,4-Dihydroxybenzaldehyde; Di-Ac, *in* D-10109
- C₁₁H₁₀O₆**
Convolvulanic acid A, *in* C-10124
3,5-Dihydroxybenzoic acid; Di-Ac, *in* D-10110
- C₁₁H₁₁NO**
4-Hydroxy-2,3-dimethylquinoline, H-10114
- C₁₁H₁₂O₃**
3-(3-Hydroxypropyl)phthalide, H-10223
- C₁₁H₁₂O₄**
2-Acetoxybenzoic acid; Et ester, *in* A-10014
Convolvulol, C-10124
- C₁₁H₁₂O₅**
1,2,4-Benzenetriol; 1-Me ether, 2,4-di-Ac, *in* B-10013
1,2,4-Benzenetriol; 2-Me ether, 1,4-di-Ac, *in* B-10013
Convolvulopyrone, C-10125
Ethyl haematommate, *in* F-10015
- C₁₁H₁₃ClO₃**
9-Chloro-6-methoxy-*p*-mentha-1,3,5,8-tetraene-3,10-diol, *in* C-10083
- C₁₁H₁₃NO**
4-Piperidinone; 1-Ph, *in* P-10119
- C₁₁H₁₃NO₂**
2-Aminoacetophenone; *N*-Me, *N*-Ac, *in* A-10055
▷ Morpholine; *N*-Benzoyl, *in* M-10091
- C₁₁H₁₄O**
Cadoxirene, C-10038
- C₁₁H₁₄O₄**
2',6'-Dihydroxy-4'-methoxy-2-methylpropiophenone, *in* M-10077
3-(2,4-Dihydroxyphenyl)propanoic acid; Di-Me ether, *in* D-10242
3-(2,4-Dihydroxyphenyl)propanoic acid; 4-Me ether, Me ester, *in* D-10242
2-Hydroxy-2-(3-hydroxyphenyl)acetic acid; 3-Me ether, Et ester, *in* H-10166
2-Hydroxy-3-(4-hydroxyphenyl)propanoic acid; 4'-Me ether, Me ester, *in* H-10167
2-Methoxy-3-(4-methoxyphenyl)propanoic acid, *in* H-10167
- Robustol B, *in* M-10077
Sinapyl alcohol, S-10065
2',4',6'-Trimethoxyacetophenone, *in* T-10129
- C₁₁H₁₄O₆**
Kingside aglycone, *in* K-10012
- C₁₁H₁₅NO₂**
Isosalsoline, T-10029
- C₁₁H₁₅N₅O₄**
Pyrizinostatin, P-10178
- C₁₁H₁₆**
Dictyoptere B, H-10048
4-(1,3-Hexadienyl)-1-cyclopentene, H-10047
Multifidene, B-10053
- C₁₁H₁₆O**
Thymol methyl ether, *in* I-10048
- C₁₁H₁₆O₄**
Dihydrosyringenin, *in* S-10065
- C₁₁H₁₆O₅**
Loganetin, *in* L-10059
- C₁₁H₁₇NO**
▷ Tecomanine, T-10015
- C₁₁H₁₇NO₂**
4-Hydroxytecomanine, *in* T-10015
- C₁₁H₁₈**
3-Butyl-4-vinylcyclopentene, *in* B-10053
Dictyoptere A, *in* H-10048
4-(1-Hexenyl)cyclopentene, *in* H-10047
- C₁₁H₁₈Cl₂O₂**
Undecanedioic acid; Dichloride, *in* U-10006
- C₁₁H₁₈N₂O**
Baptisia Alkaloid P₂, A-10049
- C₁₁H₁₈O₈**
6-Tuliposide A, T-10211
- C₁₁H₁₈O₁₁**
4-*O*-α-D-Galactopyranuronosyl-D-xylose, G-10017
3-*O*-α-D-Glucopyranuronosyl-D-xylose, G-10086
- C₁₁H₁₉N₃O₇S**
γ-Glutamylcysteinylserine, G-10092
- C₁₁H₂₀O₃**
10-Hydroxy-8-decenoic acid; Me ester, *in* H-10109
- C₁₁H₂₀O₄**
Azelaic acid; Di-Me ester, *in* N-10040
Undecanedioic acid, U-10006
- C₁₁H₂₁NO**
Incarvillein, I-10006
- C₁₁H₂₂N₂O₃**
Emericedin C, *in* D-10044
- C₁₁H₂₂O**
Nostrenol, U-10008
- C₁₁H₂₂O₃**
3-Hydroxyundecanoic acid, H-10241
- C₁₁H₂₃AsO₉S**
2-Hydroxy-3-(sulfoxy)propyl-5-deoxy-5-(trimethylarsonio)-β-D-ribofuranoside, H-10228
- C₁₁H₂₃NO₉**
4-*O*-(2-Amino-2-deoxy-D-glucopyranosyl)-D-ribose, A-10069
- C₁₁H₂₄O₂**
1,11-Undecanediol, U-10007
- C₁₁H₂₅N₂O₂[⊕]**
Miokinine, *in* O-10049
- C₁₁H₂₈N₄**
N¹-(3-Aminopropyl)homospermidine, *in* D-10045
Canavalmine, C-10018
- C₁₂H₆O₆**
Gomphilactone, G-10108

- C₁₂H₇NO₂
3*H*-Phenoxazin-3-one, P-10097
- C₁₂H₁₀BrN₃O₂
Igzamide, I-10002
- C₁₂H₁₀O₄
Hymecromone; Ac, in H-10177
- C₁₂H₁₁NO₂
3-(1*H*-Indol-3-yl)-2-propenoic acid; Me ester, in I-10010
- C₁₂H₁₁N₃O₃
Leucettamine B, L-10045
- C₁₂H₁₂O₃
3-(Acetoxymethyl)-6-methylbenzofuran, in M-10044
3-Butylidene-7-hydroxyphalide, in L-10052
- C₁₂H₁₂O₄
Cycloarthropsone, C-10167
Eugenitin, in D-10133
Isoeugenitin, in D-10134
8-Methyl Eugenitol, D-10254
- C₁₂H₁₂O₆
1,2,4-Benzenetriol; Tri-Ac, in B-10013
- C₁₂H₁₃NO₂
Isosalsolidine, D-10267
4-Piperidinone; *N*-Benzoyl, in P-10119
- C₁₂H₁₃NO₃
Nigellimine *N*-oxide, in D-10267
- C₁₂H₁₄O₂
Ligustilide, L-10052
3-(2-Methylphenyl)-2-propenoic acid; Et ester, in M-10068
- C₁₂H₁₄O₃
Chuangxinol, B-10054
(*Z*)-6,7-Epoxyiligustilide, in L-10052
Senkyunolide F, in L-10052
- C₁₂H₁₄O₄
2-Acetoxybenzoic acid; Propyl ester, in A-10014
Arthropatriol C, A-10128
Arthropatriol D, in A-10128
Margocetin, in D-10093
Sordariolone, S-10081
- C₁₂H₁₄O₅
2',4',6'-Trihydroxyacetophenone; 2',4'-Di-Me ether, Ac, in T-10129
- C₁₂H₁₄O₉
1,2,5-Tri-*O*-acetyl- α -D-glucurono-6,3-lactone, in G-10088
- C₁₂H₁₅NO
4-Piperidinone; *N*-Benzyl, in P-10119
- C₁₂H₁₅NO₃
Tyramine; *O,N*-Di-Ac, in T-10212
- C₁₂H₁₆N₂O₃
*N*⁵-Benzoylornithine, in O-10049
Ornithine; *N*⁶-Benzoyl, in O-10049
- C₁₂H₁₆N₂O₁₀
2-[6-(3-Nitropropanoyl)- β -D-glucopyranosyl]-3-isoxazolin-5-one, in I-10058
- C₁₂H₁₆O₂
6-Hydroxy-11,12,13-trinor-1(10),7-nardosinadien-9-one, H-10236
Thymol; Ac, in I-10048
11,12,13-Trinor-1,3,5-bisabolatrien-10-ic acid, T-10199
- C₁₂H₁₆O₃
U 89901, in H-10189
- C₁₂H₁₆O₄
Arthropadiol A, in A-10127
Arthropadiol B, A-10126
2-Hydroxy-3-(4-hydroxyphenyl)propanoic acid; Di-Me ether, Me ester, in H-10167
Ligustilide; 6,7-Dihydro, *trans*-6,7-dihydroxy, in L-10052
Senkyunolide H, in L-10052
- C₁₂H₁₆O₅
Cycloarthropsadiol C, C-10166
Ribitol; 2,4-*O*-Benzylidene, in R-10032
2,2',4',6'-Tetramethoxyacetophenone, in T-10035
- C₁₂H₁₆O₆
1,2-*O*-Cyclohexylidene- α -D-glucurono-6,3-lactone, in G-10088
- C₁₂H₁₆O₇
Pentamethoxybenzoic acid, in P-10039
- C₁₂H₁₆O₁₂
 β -D-Galacto-4-enepyranuronosyl-D-galacturonic acid, G-10001
- C₁₂H₁₇NO₂
(-)-1-Methylcorypalline, in T-10029
N-Methylisosalsoline, in T-10029
- C₁₂H₁₇NO₃
Stemoamide, S-10112
- C₁₂H₁₇N₃O₆
Nagstatin, N-10002
- C₁₂H₁₈AsN₅O₄
5'-Deoxy-5'-(dimethylarsinyl)adenosine, D-10039
- C₁₂H₁₈O
2-Ethoxy-1-isopropyl-4-methylbenzene, in I-10048
11,12,13-Trinor-6,10(14)-guaiadien-4-ol, T-10200
- C₁₂H₁₈O₄
Arthropatriol A, A-10127
Arthropatriol B, in A-10127
- C₁₂H₁₈O₅
Acetylisosaturejol, in I-10051
Acetylsaturejol, in S-10025
- C₁₂H₁₈O₈
Gerberin, in D-10097
- C₁₂H₁₈O₁₃
4-*O*- α -D-Galactopyranuronosyl-D-galacturonic acid, G-10015
4-*O*- β -D-Mannopyranuronosyl-D-mannuronic acid, M-10016
- C₁₂H₁₉NO₂
2-Aminoacetophenone; Di-Et ketal, in A-10055
- C₁₂H₂₀O
Dehydrogeosmin, in G-10025
- C₁₂H₂₀O₂
Dihydro-5-(1-octenyl)-2(3*H*)-furanone, D-10099
2,8-Dodecadienoic acid, D-10301
▶ Lavandulol; Ac, in L-10033
Linalool acetate, in D-10279
11-Methyl-3-undecenolide, M-10078
- C₁₂H₂₀O₃
12-Oxo-10-dodecenoic acid, O-10054
- C₁₂H₂₀O₁₁
2-*O*- α -D-Glucopyranosyl-L-rhamnose, G-10069
4-*O*-(4-*O*-Methyl- α -D-glucopyranuronosyl)-L-arabinose, M-10057
3-*O*-(4-*O*-Methyl- α -D-glucopyranuronosyl)-D-xylose, in G-10086
- C₁₂H₂₀O₁₂
Acaciabiuronic acid, A-10011
4-*O*- α -D-Galactopyranuronosyl-D-galactose, G-10013
3-*O*- β -D-Galactopyranuronosyl-D-galactose, G-10014
3-*O*- α -D-Glucopyranuronosyl-D-galactose, G-10076
4-*O*- α -D-Glucopyranuronosyl-D-galactose, G-10077
3-*O*- β -D-Glucopyranuronosyl-D-galactose, G-10078
4-*O*- β -D-Glucopyranuronosyl-D-galactose, G-10079
- 4-*O*- α -D-Glucopyranuronosyl-L-galactose, G-10080
2-*O*- β -D-Glucopyranuronosyl-D-mannose, G-10083
- C₁₂H₂₁N₃O₆
*N*⁵-Acetyl-*N*⁷- γ -glutamylornithine, in G-10095
- C₁₂H₂₂O
4,6-Dimethyl-4-decen-3-one, D-10270
Geosmin, G-10025
- C₁₂H₂₂O₂
6-Heptyltetrahydro-2*H*-pyran-2-one, H-10031
- C₁₂H₂₂O₄
▶ Octanedioic acid; Di-Et ester, in O-10014
Undecanedioic acid; Mono-Me ester, in U-10006
- C₁₂H₂₂O₅
1,2,3,4-Di-*O*-isopropylidene-L-rhamnitol, in R-10020
- C₁₂H₂₂O₉
2-*O*- α -L-Fucopyranosyl-L-fucose, F-10023
- C₁₂H₂₂O₁₀
2-*O*- β -D-Glucopyranosyl-L-rhamnose, G-10070
3-*O*- β -D-Glucopyranosyl-L-rhamnose, G-10071
4-*O*- β -D-Glucopyranosyl-L-rhamnose, G-10072
- C₁₂H₂₂O₁₁
1-*O*- α -D-Glucopyranosyl-D-fructose, G-10043
4-*O*- β -D-Mannopyranosyl-D-glucose, M-10013
- C₁₂H₂₃NO₁₀
 β -D-Galactopyranosyl(1→3)-2-amino-2-deoxy-D-galactose, G-10003
 β -D-Glucopyranosyl(1→3)-2-amino-2-deoxy-D-galactose, G-10042
- C₁₂H₂₆O₂
1,12-Dodecanediol, D-10302
- C₁₂H₂₉O₆PSi₃
Trimethylsilyl 2-[bis(trimethylsilyloxy)phosphinyl]oxy-2-propenoate, in P-10102
- C₁₃H₈O₆
Norswertianine, T-10073
- C₁₃H₈O₈
Phyllanthusin E, P-10105
- C₁₃H₉NO₃
1,8-Dihydroxyacridone, D-10107
- C₁₃H₉NO₄
1,3,8-Trihydroxyacridone, T-10130
- C₁₃H₉NO₅
1,2,3,5-Tetrahydroxyacridone, T-10036
- C₁₃H₉NO₆
1,2,3,5,6-Pentahydroxyacridone, P-10038
- C₁₃H₁₀N₂O
8-Hydroxy-1-vinyl- β -carboline, H-10244
- C₁₃H₁₀O₄
3,5-Dihydroxybenzoic acid; Ph ester, in D-10110
- C₁₃H₁₀O₅
7-Acetyl-2,8-dihydroxy-6-methyl-1,4-naphthoquinone, A-10017
- C₁₃H₁₀O₆
3,7-Dihydroxy-4*H*-1-benzopyran-4-one; Di-Ac, in D-10111
- C₁₃H₁₁NO
5-Hydroxy-3-methyl-9*H*-carbazole, H-10179
- C₁₃H₁₁NO₂
2,3-Dihydroxy-6-methyl-9*H*-carbazole, D-10199
- C₁₃H₁₁NO₄
Haplopinine, H-10002

- C₁₃H₁₂N₂O
3-Ethyl-1*H*-pyrazolo[1,5-*b*]isoquinolin-9-one, E-10205
γ-Harmine, M-10040
- C₁₃H₁₂O₅
Arthropolide B, *in* A-10129
Arthropolide C, *in* A-10129
- C₁₃H₁₃NO
Leiocarpone, L-10039
- C₁₃H₁₄O₄
5-Acetyl-2,3-dihydro-3,6-dihydroxy-2-isopropenylbenzofuran, A-10016
Goniodiol, G-10109
- C₁₃H₁₄O₅
Achilleppolide, A-10019
Arthropolide A, *in* A-10129
Epigoniofufurone, *in* G-10110
Goniofufurone, G-10110
Goniotriol, *in* G-10109
- C₁₃H₁₄O₆
Glucuro lactone; 5-Benzyl, *in* G-10088
2-Methyl-1,3,5-benzenetriol; Tri-Ac, *in* M-10043
- C₁₃H₁₅ClO₄
9-Chloro-*p*-mentha-1,3,5,8-tetraene-2,5,10-triol; 2-Me ether, 10-Ac, *in* C-10083
- C₁₃H₁₅Cl₃O₂
Neocarzirin B, T-10110
- C₁₃H₁₅NO₃
Apidionene, A-10106
- C₁₃H₁₆Cl₂O₂
Neocarzirin C, *in* T-10110
- C₁₃H₁₆N₆O₄
Ye-base, Y-10001
- C₁₃H₁₆O₄
2-Acetoxybenzoic acid; Butyl ester, *in* A-10014
- C₁₃H₁₆O₅
Arthropolide D, A-10129
- C₁₃H₁₆O₈
1-(4-Hydroxybenzoyl)glucose, H-10085
- C₁₃H₁₆O₁₀
2-Galloylglucose, G-10018
- C₁₃H₁₆O₁₁S
PLMF 4, *in* P-10081
- C₁₃H₁₆O₁₂S
PLMF 3, *in* P-10081
- C₁₃H₁₆O₁₃S
PLMF 1, *in* P-10081
PLMF 6, *in* P-10081
- C₁₃H₁₆O₁₆S₂
PLMF 2, *in* P-10081
- C₁₃H₁₈N₂O₄
Ornithine; *N*²-Benzyloxycarbonyl, *in* O-10049
Ornithine; *N*²-Benzyloxycarbonyl, *in* O-10049
- C₁₃H₁₈O
3-(4-Isopropylphenyl)-2-methylpropanal, I-10049
- C₁₃H₁₈O₂
Qinghaosu I, Q-10001
- C₁₃H₁₈O₄
Conglomerone, *in* M-10077
- C₁₃H₁₈O₇
Pentahydroxybenzoic acid; Penta-Me ether, Me ester, *in* P-10039
- C₁₃H₁₈O₈
1,2,4-Benzenetriol; 2-Me ether, 1-*O*-β-D-glucopyranoside, *in* B-10013
- C₁₃H₁₉NO₄
Tuberostemospironine, T-10210
- C₁₃H₂₀O
4,8-Megastigmadien-7-one, M-10025
- C₁₃H₂₀O₂
3-Hydroxy-5,7-megastigmadien-9-one, H-10173
Stegobiene, S-10110
- C₁₃H₂₀O₃
5,11-Epoxy-9-hydroxy-7-megastigmen-3-one, E-10111
Norannuic acid, N-10042
- C₁₃H₂₁N₃O₈S
γ-Glutamyl-γ-glutamylcysteine, G-10093
- C₁₃H₂₂O₃
Acaterin, H-10198
12-Oxo-10-dodecenoic acid; Me ester, *in* O-10054
- C₁₃H₂₂O₁₂
Acaciabiuronic acid; Me ester, *in* A-10011
3-*O*-β-D-Glucopyranuronosyl-D-galactose; 6'-Me ester, *in* G-10078
- C₁₃H₂₄O₃
6,9-Epoxy-3,5-megastigmanediol, E-10128
- C₁₃H₂₄O₄
Undecanedioic acid; Di-Me ester, *in* U-10006
Undecanedioic acid; Mono-Et ester, *in* U-10006
- C₁₃H₂₄O₉
Methyl 2-*O*-α-L-fucopyranosyl-α-L-fucopyranoside, *in* F-10023
Methyl 2-*O*-α-L-fucopyranosyl-β-L-fucopyranoside, *in* F-10023
- C₁₃H₂₄O₁₀
4-*O*-β-D-Glucopyranosyl-L-rhamnose; Me glycoside, *in* G-10072
- C₁₃H₂₅N
Tridecanoic acid; Nitrile, *in* T-10119
- C₁₃H₂₅NO₁₀
4-*N*-Acetylglucosaminylribitol, *in* A-10069
- C₁₃H₂₆O₂
▷ Tridecanoic acid, T-10119
- C₁₃H₂₇NO
Tridecanoic acid; Amide, *in* T-10119
- C₁₃H₂₈O₂
1,13-Tridecanediol, T-10118
- C₁₄H₈Cl₂O₅
2,4-Dichloronorlichexanthone, D-10059
- C₁₄H₈N₂O₂
9-Hydroxycanthin-6-one, H-10092
- C₁₄H₈N₂O₃
9-Hydroxycanthin-6-one *N*³-oxide, *in* H-10092
- C₁₄H₈O₅
6-Hydroxy-2-oxo-2*H*-naphtho[1,2-*b*]pyran-5-carboxylic acid, H-10210
1,2,6-Trihydroxyanthraquinone, T-10131
- C₁₄H₈O₆
1,2,4,6-Tetrahydroxyanthraquinone, T-10037
3,6,7,8-Tetrahydroxy-1,4-phenanthraquinone, T-10065
- C₁₄H₉NO₃
Toddaquinoline, T-10092
- C₁₄H₁₀O₅
1-(2,4-Dihydroxyphenyl)-2-(4-hydroxyphenyl)ethanedione, D-10239
- C₁₄H₁₀O₆
O-Demethylanhydrofusarubin, *in* A-10088
Swertianine, *in* T-10073
- C₁₄H₁₀O₁₀
4,4',5,5',6,6'-Hexahydroxy-2,2'-biphenyldicarboxylic acid, H-10051
- C₁₄H₁₁NO₂
Clausenale, *in* D-10199
- C₁₄H₁₁NO₃
1,8-Dihydroxy-10-methylacridone, *in* D-10107
- C₁₄H₁₁NO₄
1,3,8-Trihydroxy-10-methylacridone, *in* T-10130
- C₁₄H₁₂O₃
Seselin, S-10050
- C₁₄H₁₂O₅
7-Acetyl-2-hydroxy-8-methoxy-6-methyl-1,4-naphthoquinone, *in* A-10017
Orientalone, *in* A-10017
- C₁₄H₁₃NO
Glycozolicine, *in* H-10179
- C₁₄H₁₃NO₃
3-(1*H*-Indol-3-yl)-2-propenoic acid; Me ester, *N*-Ac, *in* I-10010
- C₁₄H₁₃NO₇
▷ Narciclasine, N-10004
- C₁₄H₁₄N₂O
3-Propyl-1*H*-pyrazolo[1,5-*b*]isoquinolin-9-one, P-10153
- C₁₄H₁₄O₂
2-(2,4-Hexadiynylidene)-1,6-dioxaspiro[4.5]dec-3-ene, H-10049
Sesalin, *in* S-10050
- C₁₄H₁₄O₃
2-(2,4-Hexadiynylidene)-3,4-epoxy-1,6-dioxaspiro[4.5]decane, *in* H-10049
- C₁₄H₁₄O₄
Dihydrooxyresveratrol, T-10038
- C₁₄H₁₄O₅
Eugenitol; 7-Me ether, 5-Ac, *in* D-10133
- C₁₄H₁₅NO₃
1-Acetoxyethyl-2,3-dimethyl-4(1*H*)-quinolinone, *in* H-10114
- C₁₄H₁₅NO₆
7-Deoxy-*cis*-dihydronearciclasine, *in* N-10004
7-Deoxy-*trans*-dihydronearciclasine, *in* N-10004
- C₁₄H₁₅NO₇
cis-Dihydronearciclasine, *in* N-10004
trans-Dihydronearciclasine, *in* N-10004
- C₁₄H₁₆O₂
Gleucolin, A-10018
- C₁₄H₁₆O₃
Drupanin, D-10311
3-(Isobutyryloxymethyl)-6-methylbenzofuran, *in* M-10044
- C₁₄H₁₆O₄
3-[4-Hydroxy-3-(4-hydroxy-3-methyl-2-butenyl)phenyl]-2-propenoic acid, H-10163
- C₁₄H₁₇Cl₃O₂
Neocarzirin A, T-10111
- C₁₄H₁₇NO₇
Holocalin, *in* H-10166
Zierin, *in* H-10166
- C₁₄H₁₈N₂O
Δ⁵-Dehydroalbine, *in* A-10039
- C₁₄H₁₈O₄
2-Acetyl-1-*O*-methyl-6-*O*-prenylphloroglucinol, *in* T-10129
Panellone, *in* P-10009
- C₁₄H₁₈O₆
Colletoketol, *in* C-10115
- C₁₄H₁₈O₁₂S
PLMF 5, *in* P-10081
- C₁₄H₁₉N₃
Xestoamine, X-10005
- C₁₄H₂₀N₂O
Albine, A-10039
Dehydroangustifoline, *in* A-10087
- C₁₄H₂₀O₂
1,5-Epoxy-14-nor-11-guaien-10-one, E-10135
Panaxyne, T-10022

- C₁₄H₂₀O₃**
Sulcatine F, S-10127
- C₁₄H₂₀O₄**
1,10-Epoxy-2-hydroxy-13-nor-7,11-nardosinanedione, E-10112
Panellol, P-10009
- C₁₄H₂₀O₅**
Colletalol, *in* C-10115
Colletol, *in* C-10115
- C₁₄H₂₀O₆**
Clonostachydiol, *in* C-10115
Colletodiol, C-10115
Meliracemoic acid, M-10029
- C₁₄H₂₁ClO₃**
Napalilactone, N-10003
- C₁₄H₂₁NO₇**
Dopamine 3-*O*-glucoside, *in* D-10305
- C₁₄H₂₂N₂O**
Angustifoline†, A-10087
- C₁₄H₂₂O**
Inflatenone, I-10011
13-Nor-1,3-elemadien-11-one, N-10044
- C₁₄H₂₂O₄**
Cassiol, *in* C-10031
Pathylactone A, P-10015
Rosiridol; Enantiomer, di-Ac, *in* D-10278
3,5,10-Trihydroxy-10-methyl-6,7-megastigmadien-9-one, T-10163
- C₁₄H₂₂O₉**
Barbapyroside, *in* D-10098
Sapopyroside, *in* D-10098
- C₁₄H₂₂O₁₀**
5-Deoxyholmioside, *in* H-10067
- C₁₄H₂₂O₁₁**
Holmioside, H-10067
- C₁₄H₂₃N₃O₈S**
(*γ*-Glutamyl-*γ*-glutamyl)-*S*-methylcysteine, *in* G-10093
- C₁₄H₂₄N₂**
Deoxoangustifoline, *in* A-10087
- C₁₄H₂₅NO₁₁**
2-Acetamido-2-deoxy-3-*O*-*β*-D-galactopyranosyl-D-galactose, *in* G-10003
3-*β*-Glucosyl-*N*-acetylgalactosamine, *in* G-10042
- C₁₄H₂₇NO**
2-Amino-11,13-tetradecadien-3-ol, A-10072
- C₁₄H₂₈O₂**
Tridecanoic acid; Me ester, *in* T-10119
- C₁₄H₃₀N₂O₂**
Nitrosoxacin C, N-10032
- C₁₄H₃₀O₂**
1,12-Dodecanediol; Di-Me ether, *in* D-10302
- C₁₄H₃₁NO**
2-Amino-3-tetradecanol, A-10073
- C₁₄H₃₅N₅**
N'-(3-Aminopropyl)canavalmine, *in* C-10018
- C₁₅H₈BrN₃O**
Pantherinine, P-10010
- C₁₅H₁₀N₂O₂**
9-Methoxycanthin-6-one, *in* H-10092
- C₁₅H₁₀N₂O₃**
8-Hydroxy-9-methoxycanthin-6-one, H-10174
9-Methoxycanthin-6-one *N*³-oxide, *in* H-10092
- C₁₅H₁₀O₄**
Digiferruginol, H-10162
2',5'-Dihydroxyflavone, D-10163
2',7-Dihydroxyflavone, D-10164
7,8-Dihydroxyflavone, D-10165
4',5-Dihydroxyisoflavone, D-10183
- C₁₅H₁₀O₅**
1,6-Dihydroxy-2-methoxyanthraquinone, *in* T-10131
- 3-(3,4-Dihydroxyphenyl)-8-hydroxy-2*H*-1-benzopyran-2-one, D-10237
- ▶ Lucidin†, D-10180
Morindone, T-10160
Rheinanthrone, D-10094
Rubilactone, *in* H-10210
1,3,8-Trihydroxy-2-methylantraquinone, T-10161
- C₁₅H₁₀O₆**
Demethoxycapillaridin, *in* T-10132
- ▶ Luteolin, T-10052
1,3,5-Trihydroxy-2-hydroxymethylantraquinone, T-10152
- C₁₅H₁₀O₇**
2',4',5,5',6-Pentahydroxyflavone, P-10055
- C₁₅H₁₀O₈**
3',4',5',6,7,8-Hexahydroxyflavone, H-10056
1,2,4,5,6,7-Hexahydroxy-3-methylantraquinone, H-10057
- C₁₅H₁₀O₉**
3,3',4',5,5',6,7-Heptahydroxyflavone, H-10026
- C₁₅H₁₀O₉S**
Luteolin; 3'-*O*-Sulfate, *in* T-10052
Luteolin; 4'-*O*-Sulfate, *in* T-10052
Luteolin; 7'-*O*-Sulfate, *in* T-10052
- C₁₅H₁₀O₁₂S₂**
Luteolin; 3',7-Di-*O*-sulfate, *in* T-10052
- C₁₅H₁₂O₂**
3-(4-Hydroxyphenyl)-1-phenyl-2-propen-1-one, H-10218
Pterocarpan, P-10168
- C₁₅H₁₂O₃**
2,4-Dihydroxychalcone, D-10125
3,3'-Dihydroxychalcone, D-10126
- C₁₅H₁₂O₄**
Acetylsalol, *in* A-10014
1,8-Dihydroxy-3-(hydroxymethyl)-9(10*H*)-anthracenone, D-10179
1-(2,4-Dihydroxyphenyl)-3-(4-hydroxyphenyl)-2-propen-1-one, D-10240
- C₁₅H₁₂O₅**
Anhydro-5-deoxyfusarubin, *in* A-10088
6-Deoxyanhydrofusarubin, *in* A-10088
2,4-Dihydroxy-4'-methoxybenzil, *in* D-10239
- C₁₅H₁₂O₆**
Anhydrofusarubin, A-10088
Dalbergioidin, T-10055
2,6-Dihydroxy-1,8-dimethoxyxanthone, *in* T-10073
Isokanin, *in* P-10040
Okaniin, P-10040
Swertiaperenine, *in* T-10073
Swertinin, *in* T-10073
2',5,6',7-Tetrahydroxyflavanone, T-10050
- C₁₅H₁₂O₇**
3,4',5,6,7-Pentahydroxyflavanone, P-10051
2,3,6*a*,8,9-Pentahydroxypterocarpan, P-10062
▶ Taxifolin, P-10050
- C₁₅H₁₃NO₄**
Oligophylidine, *in* T-10130
- C₁₅H₁₄O₄**
3,5,7-Trihydroxyflavan, T-10147
- C₁₅H₁₄O₅**
7-Acetyl-2,8-dimethoxy-6-methyl-1,4-naphthoquinone, *in* A-10017
Atrochryson, D-10102
6,7-Dimethoxy-5-(3-oxo-1-butenyl)-2*H*-1-benzopyran-2-one, D-10268
2',3',4',7-Tetrahydroxyisoflavan, T-10054
- C₁₅H₁₄O₆**
1,8:4,5-Diepoxy-7(11),9-germacradiene-12,8:14,6-dioliide, D-10076
1-(2,4-Dihydroxyphenyl)-3-(3,4-dihydroxyphenyl)-2-hydroxy-1-propanone, D-10233
2',3',4',5',7-Pentahydroxyisoflavan, P-10057
- C₁₅H₁₅NO₂**
N-Benzoyltyramine, *in* T-10212
N-(1-Hydroxyethyl)benzanilide, H-10135
- C₁₅H₁₆Br₃ClO₂**
10-Bromoobtusallene, *in* O-10003
- C₁₅H₁₆O₂**
Dehydroshizukanolide, *in* S-10060
- C₁₅H₁₆O₃**
Chloranthalactone B, *in* S-10060
Chloranthalactone F, *in* S-10060
8,12-Epoxy-1(10),4,7,11-germacratetraen-15,6-olide, E-10089
Gerberacoumarin, *in* H-10176
- C₁₅H₁₆O₄**
Emmotin I, E-10013
1,10-Epoxyfuranomerophilane-6,9-dione, *in* E-10086
8,12-Epoxy-9-hydroxy-1(10),4,7,11-germacratetraen-15,6-olide, E-10108
8*α*-Hydroxydehydrozalanin C, *in* D-10175
Linderane, *in* E-10089
Pergillin, P-10079
2,3,9-Trihydroxy-14-cadalenal, T-10133
- C₁₅H₁₆O₅**
6,8-Dihydroxy-3-oxo-1,7(11),9-eremophilatrien-12,8-olide, D-10219
Goniodiol monoacetate, *in* G-10109
1-Hydroxy-4,7(11),9-germacradiene-12,8:15,6-olide, H-10152
(+)-Linderadine, *in* E-10089
Linderadine, *in* E-10089
- C₁₅H₁₆O₆**
8-Acetylgoniotriol, *in* G-10109
Acutotrinone, *in* H-10152
Deacetylzeylanidine, *in* E-10108
1,10:4,5-Diepoxy-7(11)-germacrene-12,8:15,6-dioliide, D-10077
1,8-Dihydroxy-4,7(11),9-germacradiene-12,8:15,6-dioliide, D-10171
- C₁₅H₁₇BrN₂**
Arborescicine A, *in* O-10013
- C₁₅H₁₇Br₂ClO₂**
Obtusallene I, O-10003
- C₁₅H₁₇NO₅**
Antibiotic AH 135Y, A-10098
- C₁₅H₁₈N₂**
1,2,3,4,6,7,12,12*b*-Octahydroindolo[2,3-*a*]quinolizine, O-10013
- C₁₅H₁₈N₂O**
Huperzine A, H-10074
Isoselagine, *in* H-10074
- C₁₅H₁₈N₂O₂**
6*β*-Hydroxyhuperzine A, *in* H-10074
- C₁₅H₁₈O**
3-Cadalenol, C-10002
8,12-Epoxy-1(10),4(15),7,11-guaiatetraene, E-10092
- C₁₅H₁₈O₂**
Chrysorrhellactone, C-10095
1,9-Epoxy-1,3,5,10-bisabolatetraen-12-al, E-10033
6,12-Epoxy-6,9,11-pseudoguaiatrien-8-one, E-10145
Furanoeudesm-4-en-6-one, F-10034
Shizukanolide, S-10060
- C₁₅H₁₈O₃**
8,9-Dihydroonoseriolide, *in* S-10060
9,10-Epoxy-8-furanomexicanone, *in* E-10145
Furanomerophilane-6,9-dione, *in* H-10148
6-Hydroxy-1(10),7(11),8-eremophilatrien-12,8-olide, H-10131
4-Hydroxy-2,10(14),11(13)-guaiatrien-12,6-olide, H-10155
7-Ketoisodrimenin-3-ene, O-10055
Peniophoral, H-10203
Plicatin B, *in* D-10311
Virgauride, V-10026

- C₁₅H₁₈O₄**
 Dihydropergillin, *in* P-10079
 3,6-Dihydroxyfuranoteremophil-1(10)-en-9-one, D-10170
 2,3-Dihydroxy-4(15),10(14),11(13)-guaiatrien-12,6-olide, D-10174
 3,8-Dihydroxy-4(15),10(14),11(13)-guaiatrien-12,6-olide, D-10175
 Epixanthochroa coumarate, *in* X-10003
 3-[4-Hydroxy-3-(4-hydroxy-3-methyl-2-butenyl)phenyl]-2-propenoic acid; Me ester, *in* H-10163
 8-Hydroxy-3-oxo-4(15),10(14)-guaiadien-12,6-olide, *in* D-10175
 Plicatin A, *in* D-10311
 Schkuhriolide, *in* D-10172
 Xanthochroa coumarate, X-10003
- C₁₅H₁₈O₅**
 1,10:8,14-Diepoxy-14-hydroxy-4,11(13)-germacradien-12,6-olide, D-10079
 5,7-Dihydroxy-8-(3-hydroxy-3-methylbutyl)-2-methyl-4*H*-1-benzopyran-4-one, D-10181
 6,10-Dihydroxy-3-oxo-7(11),8-eremophiladien-12,8-olide, D-10218
 Tanaparthin α -peroxide, *in* E-10027
 Tanaparthin β -peroxide, *in* E-10027
- C₁₅H₁₈O₆**
 1,4-Epidioxy-9,10-dihydroxy-2,11(13)-guaiadien-12,6-olide, E-10027
 1,4-Epoxy-8,10,13-trihydroxy-1,5,7(11)-germacratien-12,6-olide, E-10159
 Glucuro lactone; Me glycoside, 5-benzyl, 2-Me, *in* G-10088
 Glucuro lactone; Me glycoside, 5-benzyl, 2-Me, *in* G-10088
 8,9,15-Trihydroxy-14-oxo-1(10),4,11(13)-germacratien-12,6-olide, T-10178
- C₁₅H₁₈O₇**
 2,3-Dehydroneomajucin, *in* M-10005
 1,10:4,5-Diepoxy-8,13,14-trihydroxy-2,7(11)-germacradien-12,6-olide, D-10088
- C₁₅H₁₈O₈**
 Bilobalide A, B-10023
- C₁₅H₂₀**
 β -Calacorene, C-10011
- C₁₅H₂₀N₂O**
 5-Dehydromultiflorine, *in* M-10092
 Dehydromultiflorine, *in* M-10092
- C₁₅H₂₀N₂O₂**
 Δ^5 -Dehydro-13-hydroxymultiflorine, *in* M-10092
N-Formylalbine, *in* A-10039
- C₁₅H₂₀N₂O₃**
 Sophorasine A, S-10080
 Sophorasine B, *in* S-10080
- C₁₅H₂₀N₂O₄**
 Epiderstatin, E-10025
- C₁₅H₂₀O**
 Porninsal, *in* D-10277
ar-Turmerone, B-10029
- C₁₅H₂₀O₂**
 Annulide, A-10093
 Caespenone, C-10009
 Chrysorrhodial, *in* C-10094
 Furanoteremophil-1(10)-en-3-ol, F-10032
 Furanoteremophil-1(10)-en-6-ol, F-10033
 3-Hydroxy-6,9,11-eremophilatrien-8-one, H-10132
 7-Hydroxy-3,11-eudesmadien-2-one, H-10142
 Isoannulide, *in* A-10093
 Lactaroscrobiculide A, L-10015
 8-Oxo- β -cyperone, E-10211
 Secoswartziianin A, S-10042
 3,4,5,6-Tetrahydro-2,6,9-trimethyl-2,6-methano-2*H*-1-benzoxocin-3-ol, T-10033
- C₁₅H₂₀O₃**
 1,10-Epoxyfuranoteremophilan-6-ol, E-10087
 2-(5-Ethenyltetrahydro-5-methyl-2-furanyl)-1-(4-methyl-2-furanyl)-1-propanone, E-10198
 Furanoteremophil-1(10)-ene-3,6-diol, F-10030
- Furanoteremophil-1(10)-ene-6,9-diol, F-10031
 1-Hydroxy-4(15),11(13)-eudesmadien-12,6-olide, H-10140
 2-Hydroxy-4(15),11(13)-eudesmadien-12,8-olide, H-10141
 6-Hydroxyfuranoteremophilan-9-one, H-10148
 1-Hydroxy-1(10),4,11(13)-germacratien-12,6-olide, H-10153
 4-Hydroxy-2,10(14)-guaiadien-12,6-olide, *in* H-10155
 12-Hydroxy-8-oxo- β -cyperone, H-10137
 7-Ketoisodrimenin, O-10056
 9-Oxocostic acid, *in* H-10139
 Subergorgic acid, O-10063
- C₁₅H₂₀O₄**
 Crotycol, C-10135
 1,10:4,5-Diepoxy-7(11)-germacren-12,8-olide, D-10078
 1,3-Dihydroxy-4(15),11(13)-eudesmadien-12,6-olide, D-10158
 1,8-Dihydroxy-3,11(13)-eudesmadien-12,6-olide, D-10159
 3,6-Dihydroxyfuranoteremophilan-9-one, D-10168
 4,6-Dihydroxyfuranoteremophilan-9-one, D-10169
 6,14-Dihydroxy-1(10),4,11(13)-germacratien-12,8-olide, D-10172
 4,10-Dihydroxy-1,11(13)-guaiadien-12,8-olide, D-10173
 1,10-Epoxyfuranoteremophilane-3,6-diol, E-10085
 1,10-Epoxyfuranoteremophilane-6,9-diol, E-10086
 6 α -Hydroxy-14-oxo-1(10)*E*,4*E*-germacradien-12,8 α -olide, *in* D-10172
- C₁₅H₂₀O₅**
 1,10:4,5-Diepoxy-8-hydroxy-7(11)-germacren-12,8-olide, D-10080
 8,10-Dihydroxy-1-oxo-2,11(13)-germacradien-12,6-olide, D-10220
 6,14,15-Trihydroxy-1(10),4,11(13)-germacratien-12,8-olide, T-10150
 4,6,9-Trihydroxy-1(10),2-guaiadien-12,8-olide, T-10151
- C₁₅H₂₀O₇**
 1,4-Epoxy-1,8,10,13-tetrahydroxy-5,7(11)-germacradien-12,6-olide, E-10151
 6,10-Epoxy-4,8,13-trihydroxy-1-oxo-7(11)-germacren-12,6-olide, E-10166
 Neomajucin, *in* M-10005
- C₁₅H₂₀O₈**
 5-Deoxyteuhircoside, *in* T-10079
 Majucin, M-10005
- C₁₅H₂₀O₉**
 Pleoside, *in* T-10129
 Teuhircoside, T-10079
- C₁₅H₂₁BrO₃**
 Aplysistatin, A-10109
- C₁₅H₂₁BrO₄**
 6 β -Hydroxyaplysistatin, *in* A-10109
- C₁₅H₂₁ClO**
 2-(3-Chloro-1,3-dimethylcyclohexyl)-5-methylphenol, C-10074
 2-(4-Chloro-1,3-dimethylcyclohexyl)-5-methylphenol, C-10075
 Perforenone B, *in* P-10078
- C₁₅H₂₂N₂O**
 Alkaloid LC2, A-10048
 Leontalbinine, L-10040
 Multiflorine, M-10092
- C₁₅H₂₂N₂O₂**
 Albertine, *in* L-10040
N-Formylangustifoline, *in* A-10087
 13-Hydroxymultiflorine, *in* M-10092
 Leontalbinine *N*-oxide, *in* L-10040
 Multiflorine *N*-oxide, *in* M-10092
- C₁₅H₂₂O**
 1(10)-Aristolen-2-one, A-10123
 β -Bisabolol, *in* B-10032
 7(14),9-Chamigradien-2-one, C-10065
- β -Cyperone, E-10212
 2,10-Dimethyl-6-methylene-2,7,9,11-dodecatetraen-1-ol, D-10277
 β -Elemenone, E-10011
 3,11-Eudesmadien-15-al, E-10209
 4,11-Eudesmadien-15-al, E-10210
 4(15),7(11)-Eudesmadien-8-one, E-10213
 4(15),11-Eudesmadien-8-one, E-10214
 Julaceal, B-10030
 2-Methyl-6-(4-methylphenyl)-4-heptanone, *in* B-10029
 Perforenone, P-10078
 β -Santalal, *in* S-10014
 3-Thujopsin-15-al, *in* T-10087
 β -Valerenal, *in* V-10001
- C₁₅H₂₂O₂**
 α -Bergamotenic acid, B-10015
 1,3,5,9-Bisabolatetraene-2,11-diol, B-10027
 1,3,5,11-Bisabolatetraene-2,10-diol, B-10028
 4-Cadinen-12,6-olide, C-10007
 Caespenone, C-10008
 3(15),6-Caryophylladien-14-oic acid, C-10027
 Chrysorrhial, C-10094
 Curcumadiene, X-10001
 1,10:7,10-Diepoxy-2,11-bisaboladiene, D-10064
 Drimenin, D-10310
 3,11-Eudesmadien-15-oic acid, *in* E-10209
 4,11-Eudesmadien-15-oic acid, *in* E-10210
 Furanopinguicidol, F-10035
 7,9-Guaiadien-14-oic acid, G-10130
 Hinokiic acid, T-10087
 1-Hydroxy-5,7(11)-eudesmadien-12-al, H-10136
 15-Hydroxy-4,11-muroladien-3-one, H-10191
 4-Hydroxy-2,8-neolemnadien-5-one, H-10192
 3-Hydroxy-1(10),11-spirovetivadien-2-one, H-10225
 Isocurcumadiene, X-10002
 Perforenone A, *in* P-10078
 Perforenone C, *in* P-10078
 Prehelminthosporolactone, *in* P-10142
 α -Santal-10-en-12-oic acid, S-10015
 β -Santalal, *in* S-10014
 Spartidienedione, S-10083
- C₁₅H₂₂O₃**
 Abscisic alcohol, A-10010
 11,13-Dihydrovalin, *in* H-10141
 Dihydroreynosin, *in* H-10140
 Dihydrotamulipin A, *in* H-10153
 1,3-Dihydroxy-9,11-eremophiladien-8-one, D-10151
 3,7-Dihydroxy-9,11-eremophiladien-8-one, D-10152
 3,12-Dihydroxy-9,11(13)-eremophiladien-8-one, D-10154
 10,12-Dihydroxy-3-longipinen-5-one, D-10191
 12,14-Dihydroxy-3(15)-longipinen-4-one, D-10192
 11-Epidihydroreynosin, *in* H-10140
 6,10-Epoxy-6-hydroxy-7-guaien-9-one, E-10109
 10,12-Epoxy-2,7-nardosinonedione, E-10130
 Furanoteremophilane-1,10-diol, F-10029
 Heliannol A, E-10034
 4-Hydroxy-11(13)-amophen-12,5-olide, H-10082
 8-Hydroxy-4-daucene-3,9-dione, H-10108
 7-Hydroxy-8-drimen-12,11-olide, H-10127
 9-Hydroxy-4,11-eudesmadien-15-oic acid, H-10138
 9-Hydroxy-4(15),11(13)-eudesmadien-12-oic acid, H-10139
 1-Hydroxy-4(15)-eudesmen-12,6-olide, H-10143
 3-Hydroxy-4-eudesmen-12,6-olide, H-10144
 1-Hydroxy-4(15)-eudesmen-12,6-olide; (1 α ,6 α ,11 β *H*)-form, *in* H-10143
 1-Hydroxy-9,11-germacradien-15,6-olide, H-10150
 3-Hydroxy-1(10),4-germacradien-12,6-olide, H-10151
 2-Hydroxy-1(10),11-guaiadien-15-oic acid, H-10154
 Nardofuran, N-10005
 Sambucocin, S-10009
 Secocarotanal, D-10295

C₁₅H₂₂O₄

- 3,11-Dihydroxy-7,9-eremophiladien-8-one, D-10153
 5,9-Dihydroxy-4(15),11(13)-eudesmadien-12-oic acid, D-10157
 1,6-Dihydroxy-1,10-seco-5(10),11(13)-eudesmadien-12,8-olide, D-10252
 1-Epiperivanin, *in* D-10158
 3-Epiperivanin, *in* D-10158
 Epirugosal D, *in* R-10059
 Erivanin, *in* D-10158
 8 α -Hydroxy-11 β ,13-dihydrobalchanin, *in* D-10159
 8 α -Hydroxysambucoin, *in* S-10009
 8 β -Hydroxysambucoin, *in* S-10009
 Rugosal D, R-10059
 8,10,12-Trihydroxy-3-longipinen-5-one, T-10158
 9,12,14-Trihydroxy-3(15)-longipinen-4-one, T-10159

C₁₅H₂₂O₅

- 4,5-Epoxy-6,13-dihydroxy-1(10)-germacren-12,8-olide, E-10066
 6,7-Epoxy-3,11,12-trihydroxy-9-eremophilen-8-one, E-10157
 Pseudomajucin, P-10162
 3,6,12,13-Tetrahydroxy-7(11),9-eremophiladien-8-one, T-10048
 6,8,15-Trihydroxy-1,3,11(13)-elematrien-12-oic acid, T-10145
 1,8,10-Trihydroxy-7(11)-eremophilen-12,8-olide, T-10146
 1,6,13-Trihydroxy-4,10(14)-germacradien-12,8-olide, T-10149

C₁₅H₂₂O₆

- 4,15-Epoxy-1,6,8-trihydroxy-11(13)-eudesmen-12-oic acid, E-10158
 1,4,6,9-Tetrahydroxy-11(13)-eudesmen-12,8-olide, T-10049
 2,8,10,11-Tetrahydroxy-3-guaien-12,6-olide, T-10053
 3,8,10-Trihydroxy-1-oxo-11(13)-germacren-12,6-olide, T-10179

C₁₅H₂₂O₈

- Antirride, A-10105
 1,4,5,8,10,13-Hexahydroxy-7(11)-muurolen-12,6-olide, H-10058
 Linariolide, L-10054

C₁₅H₂₂O₉

- 6 β -Hydroxyantirride, *in* A-10105
 Secolinariolide, S-10040

C₁₅H₂₃BrO₂

- Palisadin A, *in* A-10109

C₁₅H₂₃BrO₃

- 3,4-Epoxyalisadin A, *in* A-10109

C₁₅H₂₃Br₃O

- 12-Bromopalisadin B, *in* P-10003

C₁₅H₂₃NO₅

- N*-Methyltyramine *O*- α -L-rhamnopyranoside, *in* T-10212

C₁₅H₂₄

- 3,9-Acoradiene, A-10022
 10(14)-Aromadendrene, A-10125
 8,11-Daucadiene, D-10017
 Erythrodiene, E-10193
 α -Isocomene, I-10026
 β -Isocomene, I-10027
 Silphinene, S-10063
 Stachynene, S-10107

C₁₅H₂₄Br₂O

- 2,11-Dibromo-7(14)-chamigren-3-ol, D-10050
 Palisadin B, P-10003

C₁₅H₂₄Br₂O₂

- 12-Hydroxypalisadin B, *in* P-10003
 5 β -Hydroxypalisadin B, *in* P-10003

C₁₅H₂₄N₂O

- N*-Methylangustifoline, *in* A-10087

C₁₅H₂₄O

- β -Acoradienol, A-10024
 α -Agarofuran, A-10031

- β -Agarofuran, *in* A-10031
 Alloaromadendrene epoxide, *in* A-10125
 1(10)-Aristolen-12-ol, A-10122
 Aromadendrene epoxide, *in* A-10125
 3,5,10-Bisabolatrien-12-ol, B-10033
 β -Bisabolol, B-10032
 1(10),4-Cadinadien-8-ol, C-10003
 4,10(14)-Cadinadien-8-ol, C-10004
 4,11(13)-Cadinadien-12-ol, C-10005
 Dehydrosequisquiceneol, *in* S-10051
 Epiguadalupol, *in* P-10078
 1,8-Epoxy-4-cadinene, E-10035
 1(10),4,11-Germacratrien-9-ol, G-10027
 Guadalupol, *in* P-10078
 6,10(14)-Guaidiadien-4-ol, G-10131
 Isodaucenol, D-10018
 Isohumbertiol, I-10033
 4,10(14)-Muuroyadien-8 α -ol, *in* C-10004
 Oreodaphnenol, O-10044
 6,9,12-Pentadecatrien-2-one, P-10033
 8,11,13-Pentadecatrien-2-one, P-10034
 Rosaacorenil, A-10023
 Salsolene ketone, S-10004
 β -Santala-3(15),10-dien-12-ol, S-10014
 Sesquiphellandren-7-ol, B-10031
 Stachynone, S-10108
 4(15),7(11)-Valerenadien-12-ol, V-10001

C₁₅H₂₄O₂

- α -Agarofuran; 3 α ,4 α -Epoxide, *in* A-10031
 α -Agarofuran; 3 β ,4 β -Epoxide, *in* A-10031
 α -Bisabololone, H-10090
 3(15)-Caryophyllen-14-oic acid, *in* C-10027
 Dehydrobaimuxinol, *in* H-10110
 Dihydro- α -santalal acid, *in* S-10015
 11,12-Drimanedial, D-10308
 Drimeninol, *in* D-10310
 3,7-Epoxy-1,10-bisaboladien-12-ol, E-10032
 6,7-Epoxy-3(15)-caryophyllen-14-ol, *in* C-10027
 11,12-Epoxy-8(12)-drimen-11-ol, E-10076
 5,8-Epoxy-9-guaien-8-ol, E-10093
 6,7-Epoxy-10(14)-guaien-4-ol, E-10094
 12,13-Epoxy-9,10-trichodien-11-ol, *in* I-10056
 9-Humulene-2,6-dione, H-10073
 2-Hydroxy-3(15)-bicyclohumulen-6-one, H-10089
 8-Hydroxy-11-eremophilen-2-one, H-10133
 8-Hydroxy-10(14)-oplopen-4-one, H-10199
 9-Hydroxy-10(14)-oplopen-4-one, H-10200
 Isodrimeninol, *in* D-10310
 Prehelminthosporol, P-10142

C₁₅H₂₄O₃

- Agerol diepoxide, *in* G-10027
 Baimuxifuranic acid, *in* H-10110
 2-Deoxy-11-epi-3 α -hydroxysambucoin, *in* S-10009
 4,6-Dihydroxy-7-daucen-9-one, D-10131
 4,6-Dihydroxy-8-daucen-10-one, D-10132
 8 α ,9 α -Dihydroxy-10 β H-eremophil-11-en-2-one, *in* E-10170
 3,11-Dihydroxy-3-eudesmen-2-one, D-10160
 3,11-Dihydroxy-6-eudesmen-8-one, D-10161
 9,10-Dihydroxy-5-longipinanone, D-10190
 7,11-Dihydroxy-1(10)-nardosinen-9-one, D-10202
 8-Hydroxy-12,11-drimanolide, H-10125
 11-Hydroxy-8(12)-drimen-13-oic acid, H-10126
 9-Hydroxyprehelminthosporol, *in* P-10142
 Isotrighodiol, I-10056
 Prehelminthosporal, *in* P-10142
 Sulcatine G, S-10128
 Trichodiol, *in* T-10112

C₁₅H₂₄O₄

- 7,10-Dihydroxy-2,11-bisaboladien-15-oic acid, D-10119
 7,11-Dihydroxy-2,9-bisaboladien-15-oic acid, D-10120
 3,8-Dihydroxy-12,11-drimanolide, D-10143
 3,11-Dihydroxy-8(12)-drimen-13-oic acid, D-10144
 2,4-Dihydroxy-12,8-pseudoguaianolide, D-10251
 5,6-Epoxy-4(15)-eudesmene-3,7,11-triol, E-10082
 8 α -Hydroxyisotrighodiol, *in* I-10056

- 3-Hydroxy-9-oxo-1-bisabolol-15-oic acid, H-10204
 8-Hydroxy-9-oxo-2-bisabolol-15-oic acid, H-10205
 Parathyliol, P-10011
 Trichotirol, T-10112

C₁₅H₂₄O₄S

- Sulfoorientalol C, S-10131

C₁₅H₂₄O₁₃

- 4-*O*- α -D-Galactopyranuronosyl-D-galacturonic acid; Me glycoside, 6,6'-di-Me ester, *in* G-10015

C₁₅H₂₅BrO

- 7-Acetyl-4-bromo-1-isopropyl-3 α -methylindane, A-10015

C₁₅H₂₅Cl

- 6-Chloro-4(15)-eudesmene, C-10079

C₁₅H₂₅NO₄

- Amabilin†, A-10052
 ▶ Cynaustine, *in* A-10052
 ▶ Supinine, *in* A-10052

C₁₅H₂₅NO₅

- Amabiline *N*-oxide, *in* A-10052
 Tessellatine, T-10020

C₁₅H₂₆O

- Dihydroagarofuran, *in* A-10031
cis-Dihydroagarofuran, *in* A-10031
 4(15)-Eremophilen-11-ol, E-10171
 Ginsenol, G-10035
 Isonaviculol, I-10038
 1(10)-Lepidozen-5-ol, L-10041
 Peculiaroxide, P-10023
 6,9-Pentadecadien-2-one, P-10030
 8,11-Pentadecadien-2-one, P-10031
 8,13-Pentadecadien-2-one, P-10032
 Sesquiceneol, S-10051

C₁₅H₂₆O₂

- 1,10-Bisaboladiene-3,12-diol, B-10026
 3,15-Cedranediol, C-10042
 8-Daucene-4,6-diol, D-10019
 11,12-Epoxy-11-drimanol, E-10075
 4,7-Epoxy-11-eremophilanol, E-10080
 6,7-Epoxy-2-humulene-1-ol, E-10097
 1(10)-Eremophilen-8,11-diol, E-10168
 4(15)-Eudesmene-2,11-diol, E-10218
 11-Eudesmene-2,4-diol, E-10219
 11-Eudesmene-4,7-diol, E-10220
 10(14)-Guaiene-4,6-diol, G-10134
 10(14)-Guaiene-4,11-diol, G-10135
 7-Hydroxy-6,11-cyclofarnes-3(15)-en-2-one, H-10106
 4 α -Hydroxydihydroagarofuran, *in* A-10031
 15-Hydroxydihydro- β -agarofuran, H-10110
 Seircardine B, S-10044
 Seircardine C, *in* S-10044
 Tedonodiol, E-10169
 1,2,12,13-Tetrahydro-3-hydroxy-2-oxobergamotene, T-10030
 3,7,11-Trimethyl-2,6,10-dodecatriene-1,9-diol, T-10198

C₁₅H₂₆O₃

- 8-Daucene-4,6,10-triol, D-10020
 9-Daucene-4,6,8-triol, D-10021
 9,10-Dihydroxy-4-oplopanone, D-10215
 7-Drimenone-3,5,11-triol, D-10309
 11-Eremophilen-2,8,9-triol, E-10170
 4(15)-Eudesmene-2,3,11-triol, E-10222
 5,10(14)-Germacradiene-1,4,8-triol, G-10026
 6-Guaiene-4,10,14-triol, G-10136
 4-Muurole-1,10,11-triol, M-10094
 Salvinin†, D-10142

C₁₅H₂₆O₄

- Celorbicol, *in* T-10139
 7-Hydroperoxy-8-eudesmene-1,4-diol, H-10078
 7-Hydroxymethyl-3,11-dimethyl-2,6,9-dodecatriene-1,5,11-triol, H-10183
 7-Hydroxymethyl-3,11-dimethyl-2,6,11-dodecatriene-1,5,10-triol, H-10184

- 1,2,9-Trihydroxydihydro- β -agarofuran, T-10138
1,6,9-Trihydroxydihydro- β -agarofuran, T-10139
- C₁₅H₂₆O₄S**
Sulfoorientalol A, S-10129
- C₁₅H₂₆O₅**
4-Eudesmene-3,6,7,11,15-pentol, E-10221
Malkanguniol, *in* T-10043
4,6,8,9-Tetrahydroxy-7-daucanone, T-10041
1,6,8,9-Tetrahydroxydihydro- β -agarofuran, T-10042
1,8,9,14-Tetrahydroxydihydro- β -agarofuran, T-10043
- C₁₅H₂₆O₅S**
Sulfoorientalol B, S-10130
Sulfoorientalol D, S-10132
- C₁₅H₂₆O₆**
1,2,4,6,9-Pentahydroxydihydro- β -agarofuran, P-10045
1,2,6,8,9-Pentahydroxydihydro- β -agarofuran, P-10046
1,4,6,8,14-Pentahydroxydihydro- β -agarofuran, P-10047
- C₁₅H₂₆O₇**
1,4,6,8,9,14-Hexahydroxydihydro- β -agarofuran, H-10054
- C₁₅H₂₆O₈**
1,2,4,6,8,9,14-Heptahydroxydihydro- β -agarofuran, H-10025
- C₁₅H₂₆O₁₀**
1,2,3,4,6,8,9,13,14-Nonahydroxydihydro- β -agarofuran, N-10039
- C₁₅H₂₈**
Eudesmane, E-10215
- C₁₅H₂₈O**
Artemisinol, C-10006
- C₁₅H₂₈O₂**
3,11-Eudesmanediol, E-10216
4,11-Eudesmanediol, E-10217
- C₁₅H₂₈O₃**
4,6,10-Guaianetriol, G-10133
- C₁₅H₂₈O₄**
Undecanedioic acid; Di-Et ester, *in* U-10006
- C₁₅H₂₈O₅**
3,4,10,11,14-Guaianepentol, G-10132
- C₁₅H₃₀O₂**
Tridecanoic acid; Et ester, *in* T-10119
- C₁₅H₃₇N₅**
N'-(4-Aminobutyl)canavalmine, *in* C-10018
- C₁₆H₁₀O₆**
5,7-Dihydroxy-3',4'-methylenedioxyflavone, *in* T-10052
- C₁₆H₁₁NO₃**
Piperolactam A, P-10121
- C₁₆H₁₂Cl₂O₅**
2,4-Dichloro-3,6-di-O-methylnorlichexanthone, *in* D-10059
- C₁₆H₁₂O₄**
Cryptochrysin, D-10201
2'-Hydroxy-7-methoxyflavone, *in* D-10164
8-Hydroxy-7-methoxyflavone, *in* D-10165
Pallidiflorin, *in* D-10183
- C₁₆H₁₂O₅**
Damnacanthol, *in* D-10180
1,3-Dihydroxy-8-methoxy-2-methylanthraquinone, *in* T-10161
1,5-Dihydroxy-2-methoxy-6-methylanthraquinone, *in* T-10160
Genkwanin, D-10195
Morindone 5-methyl ether, *in* T-10160
Phyllozutin, *in* D-10237
- C₁₆H₁₂O₆**
1,6-Dihydroxy-2,4-dimethoxyanthraquinone, *in* T-10037
- 5,7-Dihydroxy-2-(4-methoxyphenoxy)-4H-1-benzopyran-4-one, *in* T-10132
Juzunol, *in* T-10152
- C₁₆H₁₂O₇**
1,2-Epoxy-8-hydroxy-6-(hydroxymethyl)-1-methoxycarbonylanthone, E-10110
- C₁₆H₁₂O₈**
2,4,5,6,7-Pentahydroxy-1-methoxy-3-methylanthraquinone, *in* H-10057
- C₁₆H₁₄O₂**
4-Methoxychalcone, *in* H-10218
- C₁₆H₁₄O₅**
Cassiapyrone, C-10030
3'-Deoxysappanone B, D-10178
Sabilactone, S-10001
- C₁₆H₁₄O₆**
Anthaxanthone, *in* T-10073
Decussatine, *in* T-10073
Dihydrocajanin, *in* T-10055
Ferreirin, *in* T-10055
Isoferreirin, *in* T-10055
3-O-Methylkanin, *in* P-10040
4-O-Methylkanin, *in* P-10040
Perforatic acid, P-10077
Sappanone B, D-10113
Scutamoenin, *in* T-10050
2',6',7'-Trihydroxy-5-methoxyflavanone, *in* T-10050
- C₁₆H₁₄O₇**
Dihydroisorhamnetin, *in* P-10050
Hultenin, *in* P-10050
Padmatin, *in* P-10050
3,3',5',7'-Tetrahydroxy-4'-methoxyflavanone, *in* P-10050
3,4',5',7'-Tetrahydroxy-6-methoxyflavanone, *in* P-10051
- C₁₆H₁₄O₈S**
Cassiapyrone 10-sulfate, *in* C-10030
- C₁₆H₁₅BrN₂O**
Eudistalbin B, E-10224
- C₁₆H₁₅NO₄**
Asimicilone, A-10131
- C₁₆H₁₅NO₅**
5-Hydroxyarborinine, *in* T-10036
- C₁₆H₁₅NO₆**
Citramine, *in* P-10038
2,3-Dimethoxy-1,5,6-trihydroxy-10-methylacridone, *in* P-10038
- C₁₆H₁₆N₂O₂**
Paspalic acid, P-10013
- C₁₆H₁₆O₄**
8-Acetoxy-2-(2,4-hexadiynylidene)-1,6-dioxaspiro[4.5]dec-3-ene, *in* H-10049
- C₁₆H₁₆O₅**
3-(4-Hydroxybenzyl)-3,4,7-chromantriol, H-10086
Torosachryson, *in* D-10102
3',4',7'-Trihydroxy-2'-methoxyisoflavan, *in* T-10054
- C₁₆H₁₆O₆**
3-(3,4-Dihydroxybenzyl)-3,4,7-chromantriol, D-10112
 α ,3,4,4'-Tetrahydroxy-2'-methoxydihydrochalcone, *in* D-10233
- C₁₆H₁₇BrN₂**
Arborescidine B, *in* A-10114
- C₁₆H₁₇Br₂N₅O₄**
Aplysinamisine I, A-10107
- C₁₆H₁₇NO₃**
Neoacutifolin, N-10011
- C₁₆H₁₇NO₄**
Obesine, O-10002
- C₁₆H₁₇N₃O₂**
3-Ethylidene-6-(1H-indol-3-ylmethyl)-1-methyl-2,5-piperazinedione, E-10203
- 10-Hydroxy-*cis*-paspalic acid amide, *in* P-10013
10-Hydroxy-*trans*-paspalic acid amide, *in* P-10013
- C₁₆H₁₈BrN₃**
Eudistalbin A, E-10223
- C₁₆H₁₈O₄**
Gossyvertin, *in* T-10133
- C₁₆H₁₈O₈**
Gerberinside, *in* H-10176
- C₁₆H₁₉BrN₂O**
Arborescidine C, A-10114
Arborescidine D, *in* A-10114
- C₁₆H₁₉NO₂**
Coclafine, *in* C-10111
- C₁₆H₁₉NO₄**
Acutifolidin, *in* A-10026
Amabilin†, A-10051
- C₁₆H₂₀N₂O**
Huperzine B, H-10075
- C₁₆H₂₀O**
3-Methoxycadalene, *in* C-10002
- C₁₆H₂₀O₄**
3-[4-Hydroxy-3-(4-hydroxy-3-methyl-2-butenyl)phenyl]-2-propenoic acid; 4'-Me ether, Me ester, *in* H-10163
- C₁₆H₂₂N₂O₄**
Metacyclofilin, M-10037
- C₁₆H₂₂N₄O₂**
Aurantiamine, A-10143
- C₁₆H₂₂O**
Sporochinol A, *in* S-10105
- C₁₆H₂₂O₂**
Sporochinol C, S-10105
- C₁₆H₂₂O₃**
Sporochinol B, *in* S-10105
- C₁₆H₂₂O₆**
p-Mentha-1,3,5-triene-2,5,8,9,10-pentol; 9-Tigloyl, 2-Me ether, *in* M-10030
- C₁₆H₂₂O₈**
Citrusin D, *in* D-10243
Coniferin, *in* D-10243
Faguside, *in* D-10243
- C₁₆H₂₂O₉**
2-Methyl-1-(2,4,6-trihydroxyphenyl)-1-propanone; 2-O- β -Glucopyranoside, *in* M-10077
Sweroside, S-10135
- C₁₆H₂₂O₁₀**
Gardoside, G-10020
Swertiamarin, S-10136
- C₁₆H₂₂O₁₁**
8-Epikingsidic acid, *in* K-10012
Kingsidic acid, *in* K-10012
- C₁₆H₂₃Br₂N₅O₄**
Aplysinamisine II, A-10108
- C₁₆H₂₃NO**
Cavernoisnitrile, C-10039
- C₁₆H₂₄N₂O₂**
13-Methoxymultiflorine, *in* M-10092
- C₁₆H₂₄N₂O₃**
Angustifoline *N*-carboxymethyl ester, *in* A-10087
- C₁₆H₂₄O**
Contrunculin A, C-10122
- C₁₆H₂₄O₂**
Contrunculin B, C-10123
5-Pentyl-2-prenyl-1,3-benzenediol, P-10073
- C₁₆H₂₄O₃**
Noraficanone, N-10041
Secoswartzianin B, S-10043

- C₁₆H₂₄O₅**
Chiliophyllin, *in* T-10149
Heimerlein, *in* E-10066
6,8,15-Trihydroxy-1,3,11(13)-elematrien-12-oic acid; Me ester, *in* T-10145
3,5,10-Trihydroxy-10-methyl-6,7-megastigmadien-9-one; 5-Ac, *in* T-10163
- C₁₆H₂₄O₆**
Thymol; *O*-β-D-Glucopyranoside, *in* I-10048
- C₁₆H₂₄O₇**
Prostaglandin E-M, *in* P-10154
- C₁₆H₂₄O₈**
Boschnaloside, B-10039
- C₁₆H₂₄O₉**
Aldoxoside, A-10040
1-Deglucosylpenstemonosidic acid glucoside, D-10027
6-Hydroxyboschnaloside, H-10091
- C₁₆H₂₄O₁₀**
Eleutheroside C; Tetra-*O*-Ac, *in* E-10200
Loganic acid, L-10059
- C₁₆H₂₄O₁₁**
Shanzhiside, S-10057
- C₁₆H₂₅N**
10-Isocyano-4-amorphene, I-10030
- C₁₆H₂₅NS**
Cavernothiocyanate, C-10040
6-Isothiocyanato-4(15)-eudesmene, I-10054
12-Isothiocyanato-5-eudesmene, I-10055
- C₁₆H₂₆Cl₂O₂**
Jaeschkenol, J-10001
- C₁₆H₂₆O₂**
Sollasin A, S-10073
- C₁₆H₂₆O₄**
Bisaborosol E, *in* D-10119
Bisaborosol F, *in* D-10120
4,5-Dioxo-2-hexadecenoic acid, D-10293
3-Hydroxy-9-oxo-1-bisabolene-15-oic acid; Me ester, *in* H-10204
8-Hydroxy-9-oxo-2-bisabolene-15-oic acid; Me ester, *in* H-10205
- C₁₆H₂₆O₇**
Prostaglandin F-M, P-10154
- C₁₆H₂₆O₉**
5,8-Dihydroxy-2,6-dimethyl-2,6-octadienoic acid; β-D-Glucopyranosyl ester, *in* D-10135
- C₁₆H₂₆O₁₅**
α-D-Glucopyranuronosyl-(1→2)-β-D-xylopyranosyl-(1→4)-D-xylose, G-10084
α-D-Glucopyranuronosyl-(1→4)-β-D-xylopyranosyl-(1→4)-D-xylose, G-10085
- C₁₆H₂₇NO**
Acanthene C, *in* I-10054
- C₁₆H₂₇NO₄**
▶ Heleurine, H-10007
- C₁₆H₂₇NO₅**
Heleurine *N*-oxide, *in* H-10007
- C₁₆H₂₈N₂O**
10-Hydroxymethylsparteine, H-10190
- C₁₆H₂₈N₂O₂**
Phygrine, P-10104
- C₁₆H₂₈N₂O₃**
Termisine, T-10018
- C₁₆H₂₈O₂**
4,9-Hexadecadienoic acid, H-10038
- C₁₆H₂₈O₃**
4-Methoxy-5,10(14)-germacradiene-1,8-diol, *in* G-10026
- C₁₆H₂₈O₆**
Linalool; 3-*O*-β-D-Glucopyranoside, *in* D-10279
- C₁₆H₂₈O₇**
Rosiridin, *in* D-10278
- C₁₆H₂₈O₁₄**
α-D-Xylopyranosyl-(1→4)-α-D-xylopyranosyl-(1→6)-D-glucose, X-10013
- C₁₆H₂₉NO**
Herculin, *in* D-10301
- C₁₆H₃₀O₄**
1,12-Dodecanediol; Di-Ac, *in* D-10302
- C₁₆H₃₂O₃**
11-Hydroxyhexadecanoic acid, H-10160
- C₁₆H₃₂O₄**
3,12-Dihydroxyhexadecanoic acid, D-10176
- C₁₆H₃₄N₂O₂**
Nitrosoxacin A, N-10030
Nitrosoxacin B, N-10031
- C₁₇H₁₀O₄**
7-Hydroxy-2-phenyl-4*H*-furo[2,3-*f*][1]benzopyran-9-one, H-10216
2-(2-Hydroxyphenyl)-4*H*-furo[2,3-*h*]-1-benzopyran-4-one, H-10217
- C₁₇H₁₀O₆**
2-(3,4-Dihydroxyphenyl)-5-hydroxy-4*H*-furo[2,3-*h*]-1-benzopyran-4-one, D-10238
- C₁₇H₁₂O₄**
Hymecromone; Benzoyl, *in* H-10177
- C₁₇H₁₂O₅**
5'-Acetoxy-2'-hydroxyflavone, *in* D-10163
- C₁₇H₁₃NO₃**
Aristolactam BII, A-10121
N-Methylpiperolactam A, *in* P-10121
- C₁₇H₁₃NO₄**
Piperolactam B, *in* A-10121
Piperolactam D, *in* P-10121
Velutinam, *in* A-10121
- C₁₇H₁₄Cl₂O₅**
2,4-Dichloro-1,3,6-trimethoxy-8-methylxanthone, *in* D-10059
- C₁₇H₁₄O₃**
3-(4-Hydroxyphenyl)-1-phenyl-2-propen-1-one; Ac, *in* H-10218
- C₁₇H₁₄O₄**
2',5'-Dimethoxyflavone, *in* D-10163
2',7'-Dimethoxyflavone, *in* D-10164
7,8-Dimethoxyflavone, *in* D-10165
4',5'-Dimethoxyisoflavone, *in* D-10183
- C₁₇H₁₄O₅**
1-Hydroxy-3,8-dimethoxy-2-methylanthraquinone, *in* T-10161
1-Hydroxy-5,6-dimethoxy-2-methylanthraquinone, *in* T-10160
3-Hydroxy-1-methoxy-2-(methoxymethyl)anthraquinone, *in* D-10180
▶ Ibericin, *in* D-10180
Specionin[†], S-10084
1,2,6-Trimethoxyanthraquinone, *in* T-10131
- C₁₇H₁₄O₆**
3',7'-Dihydroxy-4',5'-dimethoxyflavone, *in* T-10052
- C₁₇H₁₄O₇**
Hildecarpin, *in* P-10062
2-Hydroxyypisatin, *in* P-10062
Tricin, T-10140
4',5,5'-Trihydroxy-2',6'-dimethoxyflavone, *in* P-10055
- C₁₇H₁₄O₈**
3-*O*-Acetyltafoxilin, *in* P-10050
Barbatolin, B-10006
- C₁₇H₁₄O₉**
3,3',5,5',7-Pentahydroxy-4',6'-dimethoxyflavone, *in* H-10026
3',4',5,5',7-Pentahydroxy-3,6'-dimethoxyflavone, *in* H-10026
- C₁₇H₁₅NO₂**
3-(3,5-Hexadiynyl)-*N*-(2-phenylethyl)oxiranecarboxamide, *in* E-10131
- C₁₇H₁₆**
1,5-Diphenyl-1,4-pentadiene, D-10296
- C₁₇H₁₆NO₂[⊕]**
Vasconine, V-10016
- C₁₇H₁₆O₄**
4-(5-Formyl-3-methyl-2,4-pentadienyl)-5-methylcoumarin, *in* H-10176
Lubanol benzoate, *in* D-10243
- C₁₇H₁₆O₅**
4,5,7-Trihydroxy-8-formyl-6-methylflavan, T-10148
- C₁₇H₁₆O₆**
Cajanol, *in* T-10055
4',7'-Dihydroxy-2',5'-dimethoxyisoflavanone, *in* T-10055
Homoferrerin, *in* T-10055
1,2,6,8-Tetramethoxyxanthone, *in* T-10073
- C₁₇H₁₆O₇**
Alectorialin, A-10041
3,3',5-Trihydroxy-4',7'-dimethoxyflavanone, *in* P-10050
3,4',5-Trihydroxy-3',7'-dimethoxyflavanone, *in* P-10050
- C₁₇H₁₇NO**
N-2-Phenylethylcinnamide, P-10098
- C₁₇H₁₇NO₂**
Asimilobine, A-10132
3-(3,5-Hexadiynyl)-*N*-(2-phenylethyl)oxiranecarboxamide, *in* E-10131
- C₁₇H₁₇NO₃**
N-p-Coumaroyltyramine, *in* T-10212
Paprazine, *in* F-10006
- C₁₇H₁₇NO₅**
5-Methoxyarborinone, *in* T-10036
- C₁₇H₁₇NO₆**
Atalafoline, *in* P-10038
▶ Cuspanine, *in* P-10038
1,6-Dihydroxy-2,3,5-trimethoxy-10-methylacridone, *in* P-10038
- C₁₇H₁₈NO₂P**
2-[(Dibenzoyloxyphosphinyl)oxy]-2-propenoamide, *in* P-10102
- C₁₇H₁₈O₂**
Thymol; Benzoyl, *in* I-10048
- C₁₇H₁₈O₄**
3-Hydroxy-5,7-dimethoxyflavan, *in* T-10147
- C₁₇H₁₈O₅**
3'-Deoxy-4-*O*-methylsappanol, *in* H-10086
Isomucronulatol, *in* T-10054
Litsealactone, *in* E-10108
Sphaerosin, *in* T-10054
- C₁₇H₁₈O₆**
Goniodiol diacetate, *in* G-10109
Litseaculane, *in* E-10108
3'-*O*-Methylepisappanol, *in* D-10112
4-*O*-Methylepisappanol, *in* D-10112
3'-*O*-Methylsappanol, *in* D-10112
4-*O*-Methylsappanol, *in* D-10112
Zeylanicine, *in* E-10108
Zeylaninone, *in* H-10152
- C₁₇H₁₈O₇**
Acutotrinol, *in* D-10171
Zeylanidine, *in* E-10108
- C₁₇H₁₉NO**
3-Phenyl-*N*-(2-phenylethyl)propanamide, *in* P-10098
- C₁₇H₁₉NO₄**
9-Demethylhomolycorine, *in* H-10069
- C₁₇H₁₉NO₅**
9-Demethylhomolycorine α-*N*-oxide, *in* H-10069
5α-Hydroxy-10-*O*-demethylhomolycorine, *in* H-10069
- C₁₇H₂₀O₄**
Angeloylsenkyunolide F, *in* L-10052
6-Hydroxyliquisanolide; Ac, *in* H-10131

- C₁₇H₂₀O₅**
8 α -Acetoxyzaluzanin C, *in* D-10175
3-[4-Hydroxy-3-(4-hydroxy-3-methyl-2-butenyl)phenyl]-2-propenoic acid; 4'-Ac, Me ester, *in* H-10163
Kandavanolide, *in* D-10175
Oxaspirol B, *in* O-10051
- C₁₇H₂₀O₆**
 α -Epoxydulalbin, *in* D-10159
6,14,15-Trihydroxy-1(10),4,11(13)-germacatrien-12,8-olide; 14-Aldehyde, 15-Ac, *in* T-10150
- C₁₇H₂₀O₇**
Apressin, *in* E-10027
Isoapressin, *in* E-10027
Lecocarpinolide E, *in* T-10178
- C₁₇H₂₁NO₂**
Cocculine, C-10111
- C₁₇H₂₁NO₄**
Acutifolin, A-10026
6,7-Epoxytitorine, *in* L-10056
- C₁₇H₂₁NO₅**
8,9-Dimethoxygeibalansine, D-10266
- C₁₇H₂₂N₂O**
N-Methylhuperzine B, *in* H-10075
- C₁₇H₂₂O**
1,9-Heptadecadiene-4,6-diyn-3-one, H-10018
1,9,16-Heptadecatriene-4,6-diyn-3-ol, H-10022
- C₁₇H₂₂O₂**
Ginsenyne A, *in* H-10022
1,8,10-Heptadecatriene-4,6-diyn-3,12-diol, H-10021
- C₁₇H₂₂O₃**
13-Hydroxy-8,11,13-podocarpatrien-18-oic acid, H-10220
- C₁₇H₂₂O₄**
Dihydrodecompositin, *in* H-10148
7,13-Dioxo-8(14)-podocarpin-18-oic acid, D-10294
1,10-Epoxyfuranoeremophilan-6-ol; 6-Ac, *in* E-10087
6-Hydroxyfuranoeremophilan-9-one; Ac, *in* H-10148
- C₁₇H₂₂O₅**
Isoludalbin, *in* D-10159
 α -Liriodenolide, *in* D-10159
Ludalbin, *in* D-10159
Oxaspirol A, O-10051
Oxaspirol C, *in* O-10051
Perforatin B, *in* D-10181
Soulangianolide B, *in* D-10172
- C₁₇H₂₂O₈**
Pediglusoside, *in* H-10223
Piptocarphin D, *in* E-10151
Piptocarphol; 8-Ac, *in* E-10151
- C₁₇H₂₃NO₃**
Littorine, L-10056
- C₁₇H₂₄O**
9,16-Heptadecadiene-4,6-diyn-3-ol, H-10017
- C₁₇H₂₄O₃**
4-Hydroxy-2,8-neolemnadien-5-one; Ac, *in* H-10192
13-Oxo-8(14)-podocarpin-18-oic acid, O-10060
- C₁₇H₂₄O₄**
2,4-Dihydroxy-6-pentyl-3-prenylbenzoic acid, D-10225
9-Hydroxy-4(15),11(13)-eudesmadien-12-oic acid; Ac, *in* H-10139
- C₁₇H₂₄O₅**
9-Acetoxy-5-hydroxy-4(15),11(13)-eudesmadien-12-oic acid, *in* D-10157
1-Acetylerivanin, *in* D-10158
Britannilactone; 1-Ac, *in* D-10252
- C₁₇H₂₄O₉**
Syringin, *in* S-10065
Tangshenoside II, *in* T-10183
- C₁₇H₂₄O₁₀**
Dehydrologanin, *in* L-10059
Genistifolin, G-10024
- C₁₇H₂₄O₁₁**
Kingside, K-10012
- C₁₇H₂₅BrO₄**
5 β -Acetoxypalisadin A, *in* A-10109
- C₁₇H₂₅ClO₂**
Panaxydol chlorohydrin, C-10080
- C₁₇H₂₅NO₆**
Croaegyptine, C-10132
- C₁₇H₂₅NO₇S**
9-[(2-Amino-2-carboxyethyl)thio]-10-hydroxy-3,5,7-tetradecatrienedioic acid, A-10059
- C₁₇H₂₅N₅O₇**
Benarthin, *in* A-10117
- C₁₇H₂₆Br₂O₃**
5 β -Acetoxypalisadin B, *in* P-10003
- C₁₇H₂₆N₂O₃**
Angustifoline N-carboxyethyl ester, *in* A-10087
- C₁₇H₂₆O₂**
12-Acetoxy-4,11(13)-cadinadiene, *in* C-10005
1(10)-Aristolen-12-ol; Ac, *in* A-10122
3,5,10-Bisabolatrien-12-ol; Ac, *in* B-10033
6,10(14)-Guaiadien-4-ol; Ac, *in* G-10131
8-Heptadecene-4,6-diyn-3,10-diol, H-10023
3-Methoxy-5-pentyl-2-prenylphenol, *in* P-10073
- C₁₇H₂₆O₃**
3,7-Epoxy-1,10-bisaboladien-12-ol; Ac, *in* E-10032
Panaxytriol, H-10024
Quiesone, *in* H-10173
- C₁₇H₂₆O₄**
Sambucain; 2-Deoxy, 11-epimer, 3 α -hydroxy, 12-Ac, *in* S-10009
- C₁₇H₂₆O₉**
7-Deoxyloganin, *in* L-10059
- C₁₇H₂₆O₁₀**
Loganin, *in* L-10059
Secologanol, S-10041
- C₁₇H₂₆O₁₁**
Shanzhiside; Me ester, *in* S-10057
- C₁₇H₂₈O₃**
15-Acetoxy-6S,7S-epoxy-2Z-humulene, *in* E-10097
1,10-Bisaboladiene-3,12-diol; 12-Ac, *in* B-10026
1,10-Bisaboladiene-3,12-diol; 3-Epimer, 12-Ac, *in* B-10026
11,12-Epoxy-11-drimanol; Ac, *in* E-10075
12-Hydroxy-5,8,10-heptadecatrienoic acid, H-10159
Pleocarpenene; 11-Ac, *in* G-10135
3,7,11-Trimethyl-2,6,10-dodecatriene-1,9-diol; 1-Ac, *in* T-10198
- C₁₇H₂₈O₄**
10-Deoxymethynolide, *in* M-10079
- C₁₇H₂₈O₅**
Methynolide, *in* M-10079
- C₁₇H₂₈O₁₅**
4-O-Methyl- α -D-glucopyranosyl-(1 \rightarrow 2)- β -D-xylopyranosyl-(1 \rightarrow 4)-D-xylose, *in* G-10084
- C₁₇H₃₀**
3,6,9-Heptadecatriene, H-10020
- C₁₇H₃₀O**
6,7-Epoxy-3,9-heptadecadiene, *in* H-10020
Matsuone, T-10076
- C₁₇H₃₀O₁₁**
3-O- α -D-Glucopyranuronosyl-D-xylose; Hexa-Me, *in* G-10086
- C₁₇H₃₀O₁₅**
 β -D-Arabinopyranosyl-(1 \rightarrow 2)- α -D-mannopyranosyl-(1 \rightarrow 2)-D-glucose, A-10110
- α -D-Xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-(1 \rightarrow 4)-D-glucose, X-10011
 β -D-Xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-(1 \rightarrow 4)-D-glucose, X-10012
- C₁₇H₃₂**
6,9-Heptadecadiene, H-10016
- C₁₇H₃₂O₁₅**
Ribitol; 3,4-Di-O- α -D-glucopyranoside, *in* R-10032
- C₁₇H₃₃N**
Heptadecanoic acid; Nitrile, *in* H-10019
- C₁₇H₃₄O₂**
 \triangleright Heptadecanoic acid, H-10019
4-Methylhexadecanoic acid, M-10061
- C₁₇H₃₄O₃**
11-Hydroxyhexadecanoic acid; Me ester, *in* H-10160
- C₁₇H₃₄O₄**
3,12-Dihydroxyhexadecanoic acid; Me ester, *in* D-10176
- C₁₇H₃₅NO**
Heptadecanoic acid; Amide, *in* H-10019
4-Methylhexadecanoic acid; Amide, *in* M-10061
- C₁₈H₁₂ClNO₄**
7-Chloro-6-demethylcepharadione B, *in* C-10063
- C₁₈H₁₂Cl₂O₇**
Chlorophyllopsorin, *in* P-10106
- C₁₈H₁₂O₃**
6,8-Dihydroxy-4-methyl-7H-benz[de]anthracen-7-one, D-10198
- C₁₈H₁₂O₄**
2'-Methoxyfuran[2'',3'':7,8]flavone, *in* H-10217
7-Methoxy-2-phenyl-4H-furo[2,3-f][1]benzopyran-9-one, *in* H-10216
- C₁₈H₁₂O₇**
1,2,4,7,8-Pentahydroxy-3-(4-hydroxyphenyl)dibenzofuran, P-10056
Salvianolic acid G, S-10005
- C₁₈H₁₂O₉**
 \triangleright Norstictic acid, *in* S-10118
- C₁₈H₁₃ClO₇**
Phyllopsorin, P-10106
- C₁₈H₁₃NO₄**
Norcepharadione B, *in* C-10063
- C₁₈H₁₃NO₁₃**
1-[Caffeoyloxy(carboxy)methoxy]-1H-pyrrole-2,3,5-tricarboxylic acid, C-10010
- C₁₈H₁₄O₄**
14,16-Epoxy-3-hydroxy-19,20-dinor-4(18),5,7,9,13,15-abietahexaene-11,12-dione, E-10106
- C₁₈H₁₄O₅**
Rheediachromenoxanthone, R-10030
- C₁₈H₁₄O₆**
5,7-Dimethoxy-3',4'-methylenedioxyflavone, *in* T-10052
- C₁₈H₁₄O₈**
Luteolin 7-lactate, *in* T-10052
- C₁₈H₁₅NO₄**
Piperolactam C, *in* P-10121
Sevanine, S-10055
- C₁₈H₁₆N₂O₆**
Scabrosine, S-10029
- C₁₈H₁₆O₄**
5,7-Dimethoxy-8-methylflavone, *in* D-10201
- C₁₈H₁₆O₅**
Lucidin \ddagger ; Tri-Me ether, *in* D-10180
Subspinosin, *in* D-10180
1,2,5-Trimethoxy-6-methylanthraquinone, *in* T-10160

- C₁₈H₁₆O₆**
Americanin D, A-10054
Cymbinodin B, *in* T-10065
2-(Ethoxymethyl)-1,3-dihydroxy-5-methoxyanthraquinone, *in* T-10152
2-(Ethoxymethyl)-3,5-dihydroxy-1-methoxyanthraquinone, *in* T-10152
5-Hydroxy-3',4',7-trimethoxyflavone, *in* T-10052
- C₁₈H₁₆O₇**
Lathycarpin, *in* P-10062
- C₁₈H₁₆O₈**
3-Acetoxy-4',5,7-trihydroxy-6-methoxyflavanone, *in* P-10051
3-*O*-Acetylpadmatin, *in* P-10050
- C₁₈H₁₆O₉**
3',4',5,7-Tetrahydroxy-3,5',6-trimethoxyflavone, *in* H-10026
3,5,5',7-Tetrahydroxy-3',4',6-trimethoxyflavone, *in* H-10026
3',5,5',7-Tetrahydroxy-3,4',6-trimethoxyflavone, *in* H-10026
4',5,6,7-Tetrahydroxy-3,3',5'-trimethoxyflavone, *in* H-10026
- C₁₈H₁₈N₂O₃**
N-Carbamoylasimilobine, *in* A-10132
- C₁₈H₁₈O₄**
Metochalcone, *in* D-10240
- C₁₈H₁₈O₅**
4,7-Dihydroxy-8-formyl-5-methoxy-6-methylflavan, *in* T-10148
Neocomantherin, N-10016
- C₁₈H₁₈O₆**
Isoamericanol A, I-10021
- C₁₈H₁₈O₇**
2,4-Dimethoxybenzoic acid; Anhydride, *in* D-10265
- C₁₈H₁₉NO**
Lansiumamide C, *in* P-10098
- C₁₈H₁₉NO₃**
Aegeline, A-10027
- C₁₈H₁₉NO₄**
N-Feruloyltyramine, F-10006
7-Isopentenyl- γ -fagarine, *in* H-10002
Moupinamide, *in* T-10212
- C₁₈H₁₉NO₅**
7-(2,3-Epoxy-3-methylbutoxy)-4,8-dimethoxyfuro[2,3-*b*]quinoline, *in* H-10002
Evodine†, *in* H-10002
Haplantine, *in* H-10002
- C₁₈H₁₉NO₆**
▶ Cusculine, *in* P-10038
1-Hydroxy-2,3,5,6-tetramethoxy-10-methylacridone, *in* P-10038
- C₁₈H₂₀N₂O₂**
Haplamide, *in* B-10051
- C₁₈H₂₀O₅**
7-Hydroxy-2',3',4'-trimethoxyisoflavan, *in* T-10054
7-*O*-Methylisomucronulatol, *in* T-10054
Sorgalactone, S-10082
- C₁₈H₂₀O₆**
5'-Hydroxy-3'-methoxysativan, *in* P-10057
- C₁₈H₂₁NO₃**
Pandamarilactone 32, P-10008
- C₁₈H₂₁NO₄**
Anomoline, *in* A-10090
Epihomolycorine, *in* H-10069
Homolycorine, H-10069
Penarcine, *in* H-10069
- C₁₈H₂₁NO₅**
Cephamorphinanine, *in* S-10066
Homolycorine *N*-oxide, *in* H-10069
5 α -Hydroxyhomolycorine, *in* H-10069
Tazettine, T-10014
- C₁₈H₂₂NO₃[⊕]**
Roserine, R-10046
- C₁₈H₂₂N₂O₂**
Dehydroodorine, *in* O-10018
- C₁₈H₂₂N₄O₃**
Anacine, A-10077
- C₁₈H₂₂O₄**
2,3',4,5'-Tetramethoxybibenzyl, *in* T-10038
- C₁₈H₂₂O₉**
Piptocarphol; 8-Ac, 1-formyl, *in* E-10151
- C₁₈H₂₃NO**
N-Isobutyl-2,4,12-tetradecatriene-8,10-dynamide, *in* A-10079
- C₁₈H₂₃NO₃**
Cohirsitinine, C-10114
- C₁₈H₂₃NO₄**
O-Methylacutifolin, *in* A-10026
Pandamarilactone 1, P-10006
- C₁₈H₂₃NO₅**
Sinococuline, S-10066
- C₁₈H₂₃NO₆**
Erucifoline, E-10189
- C₁₈H₂₃NO₇**
Erucifoline *N*-oxide, *in* E-10189
- C₁₈H₂₄N₂O₂**
Odorine, O-10018
- C₁₈H₂₄N₂O₃**
(+)-Odorinol, *in* O-10018
(-)-Odorinol, *in* O-10018
- C₁₈H₂₄N₄O₁₈**
2,3,4,6-Tetrakis(3-nitropropanoyl)glucose, T-10074
- C₁₈H₂₄O₄**
2'-Geranyloxy-4',6'-dihydroxyacetophenone, *in* T-10129
4'-Geranyloxy-2',6'-dihydroxyacetophenone, *in* T-10129
6-Hydroxyfuranoremerophilan-9-one; Propanoyl, *in* H-10148
- C₁₈H₂₄O₅**
4'-(Geranyloxy)-2,2',6'-trihydroxyacetophenone, *in* T-10035
- C₁₈H₂₄O₆**
Sessiliflorene, S-10052
Sessiliflorol A, S-10053
Sessiliflorol B, S-10054
- C₁₈H₂₄O₇**
p-Mentha-1,3,5-triene-2,5,8,9,10-pentol; 9-Tigloyl, 2-Me ether, 10-Ac, *in* M-10030
- C₁₈H₂₄O₈**
Piptocarphol; 13-Me ether, 8-Ac, *in* E-10151
- C₁₈H₂₄O₁₀**
3'-Acetylsweroside, *in* S-10135
Regaloside A, R-10012
Regaloside D, R-10013
Regaloside H, R-10014
- C₁₈H₂₄O₁₁**
Regaloside C, *in* R-10012
- C₁₈H₂₅NO**
Anacycline, A-10079
- C₁₈H₂₅NO₅**
7-Angeloyl-9-sarracinoylretronecine, *in* S-10023
Neotriangularicine, *in* T-10104
Neotriangularine, *in* T-10104
Triangularicine, *in* T-10104
Triangularine, T-10104
- C₁₈H₂₅NO₆**
▶ Anacrotine, A-10078
trans-Anacrotine, *in* A-10078
- C₁₈H₂₆O₃**
Luffarin Z, L-10079
- C₁₈H₂₆O₄**
2-Hydroxy-4-methoxy-6-pentyl-3-prenylbenzoic acid, *in* D-10225
- C₁₈H₂₆O₆**
7,14-Dihydroxy-4,8,10,12-octadecatetraenedioic acid, D-10205
- C₁₈H₂₆O₉**
Syringin methyl ether, *in* S-10065
- C₁₈H₂₆O₁₀**
3-Alloxyloxy-1-(2-hydroxy-4,6-dimethoxyphenyl)-1-butanone, *in* H-10234
Onioside, *in* H-10234
- C₁₈H₂₆O₁₁**
Secologanoside 7-methyl ester, *in* S-10041
- C₁₈H₂₆O₁₂**
Osmantolide, *in* B-10013
- C₁₈H₂₆O₁₉**
 α -D-Galactopyranuronosyl-(1 \rightarrow 4)- α -D-galactopyranuronosyl-(1 \rightarrow 4)-D-galacturonic acid, G-10011
- C₁₈H₂₇NO₅**
Neosarracine, *in* S-10023
Neosarranicine, *in* S-10023
▶ Sarracine, S-10023
Sarranicine, *in* S-10023
- C₁₈H₂₇NO₆**
Crotalarine lactone, C-10134
Sarracine *N*-oxide, *in* S-10023
- C₁₈H₂₇NO₈**
Ruzorine, R-10063
- C₁₈H₂₈O₂**
7,9-Octadecadiynoic acid, O-10008
Sollasin E, S-10077
Sollasin F, H-10116
- C₁₈H₂₈O₃**
3,7-Epoxy-1,10-bisaboladien-12-ol; Propanoyl, *in* E-10032
10-Methoxy-1-heptadecene-4,6-diene-3,9-diol, *in* H-10024
- C₁₈H₂₈O₄**
6-Hydroxy-14,15-dinor-13-oxo-8(17)-labden-18-oic acid, H-10117
- C₁₈H₂₈O₆**
5-[Tetrahydro-4-hydroxy-2-(3-hydroxy-1-octenyl)-6-oxo-2*H*-pyran-3-yl]-3-pentenoic acid, T-10028
- C₁₈H₂₈O₈**
2-(4-Carboxy-2-oxobutyl)-3,5-dihydroxy-2-oxocyclopentaneoctanoic acid, C-10024
- C₁₈H₂₈O₁₇**
 β -D-Galactopyranuronosyl-(1 \rightarrow 3)- β -D-galactopyranuronosyl-(1 \rightarrow 3)-L-rhamnose, G-10012
 α -D-Glucopyranuronosyl-(1 \rightarrow 3)- α -D-galactopyranuronosyl-(1 \rightarrow 2)-L-rhamnose, G-10074
 β -D-Glucopyranuronosyl-(1 \rightarrow 3)- α -D-galactopyranuronosyl-(1 \rightarrow 2)-L-rhamnose, G-10075
- C₁₈H₃₀O₂**
2,4,14-Octadecatrienoic acid, O-10011
10-Octadecen-8-ynoic acid, O-10012
- C₁₈H₃₀O₃**
3,4-Dimethyl-5-pentyl-2-furanheptanoic acid, D-10284
12-Hydroxy-5,8,10-heptadecatrienoic acid; Me ester, *in* H-10159
- C₁₈H₃₀O₄**
Podoscypic acid; Et ester, *in* D-10293
- C₁₈H₃₀O₅**
7,8,13-Trihydroxy-15,16-dinor-18-isopimaranoic acid, T-10141
- C₁₈H₃₀O₆**
5-[Tetrahydro-4,6-dihydroxy-2-(3-hydroxy-1-octenyl)-2*H*-pyran-3-yl]-3-pentenoic acid, T-10027

- C₁₈H₃₀O₇**
2,10-Oxecanedione, *in* N-10040
- C₁₈H₃₀O₁₅**
 α -D-Galactopyranuronosyl-(1→2)- α -L-rhamnopyranosyl-(1→2)-L-rhamnose, G-10016
- C₁₈H₃₀O₁₇**
 β -D-Glucopyranuronosyl-(1→4)- β -D-glucopyranosyl-(1→4)-D-glucose, G-10082
 β -D-Mannopyranuronosyl-(1→4)- β -D-glucopyranosyl-(1→4)-D-galactose, M-10015
- C₁₈H₃₁NO₁₁**
 β -D-Galactopyranosyl(1→3)-2-amino-2-deoxy-D-galactose; *N*-Ac, Me glycoside, 5,6-*O*-isopropylidene, *in* G-10003
- C₁₈H₃₂O**
Luffarin Y, D-10288
- C₁₈H₃₂O₃**
4,13-Dihydroxy-15,16-dinor-4,5-seco-5-rosanone, D-10139
6-Hydroxy-9,12-octadecadienoic acid, H-10197
- C₁₈H₃₂O₅**
11,12,13-Trihydroxy-9,15-octadecadienoic acid, T-10169
- C₁₈H₃₂O₁₃**
 α -D-Rhamnopyranosyl-(1→3)- α -D-rhamnopyranosyl-(1→2)-D-rhamnose, R-10025
 α -D-Rhamnopyranosyl-(1→2)- α -L-rhamnopyranosyl-(1→3)-L-rhamnose, R-10026
 α -L-Rhamnopyranosyl-(1→2)- α -L-rhamnopyranosyl-(1→3)-L-rhamnose, R-10027
 α -L-Rhamnopyranosyl-(1→3)- α -L-rhamnopyranosyl-(1→2)-L-rhamnose, R-10028
 α -L-Rhamnopyranosyl-(1→3)- α -L-rhamnopyranosyl-(1→3)-L-rhamnose, R-10029
Viridiotriose A, *in* V-10029
- C₁₈H₃₂O₁₄**
 α -L-Rhamnopyranosyl-(1→3)- α -D-galactopyranosyl-(1→3)-L-fucose, R-10021
 β -L-Rhamnopyranosyl-(1→4)- β -D-glucopyranosyl-(1→3)-L-rhamnose, R-10024
Viridiotriose C, V-10029
- C₁₈H₃₂O₁₅**
6-Deoxy- α -D-glucopyranosyl-(1→4)- α -D-glucopyranosyl-(1→4)-D-glucose, D-10040
 α -L-Fucopyranosyl-(1→2)- β -D-galactopyranosyl-(1→4)-D-glucose, F-10024
 β -D-Galactopyranosyl-(1→4)- β -D-galactopyranosyl-(1→4)-L-rhamnose, G-10010
 α -D-Glucopyranosyl-(1→3)- β -D-galactopyranosyl-(1→2)-L-rhamnose, G-10044
 β -D-Mannopyranosyl-(1→4)- α -D-galactopyranosyl-(1→4)-L-rhamnose, M-10011
 β -L-Rhamnopyranosyl-(1→4)- β -D-glucopyranosyl-(1→4)-D-galactose, R-10022
 α -L-Rhamnopyranosyl-(1→2)-[β -D-glucopyranosyl-(1→3)]-D-glucose, R-10023
- C₁₈H₃₂O₁₆**
 α -D-Galactopyranosyl-(1→3)- β -D-fructofuranosyl α -D-glucopyranoside, G-10006
 α -D-Galactopyranosyl-(1→6)- α -D-galactopyranosyl-(1→6)-D-glucose, G-10007
 β -D-Galactopyranosyl-(1→4)- β -D-galactopyranosyl-(1→4)-D-glucose, G-10008
 β -D-Galactopyranosyl-(1→6)- β -D-galactopyranosyl-(1→4)-D-glucose, G-10009
- α -D-Glucopyranosyl-(1→2)-[α -D-glucopyranosyl-(1→4)]-D-glucose, G-10045
 α -D-Glucopyranosyl-(1→2)-[α -D-glucopyranosyl-(1→6)]-D-glucose, G-10046
 α -D-Glucopyranosyl-(1→2)- α -D-glucopyranosyl-(1→6)-D-glucose, G-10047
 α -D-Glucopyranosyl-(1→3)- α -D-glucopyranosyl-(1→3)-D-glucose, G-10048
 α -D-Glucopyranosyl-(1→3)- α -D-glucopyranosyl-(1→4)-D-glucose, G-10049
 α -D-Glucopyranosyl-(1→3)-[α -D-glucopyranosyl-(1→6)]-D-glucose, G-10050
 α -D-Glucopyranosyl-(1→3)- α -D-glucopyranosyl-(1→6)-D-glucose, G-10051
 α -D-Glucopyranosyl-(1→4)- α -D-glucopyranosyl-(1→2)-D-glucose, G-10052
 α -D-Glucopyranosyl-(1→4)- α -D-glucopyranosyl-(1→4)- α -D-glucopyranosyl-(1→3)-D-glucose, G-10053
 α -D-Glucopyranosyl-(1→4)- α -D-glucopyranosyl-(1→6)-D-glucose, G-10054
 α -D-Glucopyranosyl-(1→6)- α -D-glucopyranosyl-(1→2)-D-glucose, G-10055
 α -D-Glucopyranosyl-(1→6)- α -D-glucopyranosyl-(1→3)-D-glucose, G-10056
 α -D-Glucopyranosyl-(1→2)-[β -D-glucopyranosyl-(1→4)]-D-glucose, G-10057
 α -D-Glucopyranosyl-(1→6)- β -D-glucopyranosyl-(1→2)-D-glucose, G-10058
 α -D-Glucopyranosyl-(1→6)- β -D-glucopyranosyl-(1→3)-D-glucose, G-10059
 α -D-Glucopyranosyl-(1→6)- β -D-glucopyranosyl-(1→6)-D-glucose, G-10060
 β -D-Glucopyranosyl-(1→2)- β -D-glucopyranosyl-(1→2)-D-glucose, G-10061
 β -D-Glucopyranosyl-(1→3)- β -D-glucopyranosyl-(1→4)-D-glucose, G-10062
 β -D-Glucopyranosyl-(1→3)- β -D-glucopyranosyl-(1→6)-D-glucose, G-10063
 β -D-Glucopyranosyl-(1→4)- β -D-glucopyranosyl-(1→3)-D-glucose, G-10064
 β -D-Glucopyranosyl-(1→6)- β -D-glucopyranosyl-(1→3)-D-glucose, G-10065
 β -D-Glucopyranosyl-(1→6)- β -D-glucopyranosyl-(1→4)-D-glucose, G-10066
 β -D-Glucopyranosyl-(1→4)- β -D-mannopyranosyl-(1→4)-D-glucose, G-10067
 β -D-Mannopyranosyl-(1→4)- β -D-glucopyranosyl-(1→4)-D-glucose, M-10012
 β -D-Mannopyranosyl-(1→4)- β -D-mannopyranosyl-(1→4)-D-glucose, M-10014
- C₁₈H₃₃NO₁₅**
2-Amino-2-deoxy- β -D-glucopyranosyl-(1→3)- β -D-galactopyranosyl-(1→4)-D-glucose, A-10068
 β -D-Galactopyranosyl-(1→3)-2-amino-2-deoxy- β -D-glucopyranosyl-(1→3)-D-galactose, G-10005
- C₁₈H₃₄N₂O₁₄**
2-Amino-2-deoxy- α -D-galactopyranosyl-(1→3)- β -D-galactopyranosyl-(1→3)-2-amino-2-deoxy-D-glucose, A-10061
2-Amino-2-deoxy- α -D-galactopyranosyl-(1→3)- β -D-galactopyranosyl-(1→4)-2-amino-2-deoxy-D-glucose, A-10062
2-Amino-2-deoxy- α -D-galactopyranosyl-(1→4)- β -D-galactopyranosyl-(1→4)-2-amino-2-deoxy-D-glucose, A-10063
2-Amino-2-deoxy- β -D-glucopyranosyl-(1→3)-[2-amino-2-deoxy- β -D-glucopyranosyl-(1→6)]-D-galactose, A-10065
2-Amino-2-deoxy- β -D-glucopyranosyl-(1→3)- β -D-galactopyranosyl-(1→3)-2-amino-2-deoxy-D-glucose, A-10066
2-Amino-2-deoxy- β -D-glucopyranosyl-(1→6)- β -D-galactopyranosyl-(1→3)-2-amino-2-deoxy-D-glucose, A-10067
- C₁₈H₃₄O₄**
11-Hydroxyhexadecanoic acid; Ac, *in* H-10160
- C₁₈H₃₅N₃O₁₃**
2-Amino-2-deoxy- β -D-glucopyranosyl-(1→4)-2-amino-2-deoxy- β -D-glucopyranosyl-(1→4)-2-amino-2-deoxy-D-glucose, A-10064
- C₁₈H₃₆O₂**
Heptadecanoic acid; Me ester, *in* H-10019
- C₁₈H₃₆O₃**
11-Hydroxyhexadecanoic acid; Et ester, *in* H-10160
- C₁₈H₃₆O₄**
3,12-Dihydroxyhexadecanoic acid; Et ester, *in* D-10176
- C₁₈H₃₈O₄**
1,2,3,4-Octadecanetetrol, O-10009
- C₁₉H₁₁NO₆**
Stephadione, S-10115
- C₁₉H₁₂O₆**
5-Methoxy-3',4'-methylenedioxyfuran[2",3":7,8]flavone, *in* D-10238
- C₁₉H₁₄O₆**
2',7-Dihydroxyflavone; Di-Ac, *in* D-10164
7,8-Dihydroxyflavone; Di-Ac, *in* D-10165
1,8-Dihydroxy-3-methoxy-6-(3-oxo-1-butenyl)anthraquinone, D-10197
- C₁₉H₁₄O₈**
Torosaflavone D, T-10094
- C₁₉H₁₄O₉**
 Δ Stictic acid, S-10118
- C₁₉H₁₅NO₄**
Cepharadione B, C-10063
- C₁₉H₁₅NO₅**
Annolatine, A-10089
- C₁₉H₁₆O₄**
Emycin A, E-10015
Tanshinonal, T-10003
- C₁₉H₁₆O₈**
Cryptostictinolide, *in* S-10118
- C₁₉H₁₆O₉**
Cryptostictic acid, *in* S-10118
- C₁₉H₁₇NO₃**
Rutacridone, R-10062
- C₁₉H₁₇NO₄**
Gravacridonol, *in* R-10062
Rutacridone epoxide, *in* R-10062
- C₁₉H₁₇NO₅**
1-Hydroxyrutacridone epoxide, *in* R-10062
20-Hydroxyrutacridone epoxide, *in* R-10062
8-Oxotetrahydrothalifendine, *in* T-10032
- C₁₉H₁₇N₃**
Naufoline, N-10010
- C₁₉H₁₈O₉**
Apuleitrin, *in* H-10026
3,5,5'-Trihydroxy-3',4',6,7-tetramethoxyflavone, *in* H-10026
3',5,5'-Trihydroxy-3,4',6,7-tetramethoxyflavone, *in* H-10026
3',5,7-Trihydroxy-3,4',5',6-tetramethoxyflavone, *in* H-10026
4',5,7-Trihydroxy-3,3',5',6-tetramethoxyflavone, *in* H-10026
- C₁₉H₁₈O₁₁**
Norswertianine; 8-*O*- β -D-Glucopyranoside, *in* T-10073
- C₁₉H₁₉ClO₆**
17-Chloro-15,16-epoxy-8-hydroxy-19-nor-4,13(16),14-clerodatriene-18,6:20,12-diolide, C-10077
- C₁₉H₁₉NO₂**
Anoretine, A-10092
- C₁₉H₁₉NO₃**
N-Acetylsamilobine, *in* A-10132
- C₁₉H₁₉NO₄**
(+)-Nordicentrine, *in* D-10058
(-)-Nordicentrine, *in* D-10058
Tetrahydrothalifendine, T-10032
- C₁₉H₁₉NO₅**
Norfumaritin, *in* F-10027

- C₁₉H₂₀N₂O₄**
Ornithuric acid, *in* O-10049
- C₁₉H₂₀O₃**
9,10-Dihydro-2,5,7-trihydroxy-1-prenylphenanthrene, D-10104
14,16-Epoxy-20-nor-5(10),6,8,13-abietatetraene-11,12-dione, E-10132
- C₁₉H₂₀O₄**
Deoxybruceol, D-10038
17-Hydroxycryptotanshinone, *in* E-10132
- C₁₉H₂₀O₅**
Ribitol; 2,3,4,5-Di-*O*-benzylidene, *in* R-10032
- C₁₉H₂₀O₆**
Dehydrocyanopicrin, *in* D-10175
2'-Hydroxy-3,3',4,4'-tetramethoxychalcone, *in* P-10040
2',4',5,7-Tetramethoxyisoflavanone, *in* T-10055
- C₁₉H₂₀O₁₁**
3-Glucosyl-2,3',4,4',6-pentahydroxybenzophenone, G-10087
- C₁₉H₂₁NO₃**
N-[2-Methoxy-2-(4-methoxyphenyl)ethyl]cinnamide, *in* A-10027
- C₁₉H₂₁NO₄**
Caseamine, C-10029
- C₁₉H₂₁NO₅**
cis-Caseamine *N*-oxide, *in* C-10029
9-*O*-Demethyl-9-*O*-acetylhomolycorine, *in* H-10069
N-trans-Feruloyl-4-*O*-methyl-dopamine, *in* D-10305
- C₁₉H₂₁NO₉**
Glycohaplopine, *in* H-10002
Glycoferine, *in* H-10002
- C₁₉H₂₂N₂O**
Eburnamonine, E-10002
- C₁₉H₂₂N₂O₂**
Alkaloid RB20, *in* P-10076
1,4-Butanediamine; *N*-Me, dibenzoyl, *in* B-10051
Eburnamonine *N*⁴-oxide, *in* E-10002
Peraksine, P-10076
- C₁₉H₂₂O₂**
2-(3-Methyl-2-butenyl)-5-(2-phenylethyl)-1,3-benzenediol, M-10048
- C₁₉H₂₂O₃**
14-Hydroxyandrosta-4,6,15-triene-3,17-dione, H-10084
- C₁₉H₂₂O₄**
15,16-Epoxy-18-nor-4-oxo-1,13(16),14-clerodatrien-17,12-olide, E-10136
15,16-Epoxy-18-nor-4-oxo-2,13(16),14-clerodatrien-17,12-olide, E-10137
8-Isovaleryloxy-2-(2,4-hexadiynylidene)-1,6-dioxaspiro[4.5]dec-3-ene, *in* H-10049
- C₁₉H₂₂O₅**
Aguerin B, *in* D-10175
1-Deoxy-2,3-dehydronagilactone A, *in* N-10001
3,6-Dihydroxyfuranoteremophil-1(10)-en-9-one; 6-(Methylpropenoyl), *in* D-10170
Gibberellin A₆₂, *in* G-10030
2',3',4',7-Tetramethoxyisoflavan, *in* T-10054
- C₁₉H₂₂O₆**
8 α -Acetoxyzaluzanin D, *in* D-10175
Cynaropicrin, *in* D-10175
5,6-Dehydroeurycomalactone, *in* E-10232
2,3-Didehydronagilactone A, *in* N-10001
Glucuro lactone; α -1,2-*O*-Cyclohexylidene, 5-benzyl, *in* G-10088
8-Hydroxyzaluzanin C; 3-(2-Hydroxymethylpropenoyl), *in* D-10175
19-Nor-2-oxo-3,13-clerodadiene-15,16:20,12-diolide, N-10049
19-Nor-2-oxo-3,13-clerodadiene-16,15:20,12-diolide, N-10050
Salograviolide C, *in* D-10175
Saupirin, *in* D-10175
- C₁₉H₂₂O₇**
Ligstral, L-10051
- C₁₉H₂₂O₈**
1,4-Epoxy-8,10,13-trihydroxy-1,5,7(11)-germacratien-12,6-olide; 8,13-Di-Ac, *in* E-10159
- C₁₉H₂₂O₉**
5-Acetonyl-6-glucosyl-7-hydroxy-2-methyl-4*H*-1-benzopyran-4-one, A-10013
Eurylactone, E-10233
Eurylactone B, E-10235
- C₁₉H₂₂O₁₀**
Mollin, *in* D-10133
- C₁₉H₂₃ClO₆**
Linichlorin B, *in* D-10175
- C₁₉H₂₃NO₄**
Annonelliptine, A-10090
- C₁₉H₂₄ClNO₈**
1 α -Hydroxymagnocurarine; Perchlorate, *in* H-10172
- C₁₉H₂₄NO₄⁺**
1 α -Hydroxymagnocurarine, H-10172
- C₁₉H₂₄N₂O₂**
10-Hydroxygeissoschizol, H-10149
Isonolauerine, *in* N-10020
Neolauerine, N-10020
Norajmaline, *in* A-10035
- C₁₉H₂₄N₂O₃**
15-Hydroxyisonolauerine, *in* N-10020
- C₁₉H₂₄O**
15,16-Epoxy-19-nor-1,3,5(10),13(16),14-clerodapentaene, E-10133
- C₁₉H₂₄O₂**
Dehydrofalcariol; Ac, *in* H-10022
- C₁₉H₂₄O₃**
Ginsenoine F, *in* H-10022
11-Hydroxyandrosta-1,4-diene-3,17-dione, H-10083
6 β -(2-Methylacryloyloxy)eurypsins, *in* F-10033
16-Nor-15-oxo-7,13-abietadien-19,6-olide, N-10048
- C₁₉H₂₄O₄**
1 β ,10 β -Epoxy-6 β -(2-methylacryloyloxy)furanoteremophilane, *in* E-10087
Furanoteremophil-1(10)-ene-6,9-diol; 6-(2-Methylpropenoyl), *in* F-10031
Furanoteremophil-1(10)-ene-6,9-diol; 6-(2-Methylpropenoyl), *in* F-10031
6-Hydroxyfuranoteremophilan-9-one; Methylpropenoyl, *in* H-10148
6-Hydroxyfuranoteremophilan-9-one; *O*-(2-Methyl-2-propenoyl), *in* H-10148
11,12,16-Trihydroxy-20-nor-5(10),8,11,13-abietatetraen-1-one, T-10166
- C₁₉H₂₄O₅**
Aguerin A, *in* D-10175
Cebellin O, *in* D-10174
▶ Crocetin, *in* C-10135
1-Deoxynagilactone A, *in* N-10001
1,10-Epoxyfuranoteremophilane-3,6-diol; 3-(2-Methyl-2-propenoyl), *in* E-10085
1,10-Epoxyfuranoteremophilane-6,9-diol; 6-(2-Methylpropenoyl), *in* E-10086
5,8-Epoxy-18-nor-3,6-dioxo-11,15-cembradien-20,10-olide, E-10134
Gibberellin A₆₁, G-10030
Taxifolial A, T-10011
- C₁₉H₂₄O₆**
Calein E, *in* D-10220
1-Deoxy-2 α -hydroxynagilactone A, *in* N-10001
5,8:11,12-Diepoxy-18-nor-3,6-dioxo-11,15-cembradien-20,10-olide, *in* E-10134
- Dimerostemmabradiolide; 1-*O*-(2-Hydroxymethylpropenoyl), *in* D-10159
5,8-Epoxy-11 α -hydroxy-18-nor-3,6-dioxo-12,15-cembradien-20,10-olide, *in* E-10134
5,8-Epoxy-11 β -hydroxy-18-nor-3,6-dioxo-12,15-cembradien-20,10-olide, *in* E-10134
Eurycomalactone, E-10232
Gibberellin A₁₆, G-10029
Gibberellin A₅₄, *in* G-10029
Gibberellin A₆₀, *in* G-10030
Gibberellin A₉₀, *in* G-10030
Gochnatolide, *in* D-10172
8-Hydroxyzaluzanin C; 8-(3-Hydroxy-2-methylpropenoyl), *in* D-10175
Nagilactone A, N-10001
Sellowin C, *in* N-10001
- C₁₉H₂₄O₇**
14-Acetoxydicomanolide, *in* T-10150
1,4-Epidioxy-9,10-dihydroxy-2,11(13)-guaiaadien-12,6-olide; 9-(2-Methylpropenoyl), *in* E-10027
Gibberellin A₅₇, *in* G-10029
Gibberellin A₇₉, *in* G-10029
6 α -Hydroxyeurycomalactone, *in* E-10232
3 β -Hydroxynagilactone A, *in* N-10001
Nagilactone B, *in* N-10001
4,6,9-Trihydroxy-1(10),2-guaiaadien-12,8-olide; 6,9-Di-Ac, *in* T-10151
Urbalactone, *in* N-10001
- C₁₉H₂₄O₈**
Indaquassin A, I-10007
Piptocarphin C, *in* E-10151
Piptocarphin H, *in* E-10151
- C₁₉H₂₄O₉**
Hirsutolide, *in* E-10151
Piptocarphol; 10,13-Di-Ac, *in* E-10151
Spicatolide A, *in* E-10166
- C₁₉H₂₅NO₃**
Cryprochine, C-10136
11-Hydroxyandrosta-1,4-diene-3,17-dione; 17-Oxime, *in* H-10083
- C₁₉H₂₅NO₄**
Pandamarilactone 31, P-10007
- C₁₉H₂₅NO₅**
Kobutimycin A, K-10014
Ungvedine, *in* T-10014
- C₁₉H₂₅NO₁₁**
Zierinxyloside, *in* H-10166
- C₁₉H₂₆N₂O**
Crooksidine, *in* D-10024
19-Oxodecarbomethoxytetrahydrosecoedine, *in* D-10024
- C₁₉H₂₆N₂O₅**
Saussureamine C, S-10027
- C₁₉H₂₆O₃**
Ginsenoine H, *in* H-10017
Ocimepyrone, O-10005
- C₁₉H₂₆O₄**
6-Hydroxyfuranoteremophilan-9-one; *O*-(2-Methylpropenoyl), *in* H-10148
Salvicanaraldehyde, S-10006
- C₁₉H₂₆O₅**
4,6-Dihydroxyfuranoteremophilan-9-one; 6-(Methylpropenoyl), *in* D-10169
12,14-Dihydroxy-3(15)-longipinen-4-one; Di-Ac, *in* D-10192
1,10-Epoxyfuranoteremophilane-6,9-diol; 9-(2-Methylpropenoyl), *in* E-10086
Schkuhrioidin, *in* D-10172
- C₁₉H₂₆O₆**
Britannilactone; Di-Ac, *in* D-10252
Dehydroxylongilactone, *in* L-10061
Dihydroeurycomalactone, *in* E-10232
7 α -Hydroxyeurycomalactone, *in* E-10232
- C₁₉H₂₆O₇**
Eurycomalactone; 2 α -Alcohol, 6 α -hydroxy, $\Delta^{4,18}$ -isomer, *in* E-10232
Longilactone, L-10061

- C₁₉H₂₆O₈**
Eurylactone A, E-10234
Piptocarphol; 1,13-Di-Me ether, 8-Ac, *in* E-10151
Piptocarphol; 1,13-Di-Me ether, 10-Ac, *in* E-10151
Spicatolide B, *in* E-10166
Trihololide†, *in* T-10049
- C₁₉H₂₆O₁₀**
Methylregalolide A, *in* R-10012
- C₁₉H₂₆O₁₁**
Regalolide G, *in* R-10013
- C₁₉H₂₆O₁₂**
2,4-Dihydroxybenzaldehyde; 4-Me ether, 2-*O*-[β-D-xylopyranosyl-(1→6)-β-D-glucopyranoside], *in* D-10109
3-*O*-β-D-Glucopyranuronosyl-D-galactose; Benzyl glycoside, *in* G-10078
- C₁₉H₂₇NO**
N-Methylanacycline, *in* A-10079
- C₁₉H₂₇NO₇**
Senecioracene, S-10047
- C₁₉H₂₇NO₈S**
9-[(2-Amino-2-carboxyethyl)thio]-10-hydroxy-3,5,7-tetradecatrienedioic acid; 14*N*-Ac, *in* A-10059
- C₁₉H₂₈N₂**
Decarbomethoxytetrahydrosecodine, D-10024
- C₁₉H₂₈O₃**
10-Acetoxy-8-heptadecene-4,6-diyn-3-ol, *in* H-10023
- C₁₉H₂₈O₄**
10-Acetylpanaxytriol, *in* H-10024
6-Hydroxy-15-nor-14-oxo-8(17),13(16)-labdadien-18-oic acid, H-10196
- C₁₉H₂₈O₅**
1β,10α:4α,5β-Diepoxy-8α-isobutoxyglechomanolide, *in* D-10080
1β,10α:4α,5β-Diepoxy-8β-isobutoxyglechomanolide, *in* D-10080
- C₁₉H₂₈O₇**
Eurycomalactone; 2α-Alcohol, 3,4α-dihydro, 6α-hydroxy, *in* E-10232
Longilactone; 2α-Alcohol, Δ⁴⁽¹⁸⁾-isomer, *in* L-10061
- C₁₉H₂₈O₁₀**
2-*O*-β-D-Glucopyranosyl-L-rhamnose; Benzyl glycoside, *in* G-10070
3-*O*-β-D-Glucopyranosyl-L-rhamnose; Benzyl glycoside, *in* G-10071
- C₁₉H₂₈O₁₁**
7-Acetylsecologanol, *in* S-10041
- C₁₉H₂₈O₁₂**
6-*O*-Acetylshanghiside methyl ester, *in* S-10057
Barlerin, *in* S-10057
- C₁₉H₂₉NO₅S**
11-[(2-Amino-2-carboxyethyl)thio]-12-hydroxy-5,7,9-hexadecatrienedioic acid, A-10057
- C₁₉H₃₀**
3,6,9,12,15-Nonadecapentaene, N-10038
- C₁₉H₃₀O₂**
3,5,10-Bisabolatrien-12-ol; 2-Methylpropanoyl, *in* B-10033
- C₁₉H₃₀O₃**
3,7-Epoxy-1,10-bisaboladien-12-ol; Butanoyl, *in* E-10032
3,7-Epoxy-1,10-bisaboladien-12-ol; Methylpropanoyl, *in* E-10032
Havardic acid F, *in* H-10194
- C₁₉H₃₀O₄**
Lapidol; 6-(2-Methylpropanoyl), *in* D-10132
- C₁₉H₃₀O₈**
Icariside B₂, *in* H-10173
- C₁₉H₃₂**
15-Nor-3,13-clerodadiene, N-10043
- C₁₉H₃₂O₂**
15-Hydroxy-17-nor-8-labden-7-one, H-10194
- C₁₉H₃₄O₈**
Scorospiramide, *in* E-10128
- C₁₉H₃₄O₁₆**
α-D-Glucopyranosyl-(1→3)-α-D-glucopyranosyl-(1→3)-D-glucose; Me glycoside, *in* G-10048
- C₁₉H₃₈O₂**
Heptadecanoic acid; Et ester, *in* H-10019
4-Methylhexadecanoic acid; Et ester, *in* M-10061
- C₂₀H₁₄Cl₄O₆**
Russuphelin A, R-10061
- C₂₀H₁₄O₇**
2-(1,3-Benzodioxol-5-yl)-5,6-dimethoxy-4*H*-furo[2,3-*h*]-1-benzopyran-4-one, B-10014
- C₂₀H₁₄O₈**
1,2,6-Trihydroxyanthraquinone; Tri-Ac, *in* T-10131
- C₂₀H₁₆O₃**
8,8-Dimethyl-2-phenyl-4*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-4-one, D-10285
- C₂₀H₁₆O₄**
5-Hydroxy-8,8-dimethyl-2-phenyl-2*H*,6*H*-benzo[1,2-*b*:5,4-*b'*]dipyran-6-one, H-10113
Xestoquinolide A, X-10008
- C₂₀H₁₆O₆**
Citrusinol, C-10099
- C₂₀H₁₆O₉**
Methylstictic acid, *in* S-10118
3,3',5'-Trimethoxy-4',5':6',7'-bis(methylenedioxy)flavone, *in* H-10026
- C₂₀H₁₇NO₉**
Anthrotainin, A-10096
- C₂₀H₁₈O₄**
4',7'-Dihydroxy-8-prenylisoflavone, D-10248
Maackiaflavanol, D-10247
- C₂₀H₁₈O₅**
Psorolactone B, P-10165
- C₂₀H₁₈O₆**
Garveatin A quinone, G-10022
Glyasperin F, G-10096
Licoflavonol, T-10067
- C₂₀H₁₈O₇**
Lupinol C, L-10087
Neouralenol, P-10061
Uralenol, P-10060
- C₂₀H₁₈O₈**
Hemidesmin 2, H-10013
- C₂₀H₁₈O₁₀**
Dimethyl 4,4'-dimethoxy-5,6:5',6'-bis(methylenedioxy)biphenyl-2,2'-dicarboxylate, *in* H-10051
Luteolin; 4'-*O*-α-L-Arabinoside, *in* T-10052
Luteolin; 3'-*O*-β-D-Xylopyranoside, *in* T-10052
Luteolin; 7-*O*-β-D-Xyloside, *in* T-10052
- C₂₀H₁₈O₁₁**
Quercetin 3-arabinoside, Q-10005
- C₂₀H₁₈O₁₄**
1,3-Hexahydroxydiphenoylglucose, H-10055
- C₂₀H₁₉NO₅**
Isochelidonine, I-10025
- C₂₀H₁₉N₃O₄**
Leucettamine A, L-10044
- C₂₀H₁₉O₅[⊕]**
6-(1-Ethyl-1-propenyl)-3,4',5,7-tetrahydroxyflavylium(1+), E-10204
- C₂₀H₂₀ClNO₄**
Caseadinium(1+); Chloride, *in* C-10028
- C₂₀H₂₀NO₄[⊕]**
Caseadinium(1+), C-10028
- C₂₀H₂₀O₃**
Ovaliflavanone B, H-10222
- C₂₀H₂₀O₄**
Crotaromsin, D-10246
2,4-Dihydroxy-3-prenyl-6-styrylbenzoic acid, D-10249
4,6-Dihydroxy-3-prenyl-2-styrylbenzoic acid, D-10250
Neochamelin, N-10014
Spiranthoquinone, S-10092
1,3,8-Trihydroxy-6-methyl-2-prenyl-9(10*H*)-anthracenone, T-10165
- C₂₀H₂₀O₅**
3',4',7-Trihydroxy-8-prenylflavanone, T-10189
- C₂₀H₂₀O₆**
12,20:15,16-Diepoxy-3,8(17),13(16),14-clerodatetraen-19,20-olid-18-oic acid, D-10067
Piperitol†, P-10120
Pluviatol, *in* P-10120
Xanthoxylol, *in* P-10120
- C₂₀H₂₀O₇**
Ribitol; 2,4-*O*-Methylene, 1,5-dibenzoyl, *in* R-10032
3,4',5,7-Tetrahydroxy-6-(3-hydroxy-3-methylbutyl)flavone, *in* T-10067
3,3',4',5'-Tetrahydroxy-7-prenyloxyflavanone, *in* P-10050
- C₂₀H₂₀O₉**
Apuleirin, *in* H-10026
3',5-Dihydroxy,3,4',5',6,7-pentamethoxyflavone, *in* H-10026
Murrayanol, *in* H-10026
- C₂₀H₂₀O₁₁**
Comastomaside, *in* T-10073
Taxifolin; 3-*O*-β-D-Xylopyranoside, *in* P-10050
- C₂₀H₂₁NO₄**
Dicentrine, D-10058
- C₂₀H₂₁NO₅**
Fumaritine, F-10027
4-Hydroxydicentrine, *in* D-10058
8-Oxoisocorypalmine, *in* I-10029
Papracinine, *in* F-10027
- C₂₀H₂₁NO₆**
N-Deacetyl-*N*-formyl-3-*O*-demethyl-β-lumicolchicine, *in* L-10082
Fumaritine *N*-oxide, *in* F-10027
- C₂₀H₂₁NO₁₁**
Yokonoside, Y-10002
- C₂₀H₂₁N₃O₃**
Cycloechinulin, C-10168
- C₂₀H₂₂N₂O₂**
Pyramidatine, *in* B-10051
- C₂₀H₂₂N₂O₃**
Picralstonine, *in* P-10116
Picrinine, P-10116
- C₂₀H₂₂N₂O₄**
Isopteropodic acid, *in* U-10005
Mitraphyllic acid, *in* M-10082
Ornithine; *N*⁷,*N*⁹-Dibenzoyl, Me ether, *in* O-10049
Pteropodic acid, *in* U-10005
- C₂₀H₂₂O₃**
Spiranthol A, *in* D-10104
- C₂₀H₂₂O₄**
2,4-Dihydroxy-6-(2-phenylethyl)-3-prenylbenzoic acid, D-10236
Pulverochromenol, P-10170
Spiranthol C, S-10091
- C₂₀H₂₂O₅**
2',4',5,7-Tetrahydroxy-6-prenylisoflavan, T-10068

- C₂₀H₂₂O₆**
15,16-Epoxy-6-hydroxy-3,7-13(16),14-clerodatetraen-17,12-olid-18-oic acid, E-10099
- C₂₀H₂₂O₁₁**
Odontoside†, O-10017
- C₂₀H₂₂O₁₂**
2-Methoxy-4-hydroxyphenyl 1-*O*-(6-*O*-galloyl-β-D-glucopyranoside), in B-10013
3-Methoxy-4-hydroxyphenyl 1-*O*-(6-*O*-galloyl-β-D-glucopyranoside), in B-10013
- C₂₀H₂₃NO₂**
Hortiamide, in T-10212
- C₂₀H₂₃NO₃**
N-[2-Ethoxy-2-(4-methoxyphenyl)ethyl]cinnamide, in A-10027
- C₂₀H₂₃NO₄**
Isocorydine, I-10028
Isocorypalmine, I-10029
Romneine, R-10041
- C₂₀H₂₃NO₅**
Crabbine, in I-10028
Isocorydine *N*-oxide, in I-10028
Thaipetaline, in T-10081
- C₂₀H₂₃NO₁₂**
Kalbreclatine, in N-10004
Narciclasine 4-*O*-glucoside, in N-10004
- C₂₀H₂₄N₂O₂**
*N,N*p-1,4-Butanediylbis[*N*-methylbenzamide], in B-10051
11-Methoxyeburnamonine, in E-10002
- C₂₀H₂₄N₂O₃**
Undulifoline, U-10009
- C₂₀H₂₄N₂O₁₂**
N-[[3-(β-D-Glucopyranosyloxy)-2,3-dihydro-2-oxo-1*H*-indol-3-yl]acetyl]aspartic acid, G-10068
- C₂₀H₂₄O₂**
Candidissiol, C-10019
3-Methoxy-5-(2-phenylethyl)-2-prenylphenol, in M-10048
- C₂₀H₂₄O₄**
Triptoquinonic acid A, T-10203
Triptoquinone A, A-10005
- C₂₀H₂₄O₅**
3,6-Dihydroxyfuranoteremophil-1(10)-en-9-one; 6-Angeloyl, in D-10170
3-(3,4-Dihydroxyphenyl)-2-propen-1-ol; 4'-Methoxy ether, 1,3'-diangeloyl, in D-10243
8-Hydroxyzaluzanin C; 8-(3-Methyl-2-butenoyl), in D-10175
Longirabdolactone, in L-10063
Rosmadial, R-10050
- C₂₀H₂₄O₆**
7,12-Dihydroxy-8,12-abietadiene-12,6-olide, D-10106
3,6-Dihydroxyfuranoteremophil-1(10)-en-9-one; 6-(2,3-Epoxy-2-methylbutanoyl), in D-10170
15,16-Epoxy-2-hydroxy-3,13(16),14-clerodatrien-17,12-olid-18-oic acid, E-10101
15,16-Epoxy-6-hydroxy-3,13(16),14-clerodatrien-17,12-olid-18-oic acid, E-10102
15,16-Epoxy-6-hydroxy-3,13(16),14-clerodatrien-20,12-olid-18-oic acid, E-10103
15,16-Epoxy-12-hydroxy-3,13(16),14-clerodatrien-18,6-olid-17-oic acid, E-10104
16-Hydroxyrosmadial, in R-10050
12-Hydroxy-6,11,14-trioxo-8,12-abietadien-18-oic acid, H-10237
8-Hydroxyzaluzanin C; 8-(4-Hydroxy-3-methyl-2-butenoyl), in D-10175
- C₂₀H₂₄O₇**
Athanadregeolide, in E-10027
4,18:15,16-Diepoxy-2,19-dihydroxy-6-oxo-13(16),14-clerodadien-20,12-olide, D-10075
10-Epiathanadregeolide, in E-10027
- 1,4-Epidioxy-9,10-dihydroxy-2,11(13)-guaiaiden-12,6-olide; 9-Angeloyl, in E-10027
15,16-Epoxy-6,19-dihydroxy-3,13(16),14-clerodatrien-20,12-olide, E-10061
15,16-Epoxy-2,6-dihydroxy-3,13(16),14-clerodatrien-17,12-olid-18-oic acid, E-10062
α-Peroxyachifolide, in E-10027
β-Peroxyachifolide, in E-10027
- C₂₀H₂₄O₈**
3,6-Epoxy-8,11-dihydroxy-10-oxo-3,5,12-cembratriene-18,20-dioic acid, E-10070
8α-Hydroxyanthadregeolide, in E-10027
Shinjulactone E, in H-10095
- C₂₀H₂₄O₉**
Spirarin, in T-10211
- C₂₀H₂₄O₁₀**
Galapagin, in D-10254
- C₂₀H₂₅NO₃**
Venulusone, V-10019
- C₂₀H₂₅NO₄**
Erythristemine, E-10192
- C₂₀H₂₅NO₅**
Erythristemine *N*-oxide, in E-10192
- C₂₀H₂₅NO₇**
O-Acetylerucifoline, in E-10189
- C₂₀H₂₆N₂O₂**
Ajmaline, A-10035
10-Methoxygeissoschizol, in H-10149
Sandwicine, in A-10035
- C₂₀H₂₆N₂O₃**
Ajmalinol, in A-10035
- C₂₀H₂₆O₃**
18(4→3)-Abeo-14-hydroxy-3,8,11,13-abietatetraen-18-oic acid, A-10007
6β-Angeloyloxyeurypsins, in F-10033
Furanoteremophil-1(10)-en-3-ol; 3-Angeloyl, in F-10032
Montbretol, M-10088
6β-Seneciolyoxyeurypsins, in F-10033
6β-Tigloyloxyeurypsins, in F-10033
3,4,4'-Trihydroxy-5,5'-diisopropyl-2,2'-dimethylbiphenyl, in T-10044
Triptoquinonal, in H-10079
- C₂₀H₂₆O₄**
Caudicifolin, C-10037
1,10-Epoxyfuranoteremophil-6-ol; 6-Angeloyl, in E-10087
1,10-Epoxyfuranoteremophil-6-ol; 6-Tigloyl, in E-10087
1β,10β-Epoxy-6β-seneciolyoxyfuranoteremophilane, in E-10087
Furanoteremophil-1(10)-ene-3,6-diol; 6-Angeloyl, in F-10030
Furanoteremophil-1(10)-ene-6,9-diol; 6-Angeloyl, in F-10031
Furanoteremophil-1(10)-ene-6,9-diol; 6-Angeloyl, in F-10031
Furanoteremophil-1(10)-ene-3,6-diol; 6-(3-Methyl-2-butenoyl), in F-10030
Furanoteremophil-1(10)-ene-6,9-diol; 6-(3-Methyl-2-butenoyl), in F-10031
Furanoteremophil-1(10)-ene-6,9-diol; 6-(3-Methyl-2-butenoyl), in F-10031
Furanoteremophil-1(10)-ene-3,6-diol; 6-Tigloyl, in F-10030
6-Hydroxyfuranoteremophil-9-one; Angeloyl, in H-10148
6-Hydroxyfuranoteremophil-9-one; Angeloyl, in H-10148
6-Hydroxyfuranoteremophil-9-one; 3-Methyl-2-butenoyl, in H-10148
6-Hydroxyfuranoteremophil-9-one; *O*-(3-Methyl-2-butenoyl), in H-10148
6-Hydroxyfuranoteremophil-9-one; *O*-Tigloyl, in H-10148
6-Hydroxyfuranoteremophil-9-one; *O*-Tigloyl, in H-10148
16-Hydroxy-7-oxo-5-kauren-19,6-olide, H-10208
Senemorin, in E-10087
- 3,3',4,4'-Tetrahydroxy-5,5'-diisopropyl-2,2'-dimethylbiphenyl, T-10044
6,7,11-Trihydroxy-5,7,9(11),13-abietatetraen-12-one, T-10124
Triptoquinone B, in D-10105
Triptoquinonic acid B, in H-10079
- C₂₀H₂₆O₅**
Beogradolide B, in D-10159
Coleon V, T-10125
3,4:15,16-Diepoxy-12-oxo-13(16),14-clerodadien-17-oic acid, D-10084
4,6-Dihydroxyfuranoteremophil-9-one; 6-Angeloyl, in D-10169
4,6-Dihydroxyfuranoteremophil-9-one; 6-Tigloyl, in D-10169
1,10-Epoxyfuranoteremophilane-3,6-diol; 3-Angeloyl, in E-10085
1,10-Epoxyfuranoteremophilane-3,6-diol; 6-Angeloyl, in E-10085
1,10-Epoxyfuranoteremophilane-6,9-diol; 6-Angeloyl, in E-10086
1,10-Epoxyfuranoteremophilane-6,9-diol; 6-(3-Methyl-2-butenoyl), in E-10086
1,10-Epoxyfuranoteremophilane-6,9-diol; 6-Tigloyl, in E-10086
Furanoteremophil-1(10)-ene-3,6-diol; 6-Propanoyl, 3-Ac, in F-10030
8β-Hydroxybalchanin; 8-Angeloyl, in D-10159
6-Hydroxyfuranoteremophil-9-one; *O*-(2,3-Epoxy-2-methylbutanoyl), in H-10148
Longirabdacthal, L-10063
11,12,16-Trihydroxy-8,11,13-abietatrien-20,7-olide, T-10127
- C₂₀H₂₆O₆**
Calein F, in D-10220
Coleon D, in T-10125
Coleon T, in T-10125
11-Dehydroklaineone, in K-10013
15,16:18,19-Diepoxy-6,18-dihydroxy-13(16),14-clerodadien-20,12-olide, D-10074
2,8-Dihydroxy-3,13-clerodadiene-6,18:15,16-diolide, D-10128
7,12-Dihydroxy-11,14-dioxo-8,12-abietadien-18-oic acid, D-10140
4,6-Dihydroxyfuranoteremophil-9-one; 6-(2,3-Epoxy-2-methylbutanoyl), in D-10169
14-Hydroxy-*cis,cis*-artemisifolin; 6-Tigloyl, in T-10150
8β-Hydroxybalchanin; 8-(2,3-Epoxy-2-methylbutanoyl), in D-10159
8-Hydroxy-7-oxo-3-clerodene-15,16:18,19-diolide, H-10207
Shikodonin, S-10059
6,11,12,16-Tetrahydroxy-8,11,13-abietatrien-20,7-olide, in P-10037
7,11,12,16-Tetrahydroxy-8,11,13-abietatrien-20,6-olide, T-10034
Tirotondifolin C, in D-10159
Tirotondifolin D, in D-10159
- C₂₀H₂₆O₇**
18(4→3)-Abeo-7,8:13,14-diepoxy-9,11,13-trihydroxy-4-abieten-18,19-olide, A-10004
1,4-Epidioxy-9,10-dihydroxy-2,11(13)-guaiaiden-12,6-olide; 9-(2-Methylbutanoyl), in E-10027
1,4-Epidioxy-9,10-dihydroxy-2,11(13)-guaiaiden-12,6-olide; 9-(3-Methylbutanoyl), in E-10027
Lecocarpinolide G, in T-10178
Lecocarpinolide M, in T-10178
- C₂₀H₂₆O₈**
6-Hydroxychaparrinone, in H-10095
Indaquassin B, I-10008
Piptocarphin G, in E-10151
Specionin†, S-10085
- C₂₀H₂₆O₉**
Celaenodendrolide I, C-10043
Piptocarphol; 1-Me ether, 8,13-di-Ac, in E-10151
Piptocarphol; 1-Me ether, 10,13-di-Ac, in E-10151
8β-Propionylxy-10β-hydroxyhirsutinolide 13-*O*-acetate, in E-10151

- C₂₀H₂₆O₁₁**
Regaloside B, *in* R-10013
Regaloside I, *in* R-10014
- C₂₀H₂₇ClN₂O₂**
10-Hydroxygeissoschizol; *N*-Me, chloride, *in* H-10149
- C₂₀H₂₇NO₂**
Talassamine, T-10001
Venulol, V-10018
- C₂₀H₂₇NO₃**
Delfissinol, D-10031
- C₂₀H₂₇NO₄**
Involucratine, I-10015
Septentriosine, S-10048
- C₂₀H₂₇NO₅**
Kobutimycin B, K-10015
- C₂₀H₂₇NO₇**
Acetylanacrotine, *in* A-10078
Acetyl-*trans*-anacrotine, *in* A-10078
Ipanguline B, I-10019
Isoipanguline B, *in* I-10019
- C₂₀H₂₇N₂O₂[⊕]**
Huntrabrine *N*-metho salt, *in* H-10149
- C₂₀H₂₈N₂O₃**
13 α -Tigloyloxymultiflorine, *in* M-10092
- C₂₀H₂₈O₂**
7,13,15-Abietatrien-18-oic acid, A-10009
Acalycigorgin C, X-10004
15,16-Epoxy-3,13(16),14-clerodatrien-19-ol, E-10046
Harziandione, H-10005
- C₂₀H₂₈O₃**
Antibiotic Sch 47918, A-10103
2,17-Dihydroxy-2,15-beyeradien-1-one, D-10114
2,19-Dihydroxy-2,15-beyeradien-1-one, D-10115
15,16-Epoxy-3,13(16),14-clerodatrien-18-oic acid, E-10047
15,16-Epoxy-1(10),13(16),14-halimatrien-19-oic acid, E-10095
O-Geranylconiferyl alcohol, *in* D-10243
Gibberellin A₁₂ 7-aldehyde, *in* G-10028
2-Hydroxy-8,11,13-abietatrien-18-oic acid, H-10081
ent-15-Oxo-16-kauren-19-oic acid, *in* H-10170
Rabdombrosanin, *in* S-10058
Sarsolide A, S-10024
Sollasin D, S-10076
Terminalic acid, T-10017
Triptoquinol, H-10079
- C₂₀H₂₈O₄**
Cyrtophyllone B, T-10128
5-Deoxyingenol, *in* I-10012
20-Deoxyingenol, *in* I-10012
3,19-Dihydroxy-8,12-abietadiene-11,14-dione, D-10105
7,11-Dihydroxy-3,9,12-eunicellatrien-2-one, D-10162
6,11-Dihydroxy-16-kaurene-3,15-dione, D-10186
6,13-Dihydroxy-7-oxo-5,8(14)-abietadien-19-ol, D-10216
7,20-Epoxy-8,11,13-abietatriene-11,12,16-triol, E-10031
15,16-Epoxy-2-hydroxy-3,13(16),14-clerodatrien-18-oic acid, E-10100
1,10-Epoxy-6-(2-methylbutanoyloxy) furanoeremophilane, *in* E-10087
3,4-Epoxy-13-oxo-7,15(17)-cembradien-15,14-olide, E-10140
Furanoeremophilane-1,10-diol; 1-Tigloyl, *in* F-10029
Furanoeremophil-1(10)-ene-3,6-diol; 6-(3-Methylbutanoyl), *in* F-10030
Furanoeremophil-1(10)-ene-6,9-diol; 6-(3-Methylbutanoyl), *in* F-10031
Gibberellin A₁₂, G-10028
6-Hydroxyfuranoeremophilan-9-one; 3-Methylbutanoyl, *in* H-10148
15-Hydroxy-12-oxo-7,13-abietadien-18-oic acid, H-10201
13-Hydroxy-7-oxo-8(14)-abieten-19,6-olide, H-10202
15-Hydroxy-9-oxo-5,10,13,17-prostatetraenoic acid, H-10212
Illustrol, I-10003
12-Isoprenyl-3-cedrene-14,19-dioic acid, I-10046
Rabdolatifolin, *in* S-10058
Succinolide, *in* E-10098
11,12,16-Trihydroxy-8,11,13-abietatrien-20-ol, *in* T-10126
7,11,15-Trihydroxy-1,16-kauradien-3-one, T-10153
Vallartanone B, V-10003
Webiol; 8-Angeloyl, *in* H-10108
- C₂₀H₂₈O₅**
7,20,11,12-Diepoxy-16-kaurene-6,7,15-triol, D-10083
4,6-Dihydroxyfuranoeremophilan-9-one; 6-(2-Methylbutanoyl), *in* D-10169
6,8-Dihydroxy-3-oxo-11,13-clerodadien-15,16-olide, D-10217
3,4-Epoxy-10,14-dihydroxy-7,11,15(17)-cembratrien-16,2-olide, E-10060
17,18-Epoxy-11,18-dihydroxy-1(9),6,10(17),13-xenicatetraen-15-oic acid, E-10074
1,10-Epoxyfuranoeremophilane-6,9-diol; 6-(2-Methylbutanoyl), *in* E-10086
1,10-Epoxyfuranoeremophilane-6,9-diol; 6-(3-Methylbutanoyl), *in* E-10086
7,20-Epoxy-1,7,11-trihydroxy-16-kauren-15-one, E-10160
7,20-Epoxy-1,7,14-trihydroxy-16-kauren-15-one, E-10161
Gibberellin A₁₄, *in* G-10028
▶ Ingenol, I-10012
6,7,11,15-Tetrahydroxy-1,16-kauradien-3-one, T-10057
11,12,16-Trihydroxy-8,11,13-abietatrien-20-oic acid, T-10126
Webiol; 8-(2,3-Epoxy-3-methylbutanoyl), *in* H-10108
- C₂₀H₂₈O₆**
Amarolide, A-10053
Beogradolide A, *in* D-10159
Chaparramarin, *in* C-10066
Effusanin E, *in* E-10119
7,20-Epoxy-6,7,12,19-tetrahydroxy-16-kauren-15-one, E-10152
19,20-Epoxy-1,7,14,20-tetrahydroxy-16-kauren-15-one, E-10153
Isophorbol, *in* P-10063
Klaineanone, K-10013
Lasiodonin, *in* E-10119
Neurolenin A, *in* D-10220
4,9,12,13,20-Pentahydroxy-1,6-tigliadien-3-one, P-10063
Shinjulactone H, *in* C-10066
2,7,8,11-Tetrahydroxy-1,15-isopimaradiene-3,14-dione, T-10056
1,8,10-Trihydroxy-7(11)-eremophilen-12,8-olide; 1-Angeloyl, *in* T-10146
6,7,14-Trihydroxy-18-vouacapanoic acid, T-10196
- C₂₀H₂₈O₇**
11(15→1)-Abeo-5,20:10,5-diepoxy-2,4,7,13-tetrahydroxy-11-taxen-9-one, A-10003
8-Angeloyloxyternifolin, *in* T-10179
4,10:15,16-Diepoxy-3,6,18,19-tetrahydroxy-13(16),14-clerodadien-7-one, D-10086
Elemacaranin, *in* T-10145
15-Hydroxyklaineanone, *in* K-10013
6,7,11,12,16-Pentahydroxy-8,11,13-abietatrien-20-oic acid, P-10037
Shinjulactone G, *in* K-10013
4,18:10,12:15,16-Triepoxy-13(16),14-clerodadiene-3,6,12,19-tetrol, T-10120
- C₂₀H₂₈O₈**
12,16-Dihydro-6,7,12,14-tetrahydroxy-16-oxovinhatocic acid, D-10103
14 β ,15 β -Dihydroxyklaineanone, *in* K-10013
17,18-Epoxyelemacaranin, *in* T-10145
8,17-Epoxy-2,3,9,13,14-pentahydroxy-5,11-briaradien-18,7-olide, E-10141
4,15-Epoxy-1,6,8-trihydroxy-11(13)-eudesmen-12-oic acid; 8-(2-Hydroxymethylpropenoyl), Me ester, *in* E-10158
6-Hydroxychaparrin, H-10095
Sculponeatin D, S-10036
- C₂₀H₂₈O₁₂**
3-*O*- β -D-Glucopyranuronosyl-D-galactose; Benzyl glycoside, Me ester, *in* G-10078
- C₂₀H₂₉ClO₃**
4-Chloro-3-hydroxy-7,11,15(17)-cembratrien-16,14-olide, C-10081
- C₂₀H₂₉F₃O₂**
20-Trifluoroarachidonic acid, *in* E-10009
- C₂₀H₂₉NO₄**
Saussureamine A, S-10026
- C₂₀H₂₉NO₅**
Saussureamine D, S-10028
Saussureamine E, *in* S-10028
- C₂₀H₃₀**
1,3,13-Valparatriene, V-10011
1,3,15-Valparatriene, V-10012
- C₂₀H₃₀O**
15-Beyeren-7-one, B-10020
ent-15-Beyeren-1-one, *in* B-10018
3,7,11,15-Cembratetraen-13-one, *in* C-10054
Fusoxysporone, F-10039
1(10),15-Rosadien-2-one, R-10042
3,15-Valparadien-2-one, V-10010
2(4),13-Valparoladien-3-one, V-10015
- C₂₀H₃₀O₂**
5(4→19)-Abeo-15,16-epoxy-3,13(16),14-clerodatrien-5-ol, A-10006
3,12,14-Clerodatrien-18-oic acid, C-10104
3,13(16),14-Clerodatrien-18-oic acid, C-10105
Communic acid, *in* L-10010
15-Cupressen-19-oic acid, C-10148
Elliotinoic acid, *in* L-10010
ent-15 α ,16 α -Epoxy-1-beyeranone, *in* B-10018
3,4-Epoxy-7,11,15-cebratrien-14-one, *in* C-10055
3,4-Epoxy-7,11,15-cebratrien-13-one, E-10041
1-Hydroxy-15-beyeren-2-one, H-10087
17-Hydroxy-15-beyeren-1-one, H-10088
9-Hydroxy-8(14),15-isopimaradien-1-one, *in* I-10042
3-Hydroxy-1,4,6,10,14-phytapaentaen-13-one, H-10219
8(17),13(16),14-Labdatrien-18-oic acid, L-10009
8(17),12,14-Labdatrien-19-ol; 19-Carboxylic acid, *in* L-10010
Luffarin W, L-10078
- C₂₀H₃₀O₃**
Bershaolone, B-10016
7,8:11,12-Diepoxy-1,3,15-cebratrien-14-ol, D-10065
1,17-Dihydroxy-15-beyeren-2-one, *in* D-10117
1,19-Dihydroxy-15-beyeren-2-one, D-10116
2,17-Dihydroxy-15-beyeren-1-one, D-10117
2,19-Dihydroxy-15-beyeren-1-one, D-10118
6,9-Dihydroxy-8(14),15-isopimaradien-1-one, *in* I-10044
11,15-Dihydroxy-16-kauren-3-one, D-10187
15,16-Epoxy-13(16),14-clerodadien-18-oic acid, E-10045
14,15-Epoxy-5,8,10,12-eicosatetraenoic acid, E-10077
8,17-Epoxy-12-labdene-15,16-dial, E-10124
5,19-Epoxy-3,14-viscidadien-16-oic acid, E-10167
12-Hydroxy-7,13-abietadien-18-oic acid, H-10080
4-Hydroxy-7,11,15(17)-cembratrien-16,3-olide, H-10094
15-Hydroxy-5,8,11,13,17-eicosapentaenoic acid, H-10128
16-Hydroxy-19,20-kauranedial, H-10169
15-Hydroxy-16-kauren-19-oic acid, H-10170

- ent*-3 β -Hydroxy-16-kauren-19-oic acid, *in* K-10006
 Hypodiolide A, *in* D-10185
 8-Keto-5,9,11,14-eicosatetraenoic acid, *in* H-10129
 16-Oxo-3,12-clerodadien-15-oic acid, *in* C-10101
 5-Oxo-3,14-visedadien-16-oic acid, *in* H-10245
 Pseudoplexauric acid, *in* E-10040
 Psiadin, *in* K-10008
- C₂₀H₃₀O₄**
 8,11,13-Abietatriene-11,12,16,20-tetrol, A-10008
 Chelviolene A, C-10067
 Chelviolene B, *in* C-10067
 9,13,15,16-Diepoxy-7-hydroxy-14-labden-6-one, D-10082
 5,12-Dihydroxy-6,8,10,14,17-eicosapentaenoic acid, D-10145
 15,16-Epoxy-7,9-dihydroxy-13(16),14-labdadien-6-one, E-10067
 3,4-Epoxy-13-hydroxy-7,15(17)-cembradien-16,14-olide, E-10098
 15,16-Epoxy-15-hydroxy-3-cleroden-18,19-olide, E-10105
 7,20-Epoxy-16-kaurene-6,7,15-triol, E-10123
 13,14-Epoxy-7,8-seco-7,19-abietanolide, E-10147
 Eupestrol; 2-Ketone, 9-angeloyl, *in* E-10170
 Lapidin, *in* D-10132
 14-Serrulatene-3,7,8,20-tetrol, S-10049
 3,7,11-Trihydroxy-16-kauren-15-one, T-10154
 6,18,19-Trihydroxy-16-kauren-2-one, T-10155
- C₂₀H₃₀O₅**
 13,14-Epoxy-3-hydroxy-15-oxo-8(17)-labden-19-oic acid, E-10113
 7,20-Epoxy-16-kaurene-1,7,11,15-tetrol, E-10122
 6-Hydroxy-13-cleroden-15,16-olid-18-oic acid, H-10101
 2-Oxo-3-clerodene-15,18-dioic acid, O-10053
 1,2,7,14-Tetrahydroxy-16-kauren-15-one, T-10058
 1,7,11,14-Tetrahydroxy-16-kauren-15-one, T-10059
 2,5,9,10-Tetrahydroxy-4(20),11-taxadien-13-one, T-10070
 3,14,19-Trihydroxy-8(17),12-labdadien-16,15-olide, T-10156
- C₂₀H₃₀O₆**
 Castelalin, *in* C-10066
 Chaparrolide, C-10066
 4,18:15,16-Diepoxy-13(16),14-clerodadiene-3,6,12,19-tetrol, D-10066
 8,13-Epoxy-6,11-dihydroxy-3-oxo-15,16-clerodanolide, E-10071
 7,20-Epoxy-16-kaurene-1,6,7,11,15-pentol, E-10119
 7,20-Epoxy-16-kaurene-1,6,7,14,15-pentol, E-10120
 7,20-Epoxy-16-kaurene-3,6,7,15,19-pentol, E-10121
 5,9-Epoxy-2,12,14-trihydroxy-6,8-briaradien-18-oic acid, E-10154
 4,18-Epoxy-6,12,19-trihydroxy-13-cleroden-15,16-olide, E-10156
 Grayanotoxin XVII, *in* G-10129
 Ingol, T-10013
 3,4,6,8-Tetrahydroxy-11,13-clerodadien-15,16-olide, T-10039
- C₂₀H₃₀O₇**
 4,18:8,13-Diepoxy-6,7,19-trihydroxy-15,16-clerodanolide, D-10087
 17R,18-Dihydroelemacaranin, *in* T-10145
 7,20-Epoxy-1,6,7,11,16-pentahydroxy-15-kauranone, E-10144
 4,18-Epoxy-1,6,12,19-tetrahydroxy-13-cleroden-15,16-olide, E-10150
 19-Hydroxyingol, H-10168
 2,19:4,18:11,16:15,16-Tetraepoxy-6,7,19-clerodanetriol, T-10023
 4,18:11,16:15,16-Triepoxy-14-clerodene-2,3,6,19-tetrol, T-10122
- 6,8,15-Trihydroxy-1,3,11(13)-elematrien-12-oic acid; 8-(3-Hydroxy-2S-methylpropanoyl), Me ester, *in* T-10145
- C₂₀H₃₀O₈**
 Klaineanone; Δ^4 -Isomer, 14 β ,15 β -dihydroxy, 2 α -alcohol, *in* K-10013
- C₂₀H₃₀O₉**
 8,17-Epoxy-2,3,9,12,13,14-hexahydroxy-11-briaren-18,7-olide, E-10096
 2-O- α -L-Fucopyranosyl-L-fucose; Me glycoside, 2'-benzyl, *in* F-10023
- C₂₀H₃₀O₁₀**
 2,4,8,9,12,14-Hexahydroxy-5-briaren-18,7-olid-16-oic acid, H-10052
- C₂₀H₃₀O₁₂**
 Forsythoside E, *in* D-10235
 Verbasoside, *in* D-10235
- C₂₀H₃₁BrO₂**
 Kahukuene A, K-10001
- C₂₀H₃₁NO₆**
 7-Angelylheliotridine trachelanthate, *in* E-10004
 7-Angelylheliotridine viridiflorate, *in* E-10004
 Echiumine, E-10004
 Symlandine, *in* E-10004
 Symviridine, S-10138
- C₂₀H₃₁NO₇**
 2',3'-Epoxyechiumine, *in* E-10004
 Heliosupine, H-10011
- C₂₀H₃₂**
 1,3,7,11-Cembratetraene, C-10045
 3,7,11,15-Cembratetraene, C-10046
 12,18-Cyathadiene, C-10151
 2,13-Valparadiene, V-10005
 Valparene, V-10006
- C₂₀H₃₂Br₂O**
 Kahukuene B, K-10002
- C₂₀H₃₂ClNO₇**
 erythro-3'-Chloro-2'-hydroxyechiumine, *in* E-10004
- C₂₀H₃₂N₂O₂**
 Sollasin B, S-10074
- C₂₀H₃₂O**
 15-Beyeren-1-ol, B-10018
 15-Beyeren-12-ol, B-10019
 1,3,7,11-Cembratetraen-14-ol, C-10053
 3,7,11,15-Cembratetraen-13-ol, C-10054
 3,7,11,15-Cembratetraen-14-ol, C-10055
 2,12-Cyathadien-1-ol, C-10152
 3,7,12(18)-Dolabellatrien-13-ol, D-10303
 3,4-Epoxy-7,11,15-cembratriene, *in* C-10046
 Epoxyisoneocembrene A, *in* C-10045
 2,3-Epoxy-15-valparene, *in* V-10006
 8(17),12,14-Labdatrien-19-ol, L-10010
 7,15-Pimaradien-18-ol, P-10118
 Rippertenol, R-10036
 1,5-Valparadien-3-ol, V-10007
 2,15-Valparadien-1-ol, V-10008
 3(19),15-Valparadien-2-ol, V-10009
 15-Valparen-2-one, V-10014
- C₂₀H₃₂O₂**
 3,5,10-Bisabolatrien-12-ol; 2-Methylbutanoyl, *in* B-10033
 3,5,10-Bisabolatrien-12-ol; 3-Methylbutanoyl, *in* B-10033
 1,3,6,11-Cembratetraene-8,14-diol, C-10047
 1,3,7,10-Cembratetraene-12,14-diol, C-10048
 1,3,7,11-Cembratetraene-13,14-diol, C-10049
 1,3,7,11-Cembratetraene-14,20-diol, C-10050
 1,3,7,12(20)-Cembratetraene-11,14-diol, C-10051
 1,3,8(19),11-Cembratetraene-7,14-diol, C-10052
 7,13-Clerodadien-15-oic acid, C-10102
 3,4:15,16-Diepoxy-7,11-cembradiene, *in* C-10046
 7,8:11,12-Diepoxy-1,3-cembradiene, *in* C-10045
 \blacktriangleright 5,8,11,14-Eicosatetraenoic acid, E-10009
- 3,4-Epoxy-7,11,15-cembratrien-14-ol, *in* C-10055
 3,4-Epoxy-7,11,15(17)-cembratrien-16-ol, E-10040
 12,13-Epoxy-2-cyathen-8-ol, E-10050
 11,12-Epoxy-13-hydroxyneocembrene, *in* C-10054
 14,16-Epoxy-7-isopimaren-15-ol, E-10118
 8,13-Epoxy-14-labden-11-one, *in* E-10126
 17,18-Epoxy-8,10,13(15)-lobatrien-16-ol, E-10127
 13R-Hydroxy-8(17),14-labdadien-3-one, *in* L-10003
 3-Hydroxy-1,4,6,10-phytatetraen-13-one, *in* H-10219
 8(14),15-Isopimaradiene-1,9-diol, I-10042
 8(14),15-Isopimaradiene-3,9-diol, I-10043
 16-Kaurene-3,19-diol, K-10006
 3-Oxomanol, *in* L-10003
 1,4,6,10,14-Phytapentaene-3,13-diol, P-10109
 8(14),15-Pimaradiene-3,11-diol, P-10117
 13-Stemodene-2,19-diol, S-10113
- C₂₀H₃₂O₃**
 2,7,11-Cembratriene-4,6,10-triol; 10-Ketone, *in* C-10057
 4,6-Dihydroxy-2,7,11-cembratrien-10-one, *in* C-10057
 4,10-Dihydroxy-2,7,11-cembratrien-6-one, *in* C-10057
 15,16-Dihydroxy-3-erythroxylen-7-one, D-10156
 15,16-Dihydroxy-8(14)-isopimaren-7-one, D-10184
ent-16 β ,17-Dihydroxy-19-kauranal, *in* K-10005
 16,17-Dihydroxy-7-kauranone, *in* K-10004
 9,13-Epidioxy-11-abieten-2-ol, E-10026
 3,7-Epoxy-1,10-bisaboladien-12-ol; 3-Methylbutanoyl, *in* E-10032
 3,7-Epoxy-1,10-bisaboladien-12-ol; Pentanoyl, *in* E-10032
 1,12-Epoxy-2,7,15-cembratriene-4,11-diol, E-10039
 11,12-Epoxy-5,8,14-eicosatrienoic acid, E-10079
 14,16-Epoxy-7-isopimarene-6,15-diol, E-10117
 18-Hydroxy-3-cleroden-15,16-olide, H-10100
 8-Hydroxy-5,9,11,14-eicosatetraenoic acid, H-10129
 3 α -Hydroxyisoagatholal, *in* L-10007
 3 β -Hydroxyisoagatholal, *in* L-10007
 11-Hydroxy-14-oxo-19-chinanal, H-10206
 16-Hydroxy-4,5-seco-4(18)-rosene-5,15-dione, *in* T-10190
 5-Hydroxy-3,14-visedadien-16-oic acid, H-10245
 5-Hydroxy-3,14-visedadien-19-oic acid, H-10246
 8(14),15-Isopimaradiene-1,6,9-triol, I-10044
 Jaeschkeanadiol angelate, *in* D-10019
 16-Kaurene-2,18,19-triol, K-10008
 Leukotriene A₃, E-10078
 5-Oxo-3-visedien-16-oic acid, *in* V-10031
 2,10(18),14-Prenylguaiaatriene-4,6,13-triol, P-10150
- C₂₀H₃₂O₄**
 Cistodioic acid, *in* C-10106
 12,13:15,16-Diepoxy-3-clerodene-15,16-diol, D-10068
 6,7:18,19-Diepoxy-1(9),13-xenicadiene-18,19-diol, D-10089
 14,15-Dihydroxy-5,8,10,12-eicosatetraenoic acid, D-10146
 16,19-Dihydroxy-20-kauranic acid, D-10185
ent-16 α ,17-Dihydroxy-19-kauranic acid, *in* K-10005
ent-16 β ,17-Dihydroxy-19-kauranic acid, *in* K-10005
 6,15-Dihydroxy-8(17),13-labdadien-19-oic acid, D-10188
 5,19-Dihydroxy-3,14-visedadien-20-oic acid, D-10263
 1(15),8-Dolastadiene-4,7,10,14-tetrol, D-10304
 15,16-Epoxy-3,12-clerodadiene-14,15,16-triol, E-10043
 15,16-Epoxy-4(18),12-clerodadiene-14,15,16-triol, E-10044

- 6,13-Epoxy-4,12-dihydroxy-7-eunicellen-9-one, E-10065
Eupestrol; 9-Angeloyl, *in* E-10170
1(10)-Halimene-15,19-dioic acid, H-10001
Haplociliatic acid, *in* C-10106
15-Hydroperoxy-5,8,11,13-eicosatetraenoic acid, H-10077
8-Hydroxy-11,12-epoxy-5,9,14-eicosatrienoic acid, H-10130
Lapidol; 6-(2-Methylbutanoyl), *in* D-10132
2,10(18),14-Prenylguaiatriene-4,6,9,12-tetrol, P-10145
3,10(18),13-Prenylguaiatriene-6,9,12,15-tetrol, P-10146
3,10(18),14-Prenylguaiatriene-6,9,12,13-tetrol, P-10147
4(17),10(18),14-Prenylguaiatriene-3,6,9,12-tetrol, P-10148
4(17),10(18),15-Prenylguaiatriene-6,9,12,14-tetrol, P-10149
- C₂₀H₃₂O₅**
7,8,9,13-Diepoxy-17-hydroxy-15-labdanoic acid, D-10081
9,11-Dihydroxy-15-oxo-5,13-prostadienoic acid, D-10222
11,15-Dihydroxy-9-oxo-5,13-prostadienoic acid, D-10223
2,10(18),14-Prenylguaiatriene-4,6,9,12,13-pentol, P-10143
4(17),10(18),14-Prenylguaiatriene-3,6,9,12,13-pentol, P-10144
- C₂₀H₃₂O₆**
Grayanotoxin V, *in* G-10129
16-Kaurene-1,3,6,7,11,15-hexol, K-10007
4(20),11-Taxadiene-1,2,5,9,10,13-hexol, T-10006
4(20),11-Taxadiene-1,5,7,9,10,13-hexol, T-10007
- C₂₀H₃₂O₇**
2,3-Epoxy-5,6,7,10,14,16-grayanotoxanehexol, E-10091
5,20-Epoxy-11-taxene-1,2,7,9,10,13-hexol, E-10148
8,13-Epoxy-3,4,6,11-tetrahydroxy-15,16-clerodanolide, E-10149
4(20),11-Taxadiene-1,2,5,7,9,10,13-heptol, T-10005
2,19:4,18:15,16-Triepoxy-6,7,16,19-clerodanetetrol, T-10121
- C₂₀H₃₂O₈**
2,3-Epoxy-5,6,7,9,10,14,16-grayanotoxaneheptol, E-10090
Ryanodol, R-10064
- C₂₀H₃₂O₉**
Cassioside†, C-10031
- C₂₀H₃₃N**
Irniine, I-10020
- C₂₀H₃₃NO₆**
Punctancine, P-10172
- C₂₀H₃₃NO₈**
threo-2",3"-Dihydroxyechiumine, *in* E-10004
- C₂₀H₃₄N₄O₂**
Buchnerine, B-10050
- C₂₀H₃₄O**
Barekoxide, B-10009
3,7,11-Cembratrien-1-ol, C-10060
4(18),14-Clerodien-13-ol, C-10103
2-Valparen-15-ol, V-10013
Zaatirin, Z-10001
- C₂₀H₃₄O₂**
Barbifusococcin A, B-10007
Barbifusococcin B, B-10008
15-Cembrene-6,11-dione, C-10061
3,12-Clerodadiene-15,16-diol, C-10101
2,4,16-Eicosatrienoic acid, E-10010
8,13-Epoxy-14-labden-1-ol, E-10125
8,13-Epoxy-14-labden-11-ol, E-10126
16-Hydroxy-3-visciden-5-one, *in* V-10031
7-Isopimarene-15,16-diol, I-10045
16,17-Kauranediol, K-10003
7,14-Labdadiene-2,13-diol, L-10001
8(17),13(16)-Labdadiene-14,15-diol, L-10002
8(17),14-Labdadiene-3,13-diol, L-10003
8(17),14-Labdadiene-13,18-diol, L-10004
1,6,10,14-Phytatetraene-3,5-diol, P-10110
1,6,10,14-Phytatetraene-3,17-diol, P-10111
Rigidol, R-10035
1(10)-Rosene-15,16-diol, R-10044
Setiformenol, E-10038
- C₂₀H₃₄O₃**
2,7,11-Cembratriene-1,4,14-triol, C-10056
2,7,11-Cembratriene-4,6,10-triol, C-10057
2,7,11-Cembratriene-4,6,13-triol, C-10058
2,7,11-Cembratriene-4,6,20-triol, C-10059
Cyclooctatin, C-10169
11,12-Dihydroxy-1,3-cembradien-7-one, D-10124
1,12-Epoxy-2,7-cembradiene-4,11-diol, *in* E-10039
7,11-Epoxy-1,3-cembradiene-8,12-diol, E-10036
8,11-Epoxy-1,3-cembradiene-7,12-diol, E-10037
15,16-Epoxy-3-clerodene-15,18-diol, E-10048
4(18)-Erythroxylyene-7,15,16-triol, E-10195
4(18)-Erythroxylyene-11,15,16-triol, E-10196
ent-18-Hydroxy-3-clerodene-15-oic acid, *in* C-10106
5-Hydroxy-3-visciden-16-oic acid, *in* V-10031
Jaeschkeanadiol; 6-(2-Methylbutanoyl), *in* D-10019
Jaeschkeanadiol; 6-(3-Methylbutanoyl), *in* D-10019
7,16,17-Kauranetriol, K-10004
16,17,19-Kauranetriol, K-10005
8(17),13-Labdadiene-2,15,19-triol, L-10005
8(17),13-Labdadiene-3,6,10-triol, L-10006
8(17),13-Labdadiene-3,15,19-triol, L-10007
12,14-Labdadiene-6,7,8-triol, L-10008
8,10,13(15)-Lobatriene-16,17,18-triol, L-10058
1(10)-Rosene-11,15,16-triol, R-10045
4,15,16-Trihydroxy-4,5-seco-4(18)-rosen-5-one, *in* T-10190
- C₂₀H₃₄O₄**
6-Acetoxylinoleic acid, *in* H-10197
1,11,15,16-Devadaranetetrol, D-10043
5,6-Dihydroxy-8,11,14-eicosatrienoic acid, D-10147
8,9-Dihydroxy-5,11,14-eicosatrienoic acid, D-10149
14,15-Dihydroxy-5,8,11-eicosatrienoic acid, D-10150
6,15-Dihydroxy-8(17)-labden-19-oic acid, D-10189
15,16-Epoxy-3-clerodene-7,15,18-triol, E-10049
6,13-Epoxy-8(19)-eunicellene-4,9,12-triol, E-10084
4,18-Epoxy-16-hydroxy-4,5-seco-5-rosanone, *in* T-10190
4(18)-Erythroxylyene-1,11,15,16-tetrol, E-10194
Ferutriol; 6-(3-Methylbutanoyl), *in* D-10021
Leukotriene B₃, D-10148
Pallinol; 6-(2-Methylbutanoyl), *in* D-10020
- C₂₀H₃₄O₆**
9,11-Dihydroxy-15-oxothrombox-5-en-1-oic acid, *in* T-10086
3,5,6,10,14,16-Grayanotoxanehexol, G-10129
Thromboxane B₂, T-10086
- C₂₀H₃₄O₈**
11-Taxen-2,4,5,7,9,10,13,20-octol, T-10010
- C₂₀H₃₅NO₁₃**
Viridotriose B, V-10028
- C₂₀H₃₅NO₁₆**
2-Acetamido-2-deoxy-β-D-glucopyranosyl-(1→3)-β-D-galactopyranosyl-(1→4)-D-glucose, *in* A-10068
β-D-Glucopyranosyl-(1→3)-2-acetamido-2-deoxy-β-D-glucopyranosyl-(1→3)-D-galactose, *in* G-10005
- C₂₀H₃₆O₂**
3-Clerodene-15,18-diol, C-10106
Luffarin X, P-10113
5,16-Rosanediol, R-10043
3-Visciden-5,16-diol, V-10031
- C₂₀H₃₆O₃**
3-Clerodene-15,16,18-triol, C-10108
13-Clerodene-15,16,18-triol, C-10109
8(17)-Labdene-6,15,19-triol, L-10011
12-Labdene-9,14,15-triol, L-10012
1,6,10-Phytatriene-3,14,15-triol, P-10112
- C₂₀H₃₆O₄**
3-Clerodene-7,15,16,18-tetrol, C-10107
1,6,10-Phytatriene-3,5,14,15-tetrol, *in* P-10112
4,15,16-Trihydroxy-4,5-seco-5-rosanone, T-10190
- C₂₀H₃₆O₅**
6,13-Epoxy-4,8,9,12-eunicellanetetrol, E-10083
4,5,16,18-Tetrahydroxy-4,5-seco-5-rosanone, *in* T-10190
- C₂₀H₃₆O₁₂**
Acaciabiuronic acid; Me glycoside, hexa Me, Me ester, *in* A-10011
3-O-α-D-Glucopyranuronosyl-D-galactose; Me glycoside, hexa-Me ether, Me ester, *in* G-10076
4-O-α-D-Glucopyranuronosyl-D-galactose; Me glycoside, hexa-Me, Me ester, *in* G-10077
2-O-β-D-Glucopyranuronosyl-D-mannose; Me glycoside, hexa-Me, 6'-Me ester, *in* G-10083
- C₂₀H₃₆O₁₅**
3-O-Methyl-β-D-galactopyranosyl-(1→4)-3-O-methyl-β-D-galactopyranosyl-(1→4)-L-rhamnose, *in* G-10010
- C₂₀H₄₂O₄**
1,2,3,4-Eicosanetetrol, E-10008
- C₂₁H₁₆O₈**
5,6-Dimethoxypongapin, *in* B-10014
Lucidin†; Tri-Ac, *in* D-10180
1,3,8-Trihydroxy-2-methylanthraquinone; Tri-Ac, *in* T-10161
- C₂₁H₁₈O₄**
3,5-Dibenzoyloxybenzoic acid, *in* D-10110
5-Methoxy-6,6-dimethylpyranof[2,3:7,6] flavone, *in* H-10113
- C₂₁H₁₈O₅**
Ovalichromene B, *in* O-10050
- C₂₁H₁₈O₉**
Steffimycinone, *in* S-10109
Vesuvianic acid, *in* S-10118
- C₂₁H₁₈O₁₂**
Luteolin; 3'-O-β-D-Galacturonoside, *in* T-10052
Luteolin; 7-O-β-D-Galacturonoside, *in* T-10052
Luteolin; 3'-O-β-D-Glucuronoside, *in* T-10052
Luteolin; 4'-O-β-D-Glucuronoside, *in* T-10052
Luteolin; 5-O-β-D-Glucuronoside, *in* T-10052
Luteolin; 7-O-β-D-Glucuronoside, *in* T-10052
- C₂₁H₁₈O₁₅S**
Luteolin; 7-O-(Sulfoxyglucuronoside), *in* T-10052
- C₂₁H₁₉NO₇**
Narlumidine, N-10006
- C₂₁H₁₉N₃O₂**
16-Carbomethoxyaufoline, *in* N-10010
- C₂₁H₂₀N₂O₄**
Vallesiachotamine lactone, V-10004
- C₂₁H₂₀O₄**
Curcumin III, C-10149
- C₂₁H₂₀O₅**
Ovaliflavanone C, *in* T-10189
- C₂₁H₂₀O₆**
Topazolin, *in* T-10067
- C₂₁H₂₀O₇**
Feudomycinone A, *in* F-10007
1-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol; 3,7-Dibenzoyl, *in* H-10180
Piperenol A, *in* H-10181
Piperenol B, *in* H-10180

- C₂₁H₂₀O₈**
Piscerythrol, P-10122
- C₂₁H₂₀O₉**
Hemidesmin 1, H-10012
Macrophylloside†, in D-10164
- C₂₁H₂₀O₁₀**
Afzelin, A-10030
Isoneoavroside, in N-10012
Isoneovitexin, in N-10023
Luteolin; 3'-O-α-L-Rhamnopyranoside, in T-10052
Luteolin; 7-O-α-L-Rhamnopyranoside, in T-10052
Neoavroside, N-10012
Neovitexin, N-10023
Rheinanthrone; O-Glucoside, in D-10094
- C₂₁H₂₀O₁₁**
Chaerophyllin†, in T-10052
Dracocephalosite, in T-10052
Galuteolin, in T-10052
Glucoluteolin, in T-10052
Juncein†, in T-10052
Luteolin; 5-O-β-D-Galactopyranoside, in T-10052
Luteolin; 7-O-β-D-Galactopyranoside, in T-10052
Paspalosite, in T-10052
Populin, P-10133
Quercetin 3-O-α-L-Rhamnofuranoside, Q-10006
Trifolin†, T-10123
- C₂₁H₂₀O₁₂**
Incarnatrin, I-10004
- C₂₁H₂₀O₁₃**
Atyloside, in H-10056
- C₂₁H₂₀O₁₃S**
Afzelin; O'-Sulfate, in A-10030
- C₂₁H₂₀O₁₄S**
Luteolin; 3'-O-β-D-Glucopyranoside, 7-O-sulfate, in T-10052
Luteolin; 7-O-(Sulfoxyglucoside), in T-10052
- C₂₁H₂₀O₁₇S₂**
Luteolin; 7-O-(Disulfoglucoside), in T-10052
- C₂₁H₂₁NO₅**
Oxypalmatine, O-10064
- C₂₁H₂₁NO₇**
Narlumicine, in N-10006
- C₂₁H₂₁N₃O₂**
16-Carbomethoxy 18,19-dihydranaufoline, in N-10010
- C₂₁H₂₂N₂O₃**
Scandine, S-10030
- C₂₁H₂₂N₂O₄**
14,15-Epoxy scandine, in S-10030
10-Hydroxyscandine, in S-10030
Lapidilectine B, L-10026
5-Oxo-19,20-dehydroervatamine, in E-10191
- C₂₁H₂₂O₃**
Isoderricin A, in H-10222
- C₂₁H₂₂O₄**
2-Hydroxy-4-methoxy-3-(3-methyl-2-butenyl)-6-(2-phenylethenyl)benzoic acid, in D-10249
6-Hydroxy-4-methoxy-3-(3-methyl-2-butenyl)-2-(2-phenylethenyl)benzoic acid, in D-10250
2-Prenylphyscion anthrone, in T-10165
- C₂₁H₂₂O₆**
Croverin, in D-10067
Ribitol; 2,3:4,5-Di-O-benzylidene, 1-Ac, in R-10032
- C₂₁H₂₂O₇**
4,5-Demethylene-7-deoxypodophyllotoxin, D-10035
Topazolin hydrate, in T-10067
- C₂₁H₂₂O₈**
1,2,4,5,6,7-Hexamethoxy-3-methylantraquinone, in H-10057
- C₂₁H₂₂O₉**
1,8-Dihydroxy-3-(hydroxymethyl)-9(10H)-anthracenone; O-Glucoside, in D-10179
4'-Hydroxy-3,3',5,5',6,7-hexamethoxyflavone, in H-10026
5-Hydroxy-3,3',4',5',6,7-hexamethoxyflavone, in H-10026
- C₂₁H₂₂O₁₁**
Astilbin, in P-10050
Isoastilbin, in P-10050
Marein, in P-10040
Neoastilbin, in P-10050
Neoisoastilbin, in P-10050
Okainin; 3'-O-β-D-Glucopyranoside, in P-10040
- C₂₁H₂₂O₁₂**
Dihydrohyperin, in P-10050
Glucodistylin, in P-10050
Isoglucodistylin, in P-10050
Taxifolin; 5-O-β-D-Galactopyranoside, in P-10050
Taxifolin; 7-O-β-D-Galactopyranoside, in P-10050
Taxifolin; 7-O-α-D-Glucopyranoside, in P-10050
Taxifolin; 3'-O-β-D-Glucopyranoside, in P-10050
Taxifolin; 7-O-β-D-Glucopyranoside, in P-10050
Taxifolin 4'-glucoside, in P-10050
- C₂₁H₂₃Br₄N₃O₅**
Hexadellin A, H-10045
- C₂₁H₂₃NO₄**
Thalichtherine, T-10082
- C₂₁H₂₃NO₅**
Thalichtherine N-oxide, in T-10082
Thalimonine, T-10083
- C₂₁H₂₃NO₆**
N-Deacetyl-N-formyl-β-lumicolchicine, in L-10082
N-Deacetyl-N-formyl-γ-lumicolchicine, in L-10082
2-O-Demethyl-β-lumicolchicine, in L-10082
3-O-Demethyl-β-lumicolchicine, in L-10082
2-O-Demethyl-γ-lumicolchicine, in L-10082
3-O-Demethyl-γ-lumicolchicine, in L-10082
8-Oxothaicanine, in T-10081
- C₂₁H₂₄NO₅[⊕]**
Fumaritine N-methosalt, in F-10027
- C₂₁H₂₄N₂O₂**
Vindolinine, V-10024
19S-Vindolinine, in V-10024
- C₂₁H₂₄N₂O₃**
19,20-Didehydroervatamine, in E-10191
Ervincine, in P-10116
16β-Hydroxy-19R-vindolinine, in V-10024
16β-Hydroxy-19S-vindolinine, in V-10024
3-Oxovincadifformine, in V-10022
5-Oxovincadifformine, in V-10022
Rhazimol, in A-10036
19S-Vindolinine N-oxide, in V-10024
- C₂₁H₂₄N₂O₄**
Ercinamine, in A-10036
Gambirdine, in M-10082
Isogambirdine, in M-10082
Isomitraphylline, in M-10082
Mitraphylline, M-10082
Ornithine; N⁷,N⁶-Dibenzoyl, Et ester, in O-10049
Uncarine, U-10005
- C₂₁H₂₄N₂O₅**
Isomitraphylline N-oxide, in M-10082
Isopteropodine N-oxide, in U-10005
Mitraphylline N-oxide, in M-10082
Pteropodine N-oxide, in U-10005
Speciophylline N-oxide, in U-10005
Uncarine F N-oxide, in U-10005
- C₂₁H₂₄N₂O₆**
Ornithine; N⁷,N⁶-Bis(benzyloxycarbonyl), in O-10049
- C₂₁H₂₄O₃**
Spiranthol B, in D-10104
- C₂₁H₂₄O₄**
2-Hydroxy-4-methoxy-6-(2-phenylethyl)-3-prenylbenzoic acid, in D-10236
- C₂₁H₂₄O₅**
Glyasperin C, in T-10068
Vismione E, in V-10032
- C₂₁H₂₄O₆**
Armenin B, A-10124
Dihydrocroverin, in D-10067
Penicillide, P-10025
Tinophyllone, in E-10101
- C₂₁H₂₄O₇**
Medioresinol, M-10024
Taxifolial B, T-10012
- C₂₁H₂₄O₈**
1,4-Epoxy-8,10,13-trihydroxy-1,5,7(11)-germacatrien-12,6-olide; 8-(2-Methylpropenyl), 13-Ac, in E-10159
9α-Hydroxymedioresinol, in M-10024
- C₂₁H₂₄O₉**
1,10:4,5-Diepoxy-8,13,14-trihydroxy-2,7(11)-germacadien-12,6-olide; 8-(2-Methylpropenyl), 13-Ac, in D-10088
- C₂₁H₂₄O₁₀**
Dehydrobruceolide, D-10029
- C₂₁H₂₄O₁₁**
Roccellin, in D-10133
- C₂₁H₂₄O₁₂**
2-(3,4-Dihydroxyphenyl)ethanol; 4-O-(6-O-Galloyl-β-D-glucopyranoside), in D-10235
- C₂₁H₂₅NO₄**
Coryphenanthrine, in M-10069
Thaliporphinemethine, in M-10069
- C₂₁H₂₅NO₅**
Thaicanine, T-10081
Thaicanine; (S)-form, in T-10081
- C₂₁H₂₆ClNO₈**
Romneine; N-Me, perchlorate, in R-10041
- C₂₁H₂₆INO₄**
Romneine; N-Me, iodide, in R-10041
- C₂₁H₂₆NO₄[⊕]**
Escholinine, in R-10041
β-N-Methylisocorypalminium, in I-10029
- C₂₁H₂₆N₂O₂**
Ervamine, in V-10022
Pseudokopsinine, in V-10024
Vincadifformine, V-10022
- C₂₁H₂₆N₂O₃**
Deacetyl-1,2β-dihydroaummiline, in A-10036
17-Demethoxyisorhynchophylline, in R-10031
Dimethoxyeburnamonine, in E-10002
20-Epiervatamine, in E-10191
Ervatamine, E-10191
11-Hydroxyvincadifformine, in V-10022
15β-Hydroxyvincadifformine, in V-10022
- C₂₁H₂₆N₂O₄**
Isorhynchophyllic acid, in R-10031
Rhynchophyllic acid, in R-10031
- C₂₁H₂₆O₃**
Untenospongine C, U-10010
- C₂₁H₂₆O₄**
Kurchinin; Ac, in H-10083
- C₂₁H₂₆O₅**
Cyrtophyllone A, C-10173
3,4-Dihydroxy-20-oxopregna-5,16-dien-19,2-olide, in T-10181
- C₂₁H₂₆O₆**
Biondinin A, B-10024

- 3,6-Dihydroxyfuranoteremophil-1(10)-en-9-one; 3,6-Dipropanoyl, *in* D-10170
1,10-Epoxyfuranoteremophilane-3,6-diol; 3-(2-Methyl-2-propenoyl), 6-Ac, *in* E-10085
12-Methoxy-6,11,14-trioxo-8,12-abietadien-18-oic acid, *in* H-10237
Tinophyllol, *in* E-10101
- C₂₁H₂₆O₇**
Borapetol B, *in* E-10062
8,10-Dihydroxy-1-oxo-2,11(13)-germacradien-12,6-olide; 8-(2-Methylpropenoyl), 10-Ac, *in* D-10220
6-Hydroxy- $\Delta^{7,14}$ -caulerpenyne, H-10093
Taxifolial C, T-10013
Teupernin D†, *in* E-10061
- C₂₁H₂₆O₈**
Coleon I', *in* T-10125
- C₂₁H₂₆O₉**
1,10:4,5-Diepoxy-8,13,14-trihydroxy-2,7(11)-germacradien-12,6-olide; 8-(2-Methylpropenoyl), 13-Ac, *in* D-10088
17,18-Epoxyvernonatolide, *in* D-10088
Piptocarphin A, *in* E-10151
- C₂₁H₂₆O₁₀**
8 β -Acetoxy-10 β -hydroxyhirsutinolide 1,13-O-diacetate, *in* E-10151
8 β ,10 β -Diacetoxyhirsutinolide 13-O-acetate, *in* E-10151
- C₂₁H₂₆O₁₄**
3,7-Dihydroxy-4H-1-benzopyran-4-one; Di- β -D-glucopyranoside, *in* D-10111
- C₂₁H₂₇NO₅**
Stephodeline, *in* T-10002
Tannagine, T-10002
- C₂₁H₂₈O₂**
Helioporin E, H-10010
Helioporin F, *in* H-10009
Helioporin G, *in* H-10009
Riccardiphenol A, R-10033
- C₂₁H₂₈O₃**
Furanoeremophil-1(10)-en-3-ol; 3-(3-Methyl-2-pentenoyl), *in* F-10032
Helioporin A, *in* H-10010
Helioporin C, *in* H-10008
Montbretyl 12-methyl ether, *in* M-10088
Triptoditerpenic acid B, *in* A-10007
- C₂₁H₂₈O₄**
3,4-Dihydroxypregna-5,17-dien-19,2-olide, *in* T-10184
3,4-Dihydroxypregna-5,20-dien-19,2-olide, *in* T-10185
5,6-Epoxy-4-hydroxypregna-2-ene-1,20-dione, E-10115
Furanoeremophil-1(10)-ene-3,6-diol; 6-(3-Methyl-2-pentenoyl), *in* F-10030
6-Hydroxyfuranoteremophilan-9-one; 3-Methyl-2-pentenoyl, *in* H-10148
Triandrin B, T-10103
- C₂₁H₂₈O₅**
1,10-Epoxyfuranoteremophilane-6,9-diol; 6-(3-Methyl-2-pentenoyl), *in* E-10086
Furanoeremophil-1(10)-ene-3,6-diol; 6-(2-Methylpropenoyl), 3-Ac, *in* F-10030
Glaucogenin C, G-10039
3,8,14-Trihydroxypregna-5,11-dien-18,20-olide, T-10186
- C₂₁H₂₈O₆**
Angustifolin†, *in* S-10059
12 α -Hydroxy-13,18-dehydroparain, *in* N-10025
16-Hydroxy-17-methoxyrosmanol, *in* P-10037
Hyperirreflexolide A, H-10247
Hyperirreflexolide B, *in* H-10247
Isoparaine, *in* N-10025
2,3,4-Trihydroxy-20-oxopregna-5,16-dien-19-oic acid, T-10181
- C₂₁H₂₈O₇**
Lecocarpinolide J, *in* T-10178
9,12,14-Trihydroxy-3(15)-longipinen-4-one; Tri-Ac, *in* T-10159
9,12,14-Trihydroxy-3(15)-longipinen-4-one; Tri-Ac, *in* T-10159
- C₂₁H₂₈O₈**
Piptocarphin F, *in* E-10151
Prostatolide; 6-(Methylpropenoyl), 1-Ac, *in* T-10049
3,8,10-Trihydroxy-1-oxo-11(13)-germacren-12,6-olide; 8-(2-Methylpropenoyl), 10-Ac, *in* T-10179
- C₂₁H₂₈O₉**
Crepiside E, *in* D-10175
Piptocarphin; 1-Et ether, 8,13-di-Ac, *in* E-10151
8-Propionoyloxy-10 β -hydroxy-1-O-methylhirsutinolide 13-O-acetate, *in* E-10151
- C₂₁H₂₈O₁₁**
1,4,5,8,10,13-Hexahydroxy-7(11)-muurolen-12,6-olide; 5,8,10-Tri-Ac, *in* H-10058
- C₂₁H₂₉NO₂**
Kurchinidine, K-10017
- C₂₁H₂₉NO₆**
Ipanguline A, I-10018
Isoipanguline A, *in* I-10018
- C₂₁H₂₉NO₈**
Tripterregelina A, *in* H-10054
- C₂₁H₂₉N₂O₆**[⊕]
10-Methoxy-4-methylgeissoschizol, *in* H-10149
- C₂₁H₃₀O₂**
Helioporin D, H-10009
- C₂₁H₃₀O₃**
Furanoeremophil-1(10)-en-3-ol; 3-(3-Methylpentanoyl), *in* F-10032
Helioporin B, H-10008
3-Hydroxypregna-5-ene-7,20-dione, H-10221
- C₂₁H₃₀O₄**
Furanoeremophilane-1,10-diol; 1-(3-Methyl-2-pentenoyl), *in* F-10029
O-Geranylisanapyl alcohol, *in* S-10065
6-Hydroxyfuranoteremophilan-9-one; 3-Methylpentanoyl, *in* H-10148
12-Isoprenyl-3-cedrene-14,19-dioic acid; 19-Me ester, *in* I-10046
Tinotufolin A, *in* E-10100
Vallartanone A, V-10002
- C₂₁H₃₀O₅**
1,10-Epoxyfuranoteremophilane-3,6-diol; 6-(3-Methylpentanoyl), *in* E-10085
Esquirolin D, E-10197
2,3,4-Trihydroxypregna-5,17-dien-19-oic acid, T-10184
2,3,4-Trihydroxypregna-5,20-dien-19-oic acid, T-10185
3,8,14-Trihydroxypregna-5-en-18,20-olide, T-10188
- C₂₁H₃₀O₆**
Nigakilactone A, N-10025
- C₂₁H₃₀O₇**
3,8,10-Trihydroxy-1-oxo-11(13)-germacren-12,6-olide; 3-Me ether, 8-angeloyl, *in* T-10179
- C₂₁H₃₀O₈**
Prostatolide; 6-(Methylpropenoyl), 1-Ac, *in* T-10049
Sonchuside D, *in* H-10140
- C₂₁H₃₀O₁₃**
Acetylbarlerin, *in* S-10057
Teucardoside, *in* T-10079
2',4',6'-Trihydroxyacetophenone; 4'-Me ether, 2'-O-rutinoside, *in* T-10129
- C₂₁H₃₀O₁₄**
Echisoside, *in* T-10129
Hyrcanoside, *in* T-10129
- C₂₁H₃₀O₁₆**
Chironioside, *in* S-10136
- C₂₁H₃₁NO₃**
Dehydrocardiopetaline, D-10030
Joalin, J-10005
- C₂₁H₃₁NO₄**
Graciline, *in* P-10036
- C₂₁H₃₁NO₅S**
13-[(2-Amino-2-carboxyethyl)thio]-14-hydroxy-4,7,9,11-octadecatetraenedioic acid, A-10058
- C₂₁H₃₁NO₈S**
11-[(2-Amino-2-carboxyethyl)thio]-12-hydroxy-5,7,9-hexadecatetraenedioic acid; N-Ac, *in* A-10057
- C₂₁H₃₂**
3,6,9,12,15,18-Heneicosahexaene, H-10014
- C₂₁H₃₂N₂O₆**
Antibiotic Y 05460MA, A-10104
- C₂₁H₃₂O₂**
3,13(16),14-Clerodatrien-18-oic acid; Me ester, *in* C-10105
- C₂₁H₃₂O₃**
3,5-Dihydroxypregna-20-en-6-one, D-10244
3,6-Dihydroxypregna-9(11)-en-20-one, D-10245
Fulvanin 2, F-10026
14,15-Leukotriene A₆; Me ester, *in* E-10077
Mahubynolide, M-10004
- C₂₁H₃₂O₄**
Cheloviolene D, C-10069
Cheloviolene E, C-10070
15,16-Epoxy-15-methoxy-3-cleroden-18,19-olide, *in* E-10105
Schistochilic acid A, S-10034
- C₂₁H₃₂O₅**
Deacetylajugarin IV, *in* H-10101
Schistochilic acid C, *in* O-10053
Tenacigenin A, T-10016
3,8,12,14-Tetrahydroxypregna-5-en-20-one, T-10066
Umbraculumin B, U-10004
- C₂₁H₃₂O₆**
3,8,12,14,17-Pentahydroxypregna-5-en-20-one, P-10059
Planaxool, P-10123
- C₂₁H₃₂O₇**
7-Hydroxymethyl-3,11-dimethyl-2,6,9-dodecatriene-1,5,11-triol; 1,5,14-Tri-Ac, *in* H-10183
7-Hydroxymethyl-3,11-dimethyl-2,6,11-dodecatriene-1,5,10-triol; 1,5,14-Tri-Ac, *in* H-10184
- C₂₁H₃₂O₈**
Abscisic alcohol; 11-O- β -D-Glucopyranoside, *in* A-10010
Cryptoporic acid A; Parent acid, 15-hydroxy, *in* C-10137
Ratibinolide III, *in* H-10153
Sonchuside A, *in* H-10151
Sonchuside C, *in* H-10144
- C₂₁H₃₂O₁₀**
Plucheoside C, *in* I-10048
- C₂₁H₃₂O₁₂**
Cistanoside E, *in* D-10235
- C₂₁H₃₃NO₆**
7-Angelylheliotrine, *in* L-10032
- C₂₁H₃₃NO₇**
▷ Lasiocarpine, L-10032
- C₂₁H₃₃NO₈**
▷ Lasiocarpine N-oxide, *in* L-10032
- C₂₁H₃₄N₂O₂**
Sollasin C, S-10075
- C₂₁H₃₄O₂**
Arachidonic acid; Me ester, *in* E-10009
- C₂₁H₃₄O₃**
15-Acetoxy-17-nor-8-labden-7-one, *in* H-10194
3-(15-Hexadecynylidene)dihydro-4-hydroxy-5-methyl-2(3H)-furanone, H-10044
8-Hydroxy-5,9,11,14-eicosatetraenoic acid; Me ester, *in* H-10129
5-Hydroxy-3,14-viscidadien-19-oic acid; Me ester, *in* H-10246

- Isomahubenolide, *in* M-10004
 Leukotriene A₃; Me ester, *in* E-10078
 Mahubenolide, *in* M-10004
 Pregn-5-ene-3,14,20-triol, P-10139
 Pregn-5-ene-3,17,20-triol, P-10140
 Pregn-9(11)-ene-3,6,20-triol, P-10141
- C₂₁H₃₄O₄**
 15-Hydroperoxy-5,8,11,13-icosatetraenoic acid; Me ester, *in* H-10077
 Methyl 8-hydroxy-10-[3-(2-octenyl)oxiranyl]-5,9-decadienoate, *in* H-10130
 Schistochilic acid B, *in* C-10106
 2,3,4-Trihydroxypregnan-16-one, T-10187
- C₂₁H₃₄O₅**
 ▶ Allopertusaric acid, *in* M-10093
 Betaenone C, *in* B-10017
 Dehydroconstipatic acid, *in* I-10037
 Isomuronic acid, I-10037
 Muronic acid, *in* M-10093
- C₂₁H₃₄O₆**
 Protopraesorediosic acid, P-10156
 Thromboxane B₂; 11-Dehydro, Me ester, *in* T-10086
- C₂₁H₃₆O₂**
ent-16 α -Methoxy-17-kauranol, *in* K-10003
- C₂₁H₃₆O₃**
 Dihydromahubenolide A, *in* H-10044
 Dihydromahubenolide B, *in* H-10044
 15,16-Epoxy-15-methoxy-3-cleroden-18-ol, *in* E-10048
 Isodihydromahubenolide A, *in* H-10044
 Isodihydromahubenolide B, *in* H-10044
 Isomahubanolid, *in* M-10004
 Mahubanolid, *in* M-10004
- C₂₁H₃₆O₄**
ent-15,16-Epoxy-15-methoxy-3-clerodene-7,18-diol, *in* E-10049
- C₂₁H₃₆O₅**
 Constipatic acid, *in* I-10037
 Dihydropertusaric acid, *in* M-10093
 Murolic acid, M-10093
 Neupogolic acid, *in* I-10037
 Pregnane-3,12,14,17,20-pentol, P-10138
- C₂₁H₃₆O₆**
 Betaenone D, B-10017
- C₂₁H₃₆O₇**
 Atractyloside C, *in* E-10218
- C₂₁H₃₆O₈**
 Atractyloside G, *in* E-10222
- C₂₁H₃₆O₁₀**
 Atractyloside A, *in* G-10132
 Kenposide B, *in* L-10033
 Shionoside A, *in* D-10269
- C₂₁H₃₈N₂O₂**
 3,20-Diaminopregnane-2,4-diol, D-10048
- C₂₁H₃₈O₃**
 Dihydromahubanolid A, *in* H-10044
 Dihydromahubanolid B, *in* H-10044
 Isodihydromahubanolid A, *in* H-10044
 Isodihydromahubanolid B, *in* H-10044
- C₂₁H₃₈O₅**
 Neodihydromurolic acid, *in* M-10093
- C₂₁H₃₉NO₆**
 Sphingofungin F, *in* S-10087
- C₂₁H₃₉NO₇**
 Sphingofungin E, S-10087
- C₂₁H₄₀O₃**
 5-Oxoheneicosanoic acid, O-10057
- C₂₁H₄₂O**
 Alfalfone, A-10042
- C₂₁H₄₂O₃**
 14-Hydroxyheneicosanoic acid, H-10156
 15-Hydroxyheneicosanoic acid, H-10157
- C₂₂H₁₄O₇**
 Spiromentin D, S-10098
- C₂₂H₁₆O₈**
 Torosafflavone C, T-10093
- C₂₂H₁₆O₉**
 BL V, *in* P-10056
 6-(3,4-Dihydroxyphenyl)-6a,12b-dihydro-3,10,11,12-tetrahydroxy[2]benzopyrano[3,4-c][1]benzopyran-8(6*H*)-one, D-10232
- C₂₂H₁₆O₁₀**
 6a,12b-Dihydro-3,10,11,12-tetrahydroxy-6-(3,4,5-trihydroxyphenyl)[2]benzopyrano[3,4-c][1]benzopyran-8(6*H*)one, *in* D-10232
- C₂₂H₁₈O₁₁**
 3-*O*-Demethyltetracenomyacin C, *in* T-10021
- C₂₂H₁₉NO₆S**
 Xestoquinolide B, X-10009
- C₂₂H₂₀N₂O₈**
 Scabrosine; Di-Ac, *in* S-10029
- C₂₂H₂₀O₄**
 3,5-Dihydroxybenzoic acid; Dibenzyl ether, Me ester, *in* D-10110
- C₂₂H₂₀O₆**
 Ovalichromene A†, O-10050
- C₂₂H₂₀O₁₂**
 Luteolin; 7-*O*- β -D-Glucuronoside, Me ester, *in* T-10052
- C₂₂H₂₂O₅**
 Curcumin II, *in* C-10149
O-Methylvaliflavanone C, *in* T-10189
 Ponganone I, P-10131
- C₂₂H₂₂O₉**
 1,3,8-Trihydroxy-2-methylanthraquinone; 8-Me ether, 3-*O*- α -L-rhamnopyranoside, *in* T-10161
- C₂₂H₂₂O₁₀**
 Genkwaniin; 4'-*O*- β -D-Galactopyranoside, *in* D-10195
 Glucogenkwaniin, *in* D-10195
 Phegopolin, *in* D-10195
- C₂₂H₂₂O₁₁**
 Setaricin, *in* T-10140
- C₂₂H₂₂O₁₄**
 1,3-Hexahydroxydiphenylglucose; 4',4''-Di-Me ether, *in* H-10055
- C₂₂H₂₄O₅**
 Glyasperin H, G-10098
- C₂₂H₂₄O₆**
 Vismione C, V-10032
 Vismione H, *in* D-10102
- C₂₂H₂₄O₈**
 Anhydroexfoliamycin, *in* E-10238
- C₂₂H₂₄O₉**
 3,3',4',5,5',6,7-Heptamethoxyflavone, *in* H-10026
- C₂₂H₂₄O₁₁**
 Lanceolin†, *in* P-10040
 Okanin; 4-Me ether, 3'-*O*- β -D-glucopyranoside, *in* P-10040
 Okanin; 4-Me ether, 4'-*O*- β -D-glucopyranoside, *in* P-10040
 Scuteamoenoside, *in* T-10050
- C₂₂H₂₄O₁₂**
 Taxifolin; 7-Me ether, 3-*O*- β -D-glucopyranoside, *in* P-10050
 Taxifolin; 7-Me ether, 5-*O*- β -D-glucopyranoside, *in* P-10050
- C₂₂H₂₅NO₅**
 1-(*N*-Acetyl-*N*-methylamino)ethyl-7-hydroxy-3,4,6-trimethoxyphenanthrene, *in* M-10069
- C₂₂H₂₅NO₆**
 β -Lumicolchicine, L-10082
 γ -Lumicolchicine, *in* L-10082
- C₂₂H₂₆N₂O₃**
 Vincamajine, V-10023
 Vincamajinine, *in* V-10023
- C₂₂H₂₆N₂O₄**
 Gambireine, *in* P-10019
*N*¹-Methoxy-19,20-dehydroervatamine, *in* E-10191
 Nervobscurine, *in* A-10036
 Quaternidine, *in* P-10116
- C₂₂H₂₆N₂O₅**
 Volkensine†, *in* P-10116
- C₂₂H₂₆N₂O₆**
 Ornithine; *N*⁶,*N*⁶-Bis(benzyloxycarbonyl), Me ester, *in* O-10049
- C₂₂H₂₆N₄**
 Isocalcathine, I-10024
- C₂₂H₂₆O₅**
 2-Geranyloxy-5-hydroxy-7-methoxy-6-methyl-1,4-naphthoquinone, *in* T-10164
 Glyasperin D, *in* T-10068
 Glyasperin I, *in* T-10068
- C₂₂H₂₆O₆**
 Triandrin A, T-10102
- C₂₂H₂₆O₈**
 1,4-Epoxy-8,10,13-trihydroxy-1,5,7(11)-germacatrien-12,6-olide; 8-Tigloyl, 13-Ac, *in* E-10159
 Lecocarpinolid B, *in* T-10178
 Plicatipyronone, P-10124
 Teumassin, *in* D-10075
- C₂₂H₂₆O₉**
 Exfoliamycin, E-10238
 Prevernocistifolide-8-*O*-senecioate, *in* D-10088
- C₂₂H₂₆O₁₀**
 1,10,4,5-Diepoxy-8,13,14-trihydroxy-2,7(11)-germacadien-12,6-olide; 2 α ,3 α -Epoxide, 8-(3-methyl-2-butenoyl), 13-Ac, *in* D-10088
 Melampyroside, M-10026
- C₂₂H₂₆O₁₂**
 Obtusaside, O-10004
- C₂₂H₂₇ClN₂O₃**
 Lorajmine, *in* A-10035
- C₂₂H₂₇NO₄**
 Epocarbazolin A, E-10028
 Fissumine, F-10011
N-Methylsecoglaucine, M-10069
- C₂₂H₂₇NO₅**
O-Methylthaicanine, *in* T-10081
- C₂₂H₂₇NO₇**
 Alkaloid FK 3000, *in* S-10066
- C₂₂H₂₈NO₅[⊕]**
N-Methylthaicanine, *in* T-10081
- C₂₂H₂₈N₂O₄**
 Excelsinine, *in* M-10042
 19-Hydroxyvincamajine, *in* V-10023
 Isogambirine, I-10032
 Isorhynchophylline, *in* R-10031
 10-Methoxy-17-epialloyohimbine, *in* M-10042
 10-Methoxy-3-epi- α -yohimbine, *in* M-10042
 10-Methoxyyohimbine, M-10042
 10-Methoxy- α -yohimbine, *in* M-10042
 10-Methoxy- β -yohimbine, *in* M-10042
 Rhynchophylline, R-10031
- C₂₂H₂₈N₂O₅**
 Isorhynchophylline *N*-oxide, *in* R-10031
 Rhynchophylline *N*-oxide, *in* R-10031
- C₂₂H₂₈O₄**
 Metachromin E, M-10033
- C₂₂H₂₈O₅**
 Furanocremophil-1(10)-ene-3,6-diol; 6-Angeloyl, 3-Ac, *in* F-10030
 Furanocremophil-1(10)-ene-3,6-diol; 6-(3-Methyl-2-butenoyl), 3-Ac, *in* F-10030
 Furanocremophil-1(10)-ene-3,6-diol; 6-Tigloyl, 3-Ac, *in* F-10030
 Lancerodiol; 6-(4-Hydroxybenzoyl), *in* D-10131
 Lapidol; 6-(4-Hydroxybenzoyl), *in* D-10132
 Steviolide, *in* H-10208

- C₂₂H₂₈O₆**
 Canariquinone, *in* D-10106
 6-Deoxydunnianin, *in* D-10312
 1,10-Epoxyfuraneremophilane-3,6-diol; 3-Angeloyl, 6-Ac, *in* E-10085
 Isoquassin, *in* Q-10003
 Quassin, Q-10003
- C₂₂H₂₈O₇**
 3,6-Dihydroxyfuraneremophilan-9-one; 6-(2,3-Epoxy-2-methylbutanoyl), 3-Ac, *in* D-10168
 Dunnianin, D-10312
 Ereglomerulide, *in* D-10220
 2,3-*trans*-Ereglomerulide, *in* D-10220
 18-Hydroxyquassin, *in* Q-10003
 Picrasinol C, P-10115
 4,6,9-Trihydroxy-1(10),2-guaiaadien-12,8-olide; 9-Ac, 6-angeloyl, *in* T-10151
 4,6,9-Trihydroxy-1(10),2-guaiaadien-12,8-olide; 9-Ac, 6-angeloyl, *in* T-10151
 4,6,9-Trihydroxy-1(10),2-guaiaadien-12,8-olide; 9-Ac, 6-tigloyl, *in* T-10151
 Ventricosenediolide, *in* D-10128
- C₂₂H₂₈O₈**
 Acanthospermal B, *in* T-10178
 Coleon I, *in* T-10125
 3,6-Epoxy-8,11-dihydroxy-10-oxo-3,5,12-cembratriene-18,20-dioic acid; Di-Me ester, *in* E-10070
- C₂₂H₂₈O₉**
 1,10:4,5-Diepoxy-8,13,14-trihydroxy-2,7(11)-germacradien-12,6-olide; 8-(2-Methylbutanoyl), 13-Ac, *in* D-10088
 Piptocarphin B, *in* E-10151
- C₂₂H₂₈O₁₀**
 8β,10β-Diacetoxy-1-*O*-methylhirsutinolide 13-*O*-acetate, *in* E-10151
 8β-Propionyloxy-10β-hydroxyhirsutinolide 1,13-di-*O*-acetate, *in* E-10151
- C₂₂H₂₈O₁₂**
 4-Rutinosyloxy-5-methylcoumarin, *in* H-10176
- C₂₂H₂₈O₁₃**
 4-Hydroxy-5-methyl-2*H*-1-benzopyran-2-one; *O*-Cellobioside, *in* H-10176
 4-Hydroxy-5-methyl-2*H*-1-benzopyran-2-one; *O*-Gentiobioside, *in* H-10176
- C₂₂H₂₉NO₃**
 Talassimidine, *in* T-10001
 Talassimine, *in* T-10001
- C₂₂H₂₉NO₅**
 2-Acetylseptentriose, *in* S-10048
- C₂₂H₃₀N₂O₈**
 Urauchimycin A, U-10011
 Urauchimycin B, U-10012
- C₂₂H₃₀O₂**
 Riccardiphenol B, R-10034
- C₂₂H₃₀O₃**
 Teferidine, *in* D-10019
- C₂₂H₃₀O₄**
 Ferutinin, *in* D-10019
 Jaeschkeanadiol salicylate, *in* D-10019
 Palbinone, P-10002
 Smenoqualone, S-10068
 Spongiaquinone, S-10104
 Spongiaquinone; 9α,11-Dihydro, 8,12-didehydro, *in* S-10104
- C₂₂H₃₀O₅**
 Akiferidin, *in* D-10019
 10,12-Dihydroxy-3-longipinen-5-one; 12-Angeloyl, 10-Ac, *in* D-10191
 Furaneremophil-1(10)-ene-3,6-diol; 6-(3-Methylbutanoyl), 3-Ac, *in* F-10030
 Shikocin, S-10058
- C₂₂H₃₀O₆**
 16-Acetoxyarnocarnic acid, *in* T-10126
 Epoxyshikocin, *in* S-10058
 Picrasin D, *in* N-10025
 Rabdocoetsin B, *in* E-10161
 Rabdocoetsin D, *in* E-10160
- C₂₂H₃₀O₇**
ent-19-Acetoxy-7,20-epoxy-3α,6α,7-trihydroxy-16-kauren-15-one, *in* E-10121
 Rabdokaurin D, R-10001
 Shinjulactone L, *in* C-10066
 4,6,8,9-Tetrahydroxy-7-daucanone; 6-(4-Hydroxybenzoyl), *in* T-10041
 Wikstroemioidin C, *in* E-10152
- C₂₂H₃₀O₈**
 2,3-Dihydro-3β-hydroxyereglomerulide, *in* T-10179
 Teucrolin E, *in* D-10086
 3,8,10-Trihydroxy-1-oxo-11(13)-germacren-12,6-olide; 3-Me ether, 8-(2-methylpropenoyl), 10-Ac, *in* T-10179
- C₂₂H₃₀O₉**
 Teucrolin D, T-10078
- C₂₂H₃₁NO₆**
 Tuberosmonone, T-10209
- C₂₂H₃₂O₄**
 7,8:11,12-Diepoxy-1,3,15-cembratrien-14-ol; Ac, *in* D-10065
 Dilopholide, D-10264
 Grandiflorolic acid; Ac, *in* H-10170
 8(14),15-Isopimaradiene-1,6,9-triol; 1-Ketone, 6-Ac, *in* I-10044
 16-Kaurene-3,19-diol; 19-Carboxylic acid, 3-Ac, *in* K-10006
 Xylopic acid, *in* H-10170
- C₂₂H₃₂O₅**
 Asbestinin 10, *in* A-10130
 12,13-Bisepiepalmerin acetate, *in* E-10098
 Cheloviolin, C-10072
 Dendrilolide A, D-10036
 12-Epiepalmerin acetate, *in* E-10098
 Eupalmerin acetate, *in* E-10098
 Infexarabdonin K, *in* T-10154
 Maoecrystal G, *in* E-10123
 Norrisolide, N-10051
- C₂₂H₃₂O₆**
 13,14-Epoxy-3-hydroxy-15-oxo-8(17)-labden-19-oic acid; Ac, *in* E-10113
 Nigakilactone B, *in* N-10025
- C₂₂H₃₂O₇**
 Lasiokaurinol, *in* E-10120
 Sodoponin, *in* E-10119
 Teupyryn B, *in* D-10066
- C₂₂H₃₂O₈**
 Pieristoxin J, *in* E-10090
- C₂₂H₃₂O₁₃**
 Cistanoside H, *in* D-10235
- C₂₂H₃₂O₁₅**
 6'-*O*-Glucosylwertiamarin, *in* S-10136
- C₂₂H₃₃NO₅**
 Monticamine, M-10089
 Pentagyidine, P-10036
- C₂₂H₃₃NO₆**
 Excelsine†, *in* M-10089
 Monticoline, *in* M-10089
- C₂₂H₃₃NO₈**
 Acetylheliosupine, *in* H-10011
- C₂₂H₃₃NO₉**
 3'-Acetylheliosupine *N*-oxide, *in* H-10011
- C₂₂H₃₄O₂**
 8(17),12,14-Labdatrien-19-ol; Ac, *in* L-10010
 7,15-Pimaradien-18-ol; Ac, *in* P-10118
 Sarcophytol A; Ac, *in* C-10053
- C₂₂H₃₄O₃**
 8α-Acetoxy-12α,13α-epoxy-2-cyathene, *in* E-10050
 1β-Acetoxy-12α,13α-epoxy-2-cyathene, *in* C-10152
 14-Acetylsarcophytol B, *in* C-10049
 14-Acetylsarcophytol J, *in* C-10049
- C₂₂H₃₄O₄**
ent-19-Acetoxy-3,13-clerodadien-15-oic acid, *in* C-10106
 11-Acetoxy-4-deoxyasbestinin B, *in* A-10130
- 11-Acetoxy-4-deoxyasbestinin D, *in* A-10130
 Cheloviolene C, C-10068
 Cheloviolene F, C-10071
 Fagonone; 16-Ac, *in* D-10156
 Flaccidoxide, *in* C-10049
 8(14),15-Isopimaradiene-1,6,9-triol; 6-Ac, *in* I-10044
 7,16,17-Kauranetriol; 7-Ketone, 17-Ac, *in* K-10004
 8(17),13-Labdadiene-3,15,19-triol; 19-Aldehyde, 3-Ac, *in* L-10007
 2,10(18),14-Prenylguaiaatriene-4,6,13-triol; 13-Ac, *in* P-10150
- C₂₂H₃₄O₅**
 3-Acetoxy-15-hydroxy-8(17),13-labdadien-19-oic acid, *in* L-10007
 Deacetylamijidictyol, *in* D-10304
 16,17,19-Kauranetriol; 19-Carboxylic acid, 17-Ac, *in* K-10005
 2,10(18),14-Prenylguaiaatriene-4,6,9,12-tetrol; 12-Ac, *in* P-10145
 3,10(18),13-Prenylguaiaatriene-6,9,12,15-tetrol; 12-Ac, *in* P-10146
 4(17),10(18),14-Prenylguaiaatriene-3,6,9,12-tetrol; 12-Ac, *in* P-10148
 4(17),10(18),15-Prenylguaiaatriene-6,9,12,14-tetrol; 12-Ac, *in* P-10149
 4(17),10(18),15-Prenylguaiaatriene-6,9,12,14-tetrol; 12-Ac, 14-epimer, *in* P-10149
- C₂₂H₃₄O₇**
 Grayanotoxin XIV, *in* G-10129
 Infexarabdosin F, *in* K-10007
- C₂₂H₃₅NO₅**
 Bicolorine, B-10021
- C₂₂H₃₅NO₆**
 Lappaconidine, L-10027
- C₂₂H₃₆O₃**
 Esquirolin A, *in* K-10003
 8-Hydroxy-5,9,11,14-eicosatetraenoic acid; Et ester, *in* H-10129
ent-3α-Hydroxy-13-epimanool; 3-Ac, *in* L-10003
ent-16α,17-Kauranediol; 17-Ac, *in* K-10003
- C₂₂H₃₆O₄**
 9-Acetoxy-5-hydroxygeranylinalol, *in* P-10110
 13-Acetoxy-5-hydroxygeranylinalol, *in* P-10110
ent-7α-Acetoxy-16β,17-kauranediol, *in* K-10004
 6α-Acetoxy-12,14-labdadiene-7β,8β-diol, *in* L-10008
 7β-Acetoxy-12,14-labdadiene-6α,8β-diol, *in* L-10008
 7β-Acetoxy-12,14-labdadiene-6β,8α-diol, *in* L-10008
 3-Clerodene-15,18-diol; 15-Carboxylic acid, Ac, *in* C-10106
 Dictyoepoxide, *in* D-10089
 8,11-Epoxy-1,3-cembradiene-7,12-diol; 7-Ac, *in* E-10037
 4(18)-Erythroxylylene-11,15,16-triol; 11-Ac, *in* E-10196
 Stevinsol, *in* L-10008
- C₂₂H₃₆O₅**
 4(18)-Erythroxylylene-1,11,15,16-tetrol; 1-Ac, *in* E-10194
- C₂₂H₃₆O₇**
 ▸ Grayanotoxin I, *in* G-10129
- C₂₂H₃₇NO₂**
 Anandamide, *in* E-10009
- C₂₂H₃₈N₂O₁₆**
 2-Acetamido-2-deoxy-α-D-galactopyranosyl-(1→3)-β-D-galactopyranosyl-(1→3)-2-acetamido-2-deoxy-D-glucose, *in* A-10061
 2-Acetamido-2-deoxy-α-D-galactopyranosyl-(1→3)-β-D-galactopyranosyl-(1→4)-2-acetamido-2-deoxy-D-glucose, *in* A-10062
 2-Acetamido-2-deoxy-α-D-galactopyranosyl-(1→4)-β-D-galactopyranosyl-(1→4)-2-acetamido-2-deoxy-D-glucose, *in* A-10063

- 2-Acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)[2-acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 6)]-D-glucose, *in* A-10065
- 2-Acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 3)-2-acetamido-2-deoxy- β -D-glucose, *in* A-10066
- 2-Acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-galactopyranosyl-(1 \rightarrow 3)-2-acetamido-2-deoxy- β -D-glucose, *in* A-10067
- C₂₂H₃₈O₂**
13,16,19-Docosatrienoic acid, D-10300
- C₂₂H₃₈O₃**
3-Clerodene-15,18-diol; 15-Ac, *in* C-10106
3-Clerodene-15,18-diol; 18-Ac, *in* C-10106
15,16-Epoxy-15-ethoxy-3-clerodene-18-ol, *in* E-10048
3-Viscidene-5,16-diol; 16-Ac, *in* V-10031
- C₂₂H₃₈O₅**
14,15-Dihydro-14,15-dihydroxygeranylinalol; 9-Acetoxy, *in* P-10112
- C₂₂H₃₈O₁₀**
Anatolioside, *in* D-10279
Linalool; 3-*O*-[β -L-Fucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], *in* D-10279
Shionoside B, *in* D-10269
- C₂₂H₄₀N₄O₅**
Matlystatin B, M-10020
- C₂₃H₁₆O₅**
Ohioensin A, O-10019
- C₂₃H₂₀O₁₁**
Tetracenomycin C, T-10021
- C₂₃H₂₀O₁₃**
Luteolin; 3'-*O*-(*O*-Acetyl- β -D-glucuronoside), *in* T-10052
- C₂₃H₂₂O₇**
Amorphispironone, A-10074
Ponganone II, P-10132
- C₂₃H₂₂O₈**
Acetylpiiperenol A, *in* H-10181
- C₂₃H₂₂O₁₁**
2'-*O*-Acetylafzelin, *in* A-10030
3''-*O*-Acetylafzelin, *in* A-10030
4''-*O*-Acetylafzelin, *in* A-10030
- C₂₃H₂₂O₁₂**
Luteolin; 7-*O*-(6-*O*-Acetyl- β -D-glucopyranoside), *in* T-10052
- C₂₃H₂₂O₁₃**
Tricin; 7-*O*- β -D-Glucuronoside, *in* T-10140
- C₂₃H₂₂O₁₆S**
Tricin; 7-*O*-(Sulfoxy- β -D-glucuronoside), *in* T-10140
- C₂₃H₂₂O₁₉S₂**
Tricin; 7-*O*-(Disulfoxy- β -D-glucuronoside), *in* T-10140
- C₂₃H₂₄O₅**
8-Desoxygartanin, T-10144
Folipastatin, F-10014
Glyasperin G, G-10097
- C₂₃H₂₄O₆**
Curcumin I, *in* C-10149
2-(3,7-Dimethyl-2,6-octadienyl)-1,3,6,7-tetrahydroxyxanthone, D-10281
Isorheediaxanthone B, I-10050
- C₂₃H₂₄O₇**
Garvin A quinone, G-10023
- C₂₃H₂₄O₁₀**
Specioside A, *in* S-10084
Specioside B, *in* S-10084
- C₂₃H₂₄O₁₂**
Glucotricin, *in* T-10140
Tricin; 4'-*O*- β -D-Glucopyranoside, *in* T-10140
Tricin; 5-*O*- β -D-Glucopyranoside, *in* T-10140
- C₂₃H₂₄O₁₅S**
Tricin; 7-*O*-(Sulfoxy- β -D-glucopyranoside), *in* T-10140
- C₂₃H₂₅Br₄N₃O₇**
Aplysinamisine III, *in* H-10045
- C₂₃H₂₅ClN₂O₉**
8-Methoxychlorotetracycline, M-10039
- C₂₃H₂₅ClN₂O₁₀**
Dactylocyclinone, *in* M-10039
- C₂₃H₂₅NO**
Mahanimbine, M-10003
- C₂₃H₂₅NO₂**
Murrayamine C†, *in* M-10003
- C₂₃H₂₅NO₃**
Dioncophylline B, D-10290
Dioncophylline C, D-10291
- C₂₃H₂₆N₂O₄**
Akuammiline, A-10036
- C₂₃H₂₆N₂O₅**
Uncarine A; *N*-Ac, *in* U-10005
Uncarine B; *N*-Ac, *in* U-10005
- C₂₃H₂₆O₅**
8-Phenylacetoxyludalbin, *in* D-10159
- C₂₃H₂₆O₆**
3,6-Dihydroxyfuranoreomophil-1(10)-en-9-one; 3,6-Bis(methylpropenoyl), *in* D-10170
- C₂₃H₂₆O₇**
Purpactin A, *in* P-10025
- C₂₃H₂₆O₈**
8-Hydroxyzaluzanin C; 3,8-Bis-(2-hydroxymethylpropenoyl), *in* D-10175
- C₂₃H₂₆O₁₁**
Calceolarioside D, C-10015
Decentapicrin A, *in* S-10135
Decentapicrin B, *in* S-10135
Decentapicrin C, *in* S-10135
Dehydrobrucein B, *in* D-10029
Desacetylcentapicrin, *in* S-10135
Okainin; 3,4-Di-Me ether, 4'-*O*- β -D-glucopyranoside, *in* P-10040
- C₂₃H₂₆O₁₂**
cis-Coniferyl alcohol 4-*O*-(6-galloylglucopyranoside), *in* D-10243
Gardoside; 7-(4-Hydroxybenzoyl), *in* G-10020
Lobodirin, *in* D-10134
- C₂₃H₂₇NO₂**
Mahanimbicine, *in* M-10003
- C₂₃H₂₇NO₇**
Asimilobine 2-*O*- β -D-glucoside, *in* A-10132
- C₂₃H₂₈N₂O₄**
1,2 β -Dihydroakuammiline, *in* A-10036
3-Isopaynantheine, *in* P-10019
N-Jasmonoyltryptophan, J-10004
10-Methoxyvincamajine, *in* V-10023
11-Methoxyvincamajine, *in* V-10023
11-Methoxy-17-*epi*-vincamajine, *in* V-10023
Paynantheine, P-10019
- C₂₃H₂₈N₂O₅**
Quaternine, *in* P-10116
- C₂₃H₂₈N₂O₆**
Carapanaubine, C-10021
10,11-Dimethoxyisomitraphylline, *in* M-10082
Isocarapanaubine, *in* C-10021
Neisosposinine, *in* C-10021
- C₂₃H₂₈N₂O₇**
Carapanaubine *N*-oxide, *in* C-10021
- C₂₃H₂₈O₆**
3,6-Dihydroxyfuranoreomophilan-9-one; 3,6-Bis(2-methyl-2-propenoyl), *in* D-10168
3,6-Dihydroxyfuranoreomophil-1(10)-en-9-one; 3-Angeloyl, 6-propanoyl, *in* D-10170
- C₂₃H₂₈O₇**
Koberin B, *in* E-10103
Schizanalgnone B, S-10035
- C₂₃H₂₈O₉**
3-*O*-Methylexfoliamycin, *in* E-10238
- C₂₃H₂₈O₁₀**
1,10:4,5-Diepoxy-8,13,14-trihydroxy-2,7(11)-germacradien-12,6-olide; 8-(2-Methylpropanoyl), 13,14-di-Ac, *in* D-10088
2',3',4',7-Tetrahydroxyisoflavan; 3',4'-Di-Me ether, 7-*O*- β -D-glucopyranoside, *in* T-10054
- C₂₃H₂₈O₁₁**
7-*O*-Benzoylloganic acid, *in* L-10059
- C₂₃H₂₈O₁₂**
7-*p*-Hydroxybenzoyl-8-epiloganic acid, *in* L-10059
Swertiaside A, *in* L-10059
- C₂₃H₂₉NO₄**
Corymotine, C-10128
Epocarbazol B, E-10029
- C₂₃H₃₀NO₅[⊕]**
N,*O*-Dimethylthaicanine, *in* T-10081
- C₂₃H₃₀N₂O₄**
N-Cucurbinoyltryptophan, *in* J-10004
- C₂₃H₃₀O₅**
Andirobicin B, A-10086
Ferutidin, *in* D-10132
Furanoreomophil-1(10)-ene-3,6-diol; 6-(3-Methyl-2-pentenoyl), 3-Ac, *in* F-10030
Jaeskeandidin, *in* D-10019
Lancerodiol; 6-(4-Methoxybenzoyl), *in* D-10131
Stachybotrydial, S-10106
- C₂₃H₃₀O₆**
Lancerodiol vanillate, *in* D-10131
- C₂₃H₃₀O₇**
7,8-Epoxy-3,11,14-trihydroxy-12-oxocard-20(22)-enolide, E-10164
7,8-Epoxy-3,12,14-trihydroxy-11-oxocard-20(22)-enolide, E-10165
Polysyphorin, P-10130
- C₂₃H₃₀O₉**
Piptocarphin E, *in* E-10151
Prostatolide; 6-(Methylpropenoyl), 1,9-di-Ac, *in* T-10049
1,4,6,9-Tetrahydroxy-11(13)-eudesmen-12,8-olide; 6-(Methylpropenoyl), 1,9-di-Ac, *in* T-10049
- C₂₃H₃₀O₁₀**
Neohelmantacin, N-10018
- C₂₃H₃₀O₁₂**
1,4,5,8,10,13-Hexahydroxy-7(11)-muurolen-12,6-olide; 5,8,10,13-Tetra-Ac, *in* H-10058
1,4,5,8,10,13-Hexahydroxy-7(11)-muurolen-12,6-olide; 5,8,10,13-Tetra-Ac, *in* H-10058
Isonishindaside, *in* N-10028
Nishindaside, N-10028
- C₂₃H₃₁NO₈**
Angeloyl-*trans*-anacrotine *N*-oxide, *in* A-10078
- C₂₃H₃₂O₂**
1,1'-[1,11-Undecanediybis(oxy)]bisbenzene, *in* U-10007
- C₂₃H₃₂O₄**
3,14-Dihydroxycarda-16,20(22)-dienolide, D-10122
6,7-Epoxy-2-humulene-1-ol; (4-Methoxybenzoyl), *in* E-10097
3-Hydroxypregn-5-ene-7,20-dione; Ac, *in* H-10221
- C₂₃H₃₂O₅**
Antibiotic L 671776, A-10100
Ferutin, *in* D-10019
O-Methylshikoccin, *in* S-10058
Teferin, *in* D-10019
- C₂₃H₃₂O₆**
O-Methylepoxyschikoccin, *in* S-10058
1 α -*O*-Methylquassin, *in* Q-10003
3,5,14-Trihydroxy-19-oxocard-20(22)-enolide, T-10177

- C₂₃H₃₂O₇**
3,5,6,14-Tetrahydroxy-19-oxocard-20(22)-enolide, T-10062
- C₂₃H₃₂O₉**
Prostatolide; 6-(Methylpropanoyl), 1,9-di-Ac, *in* T-10049
1,4,6,9-Tetrahydroxy-11(13)-eudesmen-12,8-olide; 6-(Methylpropanoyl), 1,9-di-Ac, *in* T-10049
- C₂₃H₃₂O₁₂**
Pedirutinolide, *in* H-10223
- C₂₃H₃₃NO₅S**
Melemeleone A, M-10027
Melemeleone B, M-10028
- C₂₃H₃₃NO₈S**
13-[(2-Amino-2-carboxyethyl)thio]-14-hydroxy-4,7,9,11-octadecatetraenedioic acid; *N*-Ac, *in* A-10058
- C₂₃H₃₄O₄**
8(17),12,14-Labdatrien-19-ol; Malonoyl ester, *in* L-10010
7,15,-Pimaradien-18-ol; Malonoyl, *in* P-10118
▷ Uzarginin, U-10020
- C₂₃H₃₄O₅**
3-*epi*-Periplogenin, *in* T-10134
Rabdocoetsin C, *in* E-10122
3,5,14-Trihydroxycard-20(22)-enolide, T-10134
- C₂₃H₃₄O₆**
Ajugarin IV, *in* H-10101
9,13-Epidioxy-11-abieten-2-ol; Malonoyl ester, *in* E-10026
Tenacigenin A; 12-Ac, *in* T-10016
Wikstroemioidin B, *in* E-10119
- C₂₃H₃₄O₆S**
Leukotriene G₄, L-10048
- C₂₃H₃₄O₇**
Metaplexigenin, *in* P-10059
3,8,10-Trihydroxy-1-oxo-11(13)-germacren-12,6-olide; 3-*O*-Isopropyl, 8-angeloyl, *in* T-10179
- C₂₃H₃₄O₈S**
Sultriecin, S-10133
- C₂₃H₃₄O₉**
2-*O*- α -L-Fucopyranosyl-L-fucose; Me glycoside, 2'-benzyl, 3,4-*O*-isopropylidene, *in* F-10023
- C₂₃H₃₄O₁₄**
Syringinolide, *in* S-10065
- C₂₃H₃₅NO₅**
Pentagynine, *in* P-10036
- C₂₃H₃₅NO₆**
Ajadelphinin, *in* N-10052
Aranorosinol A, A-10112
Delmenzine, *in* D-10033
- C₂₃H₃₅NO₈**
Acetyllasiocarpine, *in* L-10032
- C₂₃H₃₅NO₉**
3'-Acetyllasiocarpine *N*-oxide, *in* L-10032
- C₂₃H₃₆O₇**
Cryptoporin acid A, C-10137
- C₂₃H₃₆O₈**
Cryptoporin acid B, *in* C-10137
- C₂₃H₃₆O₁₆**
Shanzhisin methyl ester gentiobioside, *in* S-10057
- C₂₃H₃₇NO₅**
Dihydropentagynine, *in* B-10021
Regaline, *in* B-10021
- C₂₃H₃₇NO₆**
Acosepticine, *in* A-10025
Lappaconine, *in* L-10027
Senbusine A, S-10046
- C₂₃H₃₇NO₇**
Acoseptrine, A-10025
- C₂₃H₃₈O₂**
Esquirolin C, *in* I-10045
- C₂₃H₃₈O₅**
15,16-Epoxy-3-clerodene-7,15,18-triol; 15-Me ether, 18-Ac, *in* E-10049
- C₂₃H₃₈O₆**
Betaenone F, *in* B-10017
Tomentogenin; 12-Ac, *in* P-10138
- C₂₃H₃₈O₇**
▷ Asebotoxin I, *in* G-10129
- C₂₃H₃₈O₈**
Asebotoxin X, *in* G-10129
Pieristoxin I, *in* G-10129
- C₂₃H₃₉NO**
4-Methylhexadecanoic acid; Anilide, *in* M-10061
Piperoctadecalidine, *in* O-10011
- C₂₃H₄₀O₆**
Palmonin C, *in* E-10083
- C₂₃H₄₀O₁₉**
Ristotetrose, R-10037
- C₂₃H₄₀O₂₀**
Cyclamotetraose, C-10153
- C₂₃H₄₁N₃O₂S**
Agelasidine C, A-10034
- C₂₃H₄₁N₃O₃S**
Agelasidine D, *in* A-10034
- C₂₃H₄₄O**
17-Tricosenal, T-10113
- C₂₃H₄₄O₂**
16-Tricosenoic acid, T-10114
17-Tricosenoic acid, T-10115
18-Tricosenoic acid, T-10116
- C₂₄H₁₆O₇**
Spiromentin A, S-10095
- C₂₄H₁₆O₁₀**
Pradimicin M, P-10137
Pradimicin Q, *in* P-10137
- C₂₄H₁₆O₁₂**
Okanin; 4'-Me ether, 4-*O*-(6-*O*-acetyl- β -D-glucopyranoside), *in* P-10040
- C₂₄H₁₆S₄**
Cardopatine, C-10025
- C₂₄H₁₈O₅**
Rubiflavinone C1, *in* R-10053
Rubiflavinone C2, *in* R-10053
- C₂₄H₁₈O₈**
Spiromentin B, S-10096
Spiromentin C, S-10097
- C₂₄H₁₈O₁₀**
BL IV, *in* P-10056
- C₂₄H₂₂O₁₁**
Tetralenomycin X, *in* T-10021
- C₂₄H₂₂O₁₄**
Luteolin 7-(2-glucuronosyllactate), *in* T-10052
Luteolin; 5-*O*-(6-*O*-Malonyl- β -D-glucopyranoside), *in* T-10052
Luteolin; 7-*O*-(6-Malonylglucoside), *in* T-10052
Trifolin†; 6''-*O*-Malonyl, *in* T-10123
- C₂₄H₂₄Br₄N₄O₉**
11-Oxo-aerotherionin, *in* A-10028
- C₂₄H₂₄N₂O₈**
Scabrosine; 4-Ac, 4'-butanoyl, *in* S-10029
- C₂₄H₂₄O₈**
1,4-Epoxy-8,10,13-trihydroxy-1,5,7(11)-germacatrien-12,6-olide; 13-(3-Formylphenyl ether), 8-Ac, *in* E-10159
- C₂₄H₂₄O₁₃**
Luteolin 7-(2-glucosyllactate), *in* T-10052
- C₂₄H₂₅NO₉**
Glycomarine, *in* S-10055
- C₂₄H₂₆Br₄N₄O₈**
Aerotherionin, A-10028
- C₂₄H₂₆Br₄N₄O₉**
11-Hydroxyaerotherionin, *in* A-10028
- C₂₄H₂₆Br₄N₄O₁₀**
Dihydroxyaerotherionin, *in* A-10028
- C₂₄H₂₆N₂O₇**
Lapidilectam, *in* L-10025
- C₂₄H₂₆O₅**
1,5-Dihydroxy-3-methoxy-2,4-diprenylxanthone, *in* T-10144
- C₂₄H₂₆O₆**
Cowaxanthone, *in* D-10281
Rubraxanthone, R-10058
- C₂₄H₂₆O₇**
Oxysiphulin, O-10067
- C₂₄H₂₆O₁₂**
Okanin; 4-Me ether, 4'-*O*-(6-*O*-acetyl- β -D-glucopyranoside), *in* P-10040
- C₂₄H₂₆O₁₄**
3,3',4',5,5',6,7-Heptahydroxyflavone; 3',5',6-Tri-Me ether, 3-*O*- β -D-glucopyranoside, *in* H-10026
- C₂₄H₂₆O₁₅**
Norswertiprimeveroside, *in* T-10073
- C₂₄H₂₇ClN₂O₉**
8-Methoxy-*N*-methylchlorotetracycline, *in* M-10039
- C₂₄H₂₈N₂O₄**
Vincamedine, *in* V-10023
- C₂₄H₂₈N₂O₅**
5 β -Hydroxymethylakuammiline, *in* A-10036
Raufloricine, *in* A-10036
- C₂₄H₂₈N₂O₆**
Isolapidilectine A, *in* L-10025
Lapidilectine A, L-10025
- C₂₄H₂₈O₅**
3,6-Dihydroxyfuraneremophil-1(10)-en-9-one; 3-Angeloyl, 6-(methylpropenoyl), *in* D-10170
3,6-Dihydroxyfuraneremophil-1(10)-en-9-one; 6-Angeloyl, 3-(methylpropenoyl), *in* D-10170
- C₂₄H₂₈O₈**
Protosiphulin, P-10157
- C₂₄H₂₈O₁₀**
1,10,4,5-Diepoxy-8,13,14-trihydroxy-2,7(11)-germacradien-12,6-olide; 8-(3-Methyl-2-butenoyl), 13,14-di-Ac, *in* D-10088
- C₂₄H₂₈O₁₁**
Cronupapine, C-10133
Okanin; 3,3',4-Tri-Me ether, 4'-*O*- β -D-glucopyranoside, *in* P-10040
- C₂₄H₂₉NO₁₀**
Demethylalangiside, *in* A-10037
- C₂₄H₃₀N₂O₇**
Epilapidilectinol, *in* L-10025
Lapidilectinol, *in* L-10025
- C₂₄H₃₀O₅**
Gancaonin T, G-10019
- C₂₄H₃₀O₆**
3,6-Dihydroxyfuraneremophilan-9-one; 3-(2-Methyl-2-propenoyl), 6-angeloyl, *in* D-10168
3,6-Dihydroxyfuraneremophilan-9-one; 3-(2-Methyl-2-propenoyl), 6-tigloyl, *in* D-10168
3,6-Dihydroxyfuraneremophil-1(10)-en-9-one; 3-Angeloyl, 6-(2-methylpropanoyl), *in* D-10170
5,14,16-Trihydroxy-19-oxobufo-3,20,22-trienolide, T-10176
Triptogelin E4, *in* T-10138
- C₂₄H₃₀O₇**
Palliferinin, *in* D-10132
Schizanolignone A, *in* S-10035

- C₂₄H₃₀O₈**
Isodunnianin, *in* D-10312
- C₂₄H₃₀O₁₀**
Coleon K, *in* T-10125
- C₂₄H₃₀O₁₂**
6'-*O*-Benzoylshanzhisi methyl ester, *in* S-10057
Isoligustrosidic acid, I-10036
- C₂₄H₃₀O₁₃**
Syringalactone B, *in* S-10041
- C₂₄H₃₀O₁₄**
Acetylramosin C, *in* S-10136
Cornuside, *in* S-10041
- C₂₄H₃₂O₄**
Rupestrinol orthocinnamate, R-10060
- C₂₄H₃₂O₅**
7-Hydroperoxy-8-eudesmene-1,4-diol; 4-Cinnamoyl, *in* H-10078
- C₂₄H₃₂O₆**
14,15-Epoxy-3,16,19-trihydroxybufa-20,22-dienolide, E-10155
Lancerotol veratrate, *in* D-10131
3,5,14-Trihydroxy-19-oxobufa-20,22-dienolide, T-10175
- C₂₄H₃₂O₇**
Lobomichaolide, *in* E-10060
Malkangunin, *in* T-10043
Shikodomedin, *in* S-10058
2,3,5,14-Tetrahydroxy-19-oxo-20,22-bufadienolide, T-10061
- C₂₄H₃₂O₈**
Lecocarpinolide K, *in* T-10178
Maocrystal J, *in* E-10121
Rabdokaurin B, *in* R-10001
Shikokiamedin, *in* S-10058
Shikokianin, *in* E-10119
Thuridillin A, T-10088
Thuridillin B, T-10089
Triptogelin A8, *in* P-10046
- C₂₄H₃₂O₉**
1,4,6,9-Tetrahydroxy-11(13)-eudesmen-12,8-olide; 6-Angeloyl, 1,9-di-Ac, *in* T-10049
2,8,10,11-Tetrahydroxy-3-slovenolide; 8-(3-Methyl-2-butenoyl), 10,11-di-Ac, *in* T-10053
- C₂₄H₃₄N₆O₇**
Cyclo(alanylalanylvalyltyrosylglycylglycyl), C-10155
- C₂₄H₃₄O₂**
1,1'-[1,12-Dodecanediylbis(oxy)]bisbenzene, *in* D-10302
- C₂₄H₃₄O₄**
3,12-Dihydroxy-20,22-bufadienolide, D-10121
Grandiflorolic acid; 2-Methylpropenoyl, *in* H-10170
- C₂₄H₃₄O₅**
Metachromin D, M-10032
- C₂₄H₃₄O₆**
Hellebrigenol, *in* T-10175
- C₂₄H₃₄O₇**
Macfarlandin E, *in* D-10036
Nigakilactone C, *in* N-10025
Thuridillin C, T-10090
- C₂₄H₃₄O₈**
Rabdokaurin C, *in* E-10120
Rabdosichuanin D, *in* E-10119
Ternifolin, *in* E-10119
Teucrolin B, *in* D-10066
Teugracilin C, *in* D-10066
- C₂₄H₃₄O₉**
2,8,10,11-Tetrahydroxy-3-slovenolide; 8-(2-Methylbutanoyl), 10,11-di-Ac, *in* T-10053
- C₂₄H₃₅NO₆**
Yunnadelphinine, *in* D-10033
- C₂₄H₃₅NO₇**
8-Acetylexcelsine, *in* M-10089
- C₂₄H₃₆O₄**
3,16-Dihydroxy-22,23,24,25,26,27-hexanorcurcurbit-5-ene-11,20-dione, D-10177
Grandiflorolic acid; 2-Methylpropanoyl, *in* H-10170
7-Hydroxy-8-(15-hydroxypentadecyl)-2*H*-1-benzopyran-2-one, H-10165
Sarcophytol H; Di-Ac, *in* C-10052
- C₂₄H₃₆O₅**
Asbestinin 9, *in* A-10130
16-Kaurene-3,19-diol; 19-Succinoyl ester, *in* K-10006
- C₂₄H₃₆O₆**
Amijidictyol, *in* D-10304
12,13:15,16-Diepoxy-3-clerodene-15,16-diol; Di-Ac, *in* D-10068
16,17,19-Kauranetriol; 19-Carboxylic acid, 16,17-di-Ac, *in* K-10005
Palmonine D, *in* E-10084
Palmonine E, *in* E-10065
3,10(18),14-Prenylguaiaatriene-6,9,12,13-tretol; 12,13-Di-Ac, *in* P-10147
- C₂₄H₃₆O₇**
2,10(18),14-Prenylguaiaatriene-4,6,9,12,13-pentol; 12,13-Di-Ac, *in* P-10143
4(17),10(18),14-Prenylguaiaatriene-3,6,9,12,13-pentol; 12,13-Di-Ac, *in* P-10144
- C₂₄H₃₆O₈**
Forrestin B, *in* K-10007
- C₂₄H₃₆O₁₄**
4-*O*-β-D-Glucopyranosyl-L-rhamnose; Me glycoside, 2,3-*O*-isopropylidene, tetra-Ac, *in* G-10072
- C₂₄H₃₇NO₆**
Bicolorine 6-*O*-acetate, *in* B-10021
Bicolorine 14-*O*-acetate, *in* B-10021
Delelatine, *in* D-10033
Eladine, *in* D-10033
Pacidine, *in* D-10033
Winkleriline, *in* N-10052
- C₂₄H₃₈O₄**
3,12-Clerodadiene-15,16-diol; 15,16-Di-Ac, *in* C-10101
3,12-Clerodadiene-15,16-diol; 15,16-Di-Ac, *in* C-10101
4-Deoxyasbestinin A, *in* A-10130
4-Deoxyasbestinin C, *in* A-10130
ent-3α-Hydroxy-13-epimanol; Di-Ac, *in* L-10003
- C₂₄H₃₈O₅**
Asbestinin 3, *in* A-10130
5,9-Diacetoxygeranylinalol, *in* P-10110
Trunculin F, T-10206
- C₂₄H₃₈O₈**
Rhodojaponin IV, *in* G-10129
- C₂₄H₃₉NO₆**
Foresticine, *in* S-10046
- C₂₄H₄₀O₅**
3-Clerodene-15,18-diol; 18-(Methylmalonyl), *in* C-10106
3-Clerodene-15,16,18-triol; 15,16-Di-Ac, *in* C-10108
3-Clerodene-15,16,18-triol; 15,18-Di-Ac, *in* C-10108
- C₂₄H₄₀O₂₂**
β-D-Glucopyranuronosyl-(1→4)-β-D-glucopyranosyl-(1→4)-α-D-glucopyranosyl-(1→4)-D-galactose, G-10081
- C₂₄H₄₁N₃O₁₆**
2-Acetamido-2-deoxy-β-D-glucopyranosyl-(1→4)-2-acetamido-2-deoxy-β-D-glucopyranosyl-(1→4)-2-acetamido-2-deoxy-D-glucose, *in* A-10064
- C₂₄H₄₂O₅**
Mycaperoxide A, M-10095
Mycaperoxide B, M-10096
- C₂₄H₄₂O₂₁**
Verbascotetraose, V-10020
- C₂₄H₄₃NO₂₀**
β-D-Galactopyranosyl-(1→4)-[2-amino-2-deoxy-β-D-glucopyranosyl-(1→3)]-β-D-galactopyranosyl-(1→4)-D-glucose, G-10004
- C₂₄H₄₆N₂O₅**
Antibiotic Sch 38513, *in* F-10013
Fluvirucin B₁, *in* F-10013
- C₂₄H₄₈O₃**
Cerebronic acid, H-10229
3-Hydroxytetracosanoic acid, H-10230
- C₂₄H₅₀NO₇P**
α-Lysolecithin, L-10088
- C₂₄H₆₆O₂₁**
Doronicoside D, *in* H-10170
- C₂₅H₂₀O₈**
Scutellaprostin A, S-10037
Scutellaprostin D, S-10038
- C₂₅H₂₀O₉**
Neohydrocarpin, N-10019
Scutellaprostin B, *in* S-10037
Scutellaprostin E, *in* S-10038
- C₂₅H₂₀O₁₀**
Scutellaprostin C, *in* S-10037
Scutellaprostin F, *in* S-10038
- C₂₅H₂₄N₆O₅**
Leucettamidine, L-10043
- C₂₅H₂₄O₄**
Spinoflavanone A, S-10089
- C₂₅H₂₄O₅**
Isolaxifolin, I-10035
Laxifolin, L-10037
- C₂₅H₂₄O₇**
Gnetifolin F, G-10103
- C₂₅H₂₄O₁₂**
2'',4''-Diacetylafzelin, *in* A-10030
3'',4''-Diacetylafzelin, *in* A-10030
- C₂₅H₂₄O₁₃**
Genkwanin; 5-*O*-(6-*O*-Malonyl-β-D-glucopyranoside), *in* D-10195
- C₂₅H₂₄O₁₄**
Pteroflavonolide, *in* P-10133
- C₂₅H₂₅NO₄**
Ancistrocladine, *in* A-10083
- C₂₅H₂₆BrN₅O₁₁**
Prosurgatoxin, *in* N-10022
- C₂₅H₂₆O₃**
Spinochalcone C, S-10088
- C₂₅H₂₆O₅**
Bidwillon B, B-10022
2-(2,4-Dihydroxyphenyl)-8,8-dimethyl-10-(3-methyl-2-butenyl)-8*H*-pyrano[2,3-*d*]chroman-4-one, D-10234
- C₂₅H₂₆O₆**
Glyasperin J, G-10099
Lupinol A, L-10086
- C₂₅H₂₆O₇**
3',4',5',7'-Pentahydroxy-2',6'-diprenylisoflavone, P-10048
- C₂₅H₂₇BrO₅**
Marinone, M-10017
- C₂₅H₂₇NO₄**
Ancistrobrevine C, A-10082
Ancistrocladine, *in* A-10083
- C₂₅H₂₈Br₄N₄O₈**
Homoaerothionin, *in* A-10028
- C₂₅H₂₈O₄**
Spinoflavanone B, D-10141
- C₂₅H₂₈O₅**
Bidwillon A, T-10143
Debromomarinone, *in* M-10017

- C₂₅H₂₈O₆**
Lepedezaflavanone D, T-10047
Nymphaeol B, N-10054
- C₂₅H₂₈O₇**
Tinctomorone, *in* D-10180
- C₂₅H₂₈O₉**
Piptocarphol; 1-Me ether, 13-*O*-(3-formylphenyl), 8-Ac, *in* E-10151
- C₂₅H₂₈O₁₁**
6'-Vanilloylpediglucoiside, *in* H-10223
- C₂₅H₂₈O₁₂**
Centapicrin, *in* S-10135
- C₂₅H₂₈O₁₄**
3,3',4',5',5',6',7-Heptahydroxyflavone; 3,3',5',6'-Tetra-Me ether, 7-*O*-β-D-glucopyranoside, *in* H-10026
- C₂₅H₂₈O₁₅**
Gentiakochianoside, *in* T-10073
Isogentiakochianoside, *in* T-10073
- C₂₅H₂₈O₁₆**
2,4-Diglucosyl-1,3,6,7-tetrahydroxyxanthone, D-10090
Norswertianine; 6,8-Di-*O*-β-D-glucopyranoside, *in* T-10073
Norswertianine; 8-*O*-β-D-Laminaribioside, *in* T-10073
- C₂₅H₂₉NO₄**
Ancistrobrevine B, A-10081
Ancistrocladine, A-10083
- C₂₅H₂₉N₃O₄**
Cadabicine, C-10001
- C₂₅H₃₀N₂O₅**
10-Methoxyvincamedine, *in* V-10023
11-Methoxyvincamedine, *in* V-10023
- C₂₅H₃₀N₂O₆**
10-Methoxyvincamedine *N*(4)-oxide, *in* V-10023
- C₂₅H₃₀O₅**
Vismione D, *in* D-10102
- C₂₅H₃₀O₆**
3,6-Dihydroxyfuranoeremophil-1(10)-en-9-one; 3,6-Diangeloyl, *in* D-10170
- C₂₅H₃₀O₉**
Loxodinol, L-10066
Robustaol A, R-10040
- C₂₅H₃₀O₁₄**
6'-Vanilloylkingside, *in* K-10012
- C₂₅H₃₁NO₁₀**
Alangiside, A-10037
- C₂₅H₃₁NO₁₃**
Haplosimine, *in* H-10002
- C₂₅H₃₂O₄**
Luffarin T, L-10077
Luffarin U, *in* L-10077
- C₂₅H₃₂O₅**
Scoparic acid B, *in* H-10117
- C₂₅H₃₂O₈**
Lecocarpinolide I, *in* T-10178
Lecocarpinolide L, *in* T-10178
- C₂₅H₃₂O₉**
Gutolactone, *in* S-10064
6-Hydroxychaparrin; 2-Ketone, 6-tigloyl, *in* H-10095
- C₂₅H₃₂O₁₂**
Excelsioside, E-10237
Isoligustroside, *in* I-10036
Ligustroside, *in* O-10033
- C₂₅H₃₂O₁₃**
10-Hydroxyiligustroside, *in* O-10033
Isooleuropein, *in* I-10036
Oleuropein, O-10033
- C₂₅H₃₂O₁₄**
5-Acetyl-6-glucosyl-7-hydroxy-2-methyl-4*H*-1-benzopyran-4-one; 2'-*O*-β-D-Glucopyranoside, *in* A-10013
10-Hydroxyoleuropein, *in* O-10033
- C₂₅H₃₄O₄**
Luffarin C, *in* L-10071
Luffarin V, *in* L-10077
- C₂₅H₃₄O₅**
3-Angeloyl-20-deoxyingenol, *in* I-10012
5-Angeloyl-20-deoxyingenol, *in* I-10012
Luffarin R, L-10076
Valdivone A, *in* D-10162
- C₂₅H₃₄O₆**
3-*O*-Angeloylingenol, *in* I-10012
- C₂₅H₃₄O₇**
Acalycigargin A, *in* E-10074
Palliferin, *in* D-10132
- C₂₅H₃₄O₈**
Acalycigargin B, *in* E-10074
Methyl 6α,7β-diacetoxy-14-hydroxyvinhatocic acid, *in* T-10196
- C₂₅H₃₄O₉**
Simalikalactone D, S-10064
6α-Tigloyloxychaparrin, *in* H-10095
- C₂₅H₃₄O₁₀**
12,16-Dihydro-6,7,12,14-tetrahydroxy-16-oxovinhatocic acid; 6,7-Di-Ac, Me ester, *in* D-10103
- C₂₅H₃₄O₁₂**
Abelioside A, *in* A-10001
- C₂₅H₃₆O₂**
1,1'-[1,13-Tridecanediylbis(oxy)]bisbenzene, *in* T-10118
- C₂₅H₃₆O₃**
3-Hydroxy-26,27-dinorcholesta-5,22-diene-7,24-dione, H-10115
Lintenone, L-10055
Luffarin G, *in* L-10071
Luffarin H, *in* L-10071
- C₂₅H₃₆O₄**
ent-3β-Angeloyloxy-16β,17-epoxy-19-kauranal, *in* K-10006
Grandiflorolic acid; Angeloyl, *in* H-10170
Grandiflorolic acid; 3-Methyl-2-butenoyl, *in* H-10170
Grandiflorolic acid; Tigloyl, *in* H-10170
15-Hydroxy-16-kauran-19-oic acid; Angeloyl, *in* H-10170
15-Hydroxy-16-kauran-19-oic acid; 3-Methyl-2-butenoyl, *in* H-10170
15-Hydroxy-16-kauran-19-oic acid; Tigloyl, *in* H-10170
16-Kaurene-3,19-diol; 19-Carboxylic acid, 3-angeloyl, *in* K-10006
16-Kaurene-3,19-diol; 19-Carboxylic acid, 3-(3-methyl-2-butenoyl), *in* K-10006
16-Kaurene-3,19-diol; 19-Carboxylic acid, 3-tigloyl, *in* K-10006
Luffarin E, L-10071
Luffarin F, *in* L-10071
Luffarin M, *in* L-10073
Metachromin F, M-10034
- C₂₅H₃₆O₅**
Colupox a, C-10119
Colupox b, *in* C-10117
Dihydrovaldivone A, *in* D-10162
9,10-Dihydroxy-5-longipinanone; Diangeloyl, *in* D-10190
Epoxyangeloxygrandifloric acid, *in* H-10170
15-Hydroxy-16-kauran-19-oic acid; 16ξ,17-Epoxy,15-tigloyl, *in* H-10170
Luffarin A, L-10069
Luffarin B, L-10070
Perymenic acid, *in* H-10170
- C₂₅H₃₆O₆**
Colupox a, C-10117
Peripogonin; 3-Ac, *in* T-10134
- C₂₅H₃₆O₇**
Ingol; 8-Tigloyl, *in* I-10013
- C₂₅H₃₆O₁₂**
Abelioside B, A-10001
- C₂₅H₃₆O₁₄**
Suspensolide C, S-10134
- C₂₅H₃₆O₁₅**
Acaciabiuronic acid; 1,2:3,4-Di-*O*-isopropylidene, 2',3',4'-tri-Ac, Me ester, *in* A-10011
- C₂₅H₃₇NO₆**
Pacinine, *in* D-10033
- C₂₅H₃₇NO₇**
Guenerine, G-10138
- C₂₅H₃₈N₂O₆S**
Leukotriene D₅, *in* L-10047
- C₂₅H₃₈O₂**
Luffarin P, L-10074
Luffarin Q, L-10075
Raoulic acid, R-10006
- C₂₅H₃₈O₃**
24,25-Epoxy-17(25),18(24)-scalaradiene-12,6-diol, E-10146
- C₂₅H₃₈O₄**
Grandiflorolic acid; 2-Methylbutanoyl, *in* H-10170
Grandiflorolic acid; 3-Methylbutanoyl, *in* H-10170
8-(15-Hydroxypentadecyl)-7-methoxy-2*H*-benzopyran-2-one, *in* H-10165
16-Kaurene-3,19-diol; 19-Carboxylic acid, 3-(3-methylbutanoyl), *in* K-10006
16-Kaurene-3,19-diol; 19-Carboxylic acid, *O*-(3-methylbutanoyl), *in* K-10006
Luffarin I, L-10072
Luffarin K, L-10073
Luffarin L, *in* L-10073
Terpestacin, T-10019
- C₂₅H₃₈O₅**
Luffariolide F, L-10080
Luffariolide G, L-10081
Pallinin, *in* D-10020
- C₂₅H₃₈O₆**
Colupdol, C-10116
Grandiflorolic acid; 2,3-Dihydroxy-2-methylbutanoyl, *in* H-10170
- C₂₅H₃₈O₇**
Ajugamarin F1, *in* E-10156
Rufoside A, *in* H-10170
- C₂₅H₃₈O₈**
Clerodinin A, *in* C-10110
Clerodinin B, *in* C-10110
- C₂₅H₃₈O₁₀**
Asebotoxin VII, *in* E-10090
Pieristoxin K, *in* E-10090
- C₂₅H₃₉NO₅**
6-Deoxydelpheline, *in* D-10033
- C₂₅H₃₉NO₆**
Bicoloridine, *in* B-10021
Corumdefine, *in* N-10052
N-Deethyl-14-*O*-methylperegrine, *in* B-10021
Delpheline, D-10033
Hohenackerine, *in* N-10052
Isodelpheline, *in* D-10033
Nudicaulamine, N-10052
- C₂₅H₃₉NO₇**
6-*O*-Acetylacosepticine, *in* A-10025
Ajadelphine, *in* P-10169
- C₂₅H₄₀N₂O₆S**
Leukotriene D₄, L-10047
- C₂₅H₄₀O₄**
6α-Angeloyloxynidorellol, *in* L-10008
Luffarin J, *in* L-10072
- C₂₅H₄₀O₆**
15,16-Epoxy-3-clerodene-15,18-diol; 15-Me ether, 18-(methylmalonyl), *in* E-10048

- C₂₅H₄₀O₇**
15,16-Epoxy-3-clerodene-7,15,18-triol; 15-Me ether, 18-(methylmalonyl), *in* E-10049
Tomentin†, *in* P-10138
- C₂₅H₄₁NO₆**
14-*O*-Methylforensicine, *in* S-10046
- C₂₅H₄₁NO₇**
Delbiterine, *in* D-10032
6-Demethyldephatine, *in* D-10032
- C₂₅H₄₂N₂O₆S**
Leukotriene D₃, *in* L-10047
- C₂₅H₄₂O₇**
Palmonine A, *in* E-10083
- C₂₅H₄₃NO**
Pipericosalidine, *in* E-10010
- C₂₅H₄₃NO₆**
10-Deoxymethymycin, *in* M-10079
- C₂₅H₄₃NO₇**
Methymycin, M-10079
- C₂₅H₄₆O₂**
23-Methyl-5,9-tetracosadienoic acid, M-10072
- C₂₅H₄₈**
3-(3,7-Dimethyloctyl)-2,6,10-trimethyl-1,11-dodecadiene, D-10283
- C₂₅H₄₈N₂O₅**
Antibiotic Sch 38518, *in* F-10013
Fluvirucin B₃, *in* F-10013
- C₂₅H₄₈O**
19-Pentacosenal, *in* P-10029
- C₂₅H₄₈O₂**
16-Pentacosenoic acid, P-10026
17-Pentacosenoic acid, P-10027
18-Pentacosenoic acid, P-10028
19-Pentacosenoic acid, P-10029
- C₂₅H₅₀O₃**
Cerebronic acid; Me ester, *in* H-10229
- C₂₆H₂₀O₁₁**
BL III, *in* P-10056
1,2,4,7,8-Pentahydroxy-3-(4-hydroxyphenyl)dibenzofuran; 1,2,4,7-Tetra-Ac, *in* P-10056
1,2,4,7,8-Pentahydroxy-3-(4-hydroxyphenyl)dibenzofuran; 1,2,4,8-Tetra-Ac, *in* P-10056
- C₂₆H₂₄O₇**
Ribitol; 2,4-*O*-Benzylidene, 1,5-dibenzoyl, *in* R-10032
- C₂₆H₂₄O₈**
Ribitol; 2,3,4-Tribenzoyl, *in* R-10032
- C₂₆H₂₄O₁₃**
3-Glucosyl-2,3',4,4',6'-pentahydroxybenzophenone; 6''-(*p*-Hydroxybenzoyl), *in* G-10087
- C₂₆H₂₆O₁₀**
Ikariside E, *in* C-10099
- C₂₆H₂₆O₁₄P₂**
Ribitol; 2,3,4-Tribenzoyl, 1,5-diphosphate, *in* R-10032
- C₂₆H₂₇NO₄**
Dioncophyllacine A, D-10289
- C₂₆H₂₇NO₉**
Stephananine, S-10116
- C₂₆H₂₈N₂O₈**
Scabrosine; 4-Ac, 4'-hexanoyl, *in* S-10029
Scabrosine; Dibutanoyl, *in* S-10029
- C₂₆H₂₈O₆**
4,6'-Epoxyoritiniifavanol, E-10139
Lupinol B, *in* L-10086
- C₂₆H₂₈O₇**
Erythbigenin, *in* P-10048
- C₂₆H₂₈O₉**
Brownin D, B-10048
- C₂₆H₂₈O₁₄**
Afzelin; 7-*O*- α -L-Arabinopyranoside, *in* A-10030
Afzelin; *O*'- β -D-Xylopyranoside, *in* A-10030
Morindin, *in* T-10160
- C₂₆H₂₈O₁₅**
Cesioside, *in* T-10052
Graveobioside A, *in* T-10052
Lucentin 3, L-10067
Luteolin; 7-*O*-[α -L-Arabinofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], *in* T-10052
Luteolin; 7-*O*-[α -L-Arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], *in* T-10052
Luteolin; 7-*O*-(Arabinosylglucoside), *in* T-10052
Luteolin; 5(7)-Galactoside, 7(5)-xyloside, *in* T-10052
Luteolin; 7-*O*-Sambubioside, *in* T-10052
Luteolin; 3'-*O*-Xylopyranoside, 7-*O*-glucopyranoside, *in* T-10052
Populin; 3-*O*-D-Xyloside, *in* P-10133
Rotundiside, *in* T-10052
Trifolin†; 2''-*O*- β -D-Apiofuranoside, *in* T-10123
Trifolin†; 6''-*O*-L-Arabinopyranoside, *in* T-10123
Trifolin†; 2''-*O*- β -D-Xylopyranoside, *in* T-10123
- C₂₆H₂₉NO₉**
13-Deoxocarminomycin I, *in* F-10007
6-Deoxyoxaunomycin, *in* O-10052
- C₂₆H₂₉NO₁₀**
1-Hydroxy-13-deoxocarminomycin I, *in* F-10007
Oxaunomycin, O-10052
- C₂₆H₂₉NO₁₁**
1-Hydroxyoxaunomycin, *in* O-10052
- C₂₆H₃₀O₁₁**
Simplexoside, *in* P-10120
- C₂₆H₃₀O₁₅**
Desacetylgentiabavarutinoside, *in* T-10073
Gentiabavaroside, *in* T-10073
Gentiaculoside, *in* T-10073
Norswertianine; 2,6-Di-Me ether, 8-*O*-primeveroside, *in* T-10073
Norswertianine; 2,8-Di-Me ether, 1-*O*-primeveroside, *in* T-10073
Okanin; 4'-*O*-[α -L-Arabinofuranosyl(1 \rightarrow 4)- β -D-glucopyranoside], *in* P-10040
- C₂₆H₃₁NO₄**
▶ Ancistrocline, *in* A-10084
Ancistroalaensine, *in* A-10083
Anistrocline, *in* A-10083
O-Methylancistrocladine, *in* A-10083
- C₂₆H₃₁N₃O₄**
Cadabicine methyl ether, *in* C-10001
- C₂₆H₃₁N₃O₅**
Capparisine, C-10020
Isocodonocarpine, *in* C-10001
- C₂₆H₃₂O₅**
O-Prenylismione E, *in* V-10032
Scoparic acid C, *in* H-10196
- C₂₆H₃₂O₆**
Deacetylnimbinene, *in* N-10027
- C₂₆H₃₂O₇**
Nimbandiol, N-10026
Scillicyanogenin, *in* T-10176
- C₂₆H₃₂O₁₁**
Dehydrobrucein A, *in* D-10029
- C₂₆H₃₂O₁₃**
7-Caffeoylloganin, *in* L-10059
- C₂₆H₃₃NO₆**
Venudelpine, V-10017
- C₂₆H₃₄O₅**
7,21-Dihydroxy-3-oxo-24,25,26,27-tetranorapotirucalla-1,14,20(22)-trien-23,21-olide, *in* D-10224
- C₂₆H₃₄O₆**
Celafolin B1, *in* T-10138
Celafolin B2, *in* T-10138
- C₂₆H₃₄O₇**
Celorbicol; 9-Benzoyl, 1,6-Di-Ac, *in* T-10139
Cinobufaginol, *in* E-10155
Forrestin G, *in* T-10153
Hellebrigenin; 3-Ac, *in* T-10175
Triptogelin E2, *in* T-10138
- C₂₆H₃₄O₈**
1,6,8,9-Tetrahydroxydihydro- β -agarofuran; 9-Benzoyl, 1,6-di-Ac, *in* T-10042
- C₂₆H₃₄O₉**
Adenanthin, *in* K-10007
2-*O*- α -L-Fucopyranosyl-L-fucose; Benzyl glycoside, 2'-benzyl, *in* F-10023
Shikokianidin, *in* E-10119
Teucrolin C, *in* D-10066
- C₂₆H₃₄O₁₀**
9 α ,14-Diacetoxy-1 α -benzoyloxy-4 β ,6 β ,8 β -trihydroxydihydro- β -agarofuran, *in* H-10054
Eumaitenin, *in* T-10042
Malkanguniol; 9-(3-Furoyl), 1,8,14-tri-Ac, *in* T-10043
2,8,10,11-Tetrahydroxy-3-slovenolide; 8-(3-Methyl-2-butenoyl), 2,10,11-tri-Ac, *in* T-10053
Teucrolin A, *in* T-10120
- C₂₆H₃₄O₁₂**
1,4,5,8,10,13-Hexahydroxy-7(11)-muurolen-12,6-olide; 13-Tigloyl, 5,8,10-tri-Ac, *in* H-10058
- C₂₆H₃₅NO₆**
Lactimidomycin, L-10016
- C₂₆H₃₆O₅**
7,21-Dihydroxy-3-oxo-24,25,26,27-tetranorapotirucalla-14,20(22)-dien-23,21-olide, D-10224
4-*O*-Methylvaldivone A, *in* D-10162
- C₂₆H₃₆O₈**
Taxinine A, *in* T-10070
- C₂₆H₃₆O₉**
Fischeriana B, *in* C-10037
Rabdosianin A, *in* E-10119
Weisiensin A, *in* K-10007
- C₂₆H₃₆O₁₀**
2,8,10,11-Tetrahydroxy-3-slovenolide; 8-(2-Methylbutanoyl), 2,10,11-tri-Ac, *in* T-10053
- C₂₆H₃₆O₁₁**
6-Hydroxyboschnalioside; 6-(2,6-Dimethyl-8-oxo-2*E*,6 ξ -octadienyl), *in* H-10091
- C₂₆H₃₆O₁₇**
4-*O*- β -D-Glucopyranosyl-L-rhamnose; Hepta-Ac, *in* G-10072
- C₂₆H₃₆O₁₈**
Acaciaburonic acid; Me glycoside, hexa-Ac, Me ester, *in* A-10011
4-*O*- α -D-Galactopyranuronosyl-D-galactose; Me glycoside, 6'-Me ester, hexa-Ac, *in* G-10013
- C₂₆H₃₇NO₇**
Barbinidine, *in* D-10033
- C₂₆H₃₇NO₈**
Pergilone, P-10080
- C₂₆H₃₈O**
2-(3,7,11,15-Tetramethyl-2,6,10,14-hexadecatetraenyl)benzene, T-10075
- C₂₆H₃₈O₄**
22-Hydroxy-24-methyl-12,24-dioxo-16-scalaren-25-al, H-10185
- C₂₆H₃₈O₅**
▶ Ingenol; 20-Deoxy, 3-hexanoyl, *in* I-10012
- C₂₆H₃₈O₇**
15,16-Epoxy-3,12-clerodadiene-14,15,16-triol; Tri Ac, *in* E-10043

- 15,16-Epoxy-4(18),12-clerodadiene-14,15,16-triol; Tri-Ac, *in* E-10044
3,10(18),14-Prenylguaiaatriene-6,9,12,13-tetrol; 6,12,13-Tri-Ac, *in* P-10147
- C₂₆H₃₈O₉**
Forrestin C, *in* K-10007
16-Kaurene-1,3,6,7,11,15-hexol; 7,11,15-Tri-Ac, *in* K-10007
2,8,10,11-Tetrahydroxy-3-slovenolide; 2-(2-Methylbutanoyl), 8-butanoyl, 10-Ac, *in* T-10053
- C₂₆H₃₈O₁₁**
6-Hydroxyboschnaloid; 6-(8-Hydroxy-2,6-dimethyl-2E,6E-octadienyl), *in* H-10091
Shinjuglycoside D, *in* A-10053
- C₂₆H₃₈O₁₂**
Casteloside C, C-10035
- C₂₆H₃₉NO₃**
Metachromin H, M-10036
- C₂₆H₃₉NO₇**
Aranorosinol B, A-10113
- C₂₆H₄₀O₂**
3-Hydroxy-24-norcholesta-5,22-dien-7-one, H-10193
- C₂₆H₄₀O₃**
12-Hydroxy-24-methyl-24-oxo-16-scalaren-25-al, H-10187
3-Hydroxy-24,25,26,27-tetranorcyκλοartan-23,21-olide, H-10231
- C₂₆H₄₀O₄**
Glaciasterol A, G-10037
- C₂₆H₄₀O₅**
16,22-Dihydroxy-24-methyl-12,24-dioxo-25-scalaranal, D-10200
- C₂₆H₄₀O₆**
Asbestinin 1, *in* A-10130
Asbestinin 2, A-10130
- C₂₆H₄₀O₇**
Asbestinin epoxide, *in* A-10130
Palmonine B, *in* E-10084
- C₂₆H₄₀O₈**
Clerodinin C, C-10110
Clerodinin D, *in* C-10110
Gomojoside P, *in* D-10188
15-Hydroxy-16-kaurene-19-oxic acid; β -D-Allopyranosyl ester, *in* H-10170
Paniculoside I, *in* H-10170
- C₂₆H₄₀O₁₀**
Andrographiside, *in* T-10156
- C₂₆H₄₀O₁₁**
Parvifoliside, *in* E-10119
Rabdoside I, *in* E-10121
Shikokiaside A, *in* E-10119
- C₂₆H₄₁NO₆**
Deoxydelcorine, *in* N-10052
Paciline, *in* D-10033
Peregrine, *in* B-10021
- C₂₆H₄₁NO₇**
Nuttalianine, *in* S-10046
- C₂₆H₄₁NO₈**
6-Epipubescenine, *in* P-10169
19-Oxodelphatine, *in* D-10032
Pubescenine†, P-10169
- C₂₆H₄₂N₂O**
N^b-Demethylharappamine, *in* H-10003
- C₂₆H₄₂N₂O₆S**
Leukotriene D₄; Me ester, *in* L-10047
- C₂₆H₄₂N₆O₆**
Matlystatin E, M-10022
- C₂₆H₄₂O₄**
24,25-Epoxy-24-methyl-16-scalarene-12,22,25-triol, E-10129
3,6,11-Trihydroxy-24-nor-9,11-secocholesta-7,22-dien-9-one, T-10168
- C₂₆H₄₂O₆**
Deacetylomentosin, *in* P-10138
- C₂₆H₄₂O₇**
Calocin, *in* P-10139
3-Clerodene-7,15,16,18-tetrol; 15,16,18-Tri-Ac, *in* C-10107
- C₂₆H₄₂O₈**
Gomojoside Q, *in* D-10189
- C₂₆H₄₂O₉**
16,17,19-Kauranetriol; 19-Carboxylic acid, 19- β -D-glucopyranosyl ester, *in* K-10005
Paniculoside IV, *in* K-10005
Suavioside E, *in* K-10005
- C₂₆H₄₃NO₇**
Delphatine, D-10032
- C₂₆H₄₄O₈**
Gomojoside M, *in* L-10007
Gomojoside N, *in* L-10005
Gomojoside O, *in* L-10006
- C₂₆H₄₅NO₂₁**
 β -D-Galactopyranosyl-(1 \rightarrow 3)-2-acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 4)-D-glucose, G-10002
Lacto-N-neotetraose, *in* G-10004
- C₂₆H₄₆O₃**
4,7-Epoxy-11-eremophilanol; Undecanoyl, *in* E-10080
- C₂₆H₄₆O₈**
Gomojoside L, *in* L-10011
- C₂₆H₄₆O₁₂**
Atractyloside D, *in* E-10218
- C₂₆H₄₈N₅O₃**
Efrapeptin B, E-10007
- C₂₆H₄₈O₂**
17,20-Hexacosadienoic acid, H-10036
- C₂₆H₅₀O**
19-Hexacosenal, H-10037
- C₂₆H₅₀O₄**
Cerebronic acid; Ac, *in* H-10229
- C₂₇H₂₀O₁₈**
Castalin, C-10032
- C₂₇H₂₂O₆**
Rubioncolin C, R-10056
- C₂₇H₂₂O₁₈**
Juglanin†, J-10006
- C₂₇H₂₂O₁₉**
Lagerstannin C, L-10019
- C₂₇H₂₆O₁₆**
3-Methoxy-4-hydroxyphenyl 1-O-2,6-di-O-galloyl- β -D-glucopyranoside, *in* B-10013
- C₂₇H₂₆O₁₈**
Luteolin; 3',4'-Di-O-galacturonoside, *in* T-10052
Luteolin; 3',7-Di-O-galacturonoside, *in* T-10052
Luteolin; 3',4'-Di-O-glucuronoside, *in* T-10052
Luteolin; 3',7-Di-O-glucuronoside, *in* T-10052
Luteolin; 4',7-Di-O-glucuronoside, *in* T-10052
Luteolin; 7-O-[Glucuronosyl-(1 \rightarrow 2)-glucuronoside], *in* T-10052
- C₂₇H₂₈O₄**
Spirasineol A, S-10093
Spirasineol B, S-10094
- C₂₇H₂₈O₁₀**
Acuminatin†, *in* C-10099
- C₂₇H₂₈O₁₅**
Campanoside, *in* T-10052
- C₂₇H₂₈O₁₆**
Luteolin; 4'-O-Rhamnoside, 7-O-glucuronoside, *in* T-10052
- C₂₇H₂₈O₁₇**
Luteolin; 4'-O- β -D-Glucopyranoside, 7-O- β -D-galacturonoside, *in* T-10052
- Luteolin; 3'-O-Glucopyranoside, 7-O-glucuronoside, *in* T-10052
Luteolin; 7-O-(Glucosylglucuronoside), *in* T-10052
Populnin; 3-O- β -D-Glucuronoside, *in* P-10133
- C₂₇H₂₉NO₆**
Speciocolchicine, *in* S-10086
Specioritchine, *in* S-10086
Specioseine, *in* S-10086
- C₂₇H₂₉NO₉**
4'-O-Methylstephavanine, *in* S-10116
- C₂₇H₃₀O₈**
▷ Daphnetoxin, D-10012
- C₂₇H₃₀O₁₀**
Brownin E, B-10049
- C₂₇H₃₀O₁₂**
Demethylsteffimycin, *in* S-10109
- C₂₇H₃₀O₁₄**
Genkwanin; 4'-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)- β -D-xylopyranoside], *in* D-10195
Genkwanin; 5-O-[α -D-Xylopyranosyl(1 \rightarrow 6)- β -D-glucopyranoside], *in* D-10195
▷ Kaempferitrin, *in* A-10030
Luteolin; 7-O-Di- α -L-rhamnopyranoside, *in* T-10052
Morindone 6- β -rutinoside, *in* T-10160
Nivyaside, N-10033
1,3,8-Trihydroxy-2-methylanthraquinone; 3-O-Neohesperidoside, *in* T-10161
1,3,8-Trihydroxy-2-methylanthraquinone; 3-O-Rutinoside, *in* T-10161
Yuankanin, *in* D-10195
- C₂₇H₃₀O₁₅**
6,8-Diglycosyl-3',4',7-trihydroxyflavone, D-10091
6-Glucopyranosyl-8-xylopyranosylchrysoeriol, *in* L-10067
Luteolin; 7-O-(Glucosylrhamnoside), *in* T-10052
Luteolin; 4'-O-Neohesperidoside, *in* T-10052
Luteolin; 7-O-(Rhamnosylglucoside), *in* T-10052
Multiflorin B, *in* A-10030
Populnin; 3-O- α -L-Rhamnopyranoside, *in* P-10133
Rheinanthrone; O-Diglycoside, *in* D-10094
Scolymoside, *in* T-10052
Trifolin†; 2'-O- α -L-Rhamnopyranoside, *in* T-10123
Veronicastroside, *in* T-10052
- C₂₇H₃₀O₁₆**
Glucoluteoloside, *in* T-10052
Kaempferol 3,5-digalactoside, *in* T-10123
Kaempferol 3-digalactoside, *in* T-10123
Luteolin; 7-O-[β -D-Allopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], *in* T-10052
Luteolin; 7-O-Digalactoside, *in* T-10052
Luteolin; 3',4'-Di-O-glucopyranoside, *in* T-10052
Luteolin; 3',7-Di-O-glucopyranoside, *in* T-10052
Luteolin; 4',7-Di-O-glucopyranoside, *in* T-10052
Luteolin 7-diglycoside, *in* T-10052
Luteolin; 7-O-[β -D-Galactopyranosyl-(1 \rightarrow 6)- β -D-galactopyranoside], *in* T-10052
Luteolin; 7-O-(Galactosylglucopyranoside), *in* T-10052
Luteolin; 4'-O-Glucopyranoside, 7-O-galactopyranoside, *in* T-10052
Luteolin; 7-O-(β -D-Glucopyranosylgalactoside), *in* T-10052
Luteolin; 7-O-Laminariboside, *in* T-10052
Panasenoside, *in* T-10123
Trifolin†; 7-O- β -D-Galactopyranoside, *in* T-10123
Trifolin†; 6'-O- β -D-Glucopyranoside, *in* T-10123
- C₂₇H₃₀O₁₈**
Taxifolin; 3-O-[β -D-Galactopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], *in* P-10050

- C₂₇H₃₀O₁₈S**
Luteolin; 3'-*O*-Rutinoside, 7-*O*-sulfate, in T-10052
Luteolin; 7-*O*-(Sulfooxyrutinoside), in T-10052
- C₂₇H₃₁NO₉**
Feudomycin A, F-10007
- C₂₇H₃₂O₅**
Euphorbia factor P₂, in I-10012
- C₂₇H₃₂O₆**
Acetylismione D, in D-10102
Scutellone E, in D-10217
- C₂₇H₃₂O₁₃**
Cytifolioside, C-10174
Marginoside, in T-10129
- C₂₇H₃₂O₁₄**
1,8-Dihydroxy-3-(hydroxymethyl)-9(10*H*)-anthracenone; *O*-Diglucoside, in D-10179
- C₂₇H₃₂O₁₅**
Norswertianine; 1,2,6-Tri-Me ether, 8-primeveroside, in T-10073
Okanin; 4-Me ether, 4'-*O*-primveroside, in P-10040
Taxifolin; 3,5-*Di-O-α-L*-Rhamnopyranoside, in P-10050
- C₂₇H₃₂O₁₆**
Huangquioside E, in P-10050
Taxifolin; 3-*O*-[β-D-Glucopyranosyl(1→4)-α-L-rhamnopyranoside], in P-10050
- C₂₇H₃₃NO₄**
Ancistrocladonine, A-10084
- C₂₇H₃₄O₄**
Grandiflorolic acid; Benzoyl, in H-10170
- C₂₇H₃₄O₇**
Scuterivulactone D, in T-10039
- C₂₇H₃₄O₁₁**
Borapetoside F, in E-10099
- C₂₇H₃₄O₁₂**
Borapetoside G, in E-10062
Eucommin A, in M-10024
Isoeucommin A, in M-10024
- C₂₇H₃₄O₁₄**
10-Acetoxyglugostroside, in O-10033
- C₂₇H₃₄O₁₅**
10-Acetoxyeuropein, in O-10033
- C₂₇H₃₆N₄O₆**
1-Alaninechlamydocin, A-10038
- C₂₇H₃₆O₆**
Luffarin S, in L-10076
- C₂₇H₃₆O₇**
Euphorbia factor Pe₁, in I-10012
Euphorbia factor Q₁, in I-10012
8,10,12-Trihydroxy-3-longipinen-5-one; 12-Angeloyl, 8-(3-methyl-2-butenoyl), 10-Ac, in T-10158
8,10,12-Trihydroxy-3-longipinen-5-one; 8,12-Diangeloyl, 10-Ac, in T-10158
- C₂₇H₃₆O₁₁**
Borapetoside C, in E-10102
Borapetoside E, in E-10104
Epitinothylloside, in E-10101
Quassamarin, in S-10064
Tinophyllolloside, in E-10101
- C₂₇H₃₆O₁₂**
Borapetoside B, in E-10062
- C₂₇H₃₆O₁₄**
3-*O*-β-D-Glucopyranosyl-L-rhamnose; Benzyl glycoside, 2',3',4',6'-tetra-Ac, in G-10071
Sylvestroside IV, S-10137
- C₂₇H₃₆O₁₉**
Acaciabiuronic acid; Hepta-Ac, Me ester, in A-10011
- C₂₇H₃₈N₂O₈**
▶ Prajmalium bitartrate, in A-10035
- C₂₇H₃₈O₈**
Ingol; 8-Tigloyl, 12-Ac, in I-10013
- C₂₇H₃₈O₉**
2,8,10,11-Tetrahydroxy-3-slovenolide; 2-*O*-(2-Methylbutanoyl), 8-*O*-angeloyl, 11-Ac, in T-10053
Tirucalicine, in I-10013
- C₂₇H₃₈O₁₃**
Laciniatoside III, L-10013
- C₂₇H₃₈O₁₄**
Laciniatoside I, in S-10137
Laciniatoside IV, in S-10137
- C₂₇H₃₉NO₇**
Tatsiensine, in D-10033
Tubasencine, T-10208
- C₂₇H₄₀O₃**
3-Hydroxycholesta-5,22-diene-7,24-dione, H-10096
- C₂₇H₄₀O₄**
12,24-Dihydroxy-20,24-dimethyl-15,17-scalaradien-25,24-olide, D-10137
Isoscalarafuran A, in E-10146
Isoscalarafuran B, in E-10146
Sisalagenone, in S-10099
- C₂₇H₄₀O₅**
Luffarin D, in L-10071
- C₂₇H₄₀O₈**
Ajugamarin F2, in E-10156
Ajugamarin F3, in E-10156
- C₂₇H₄₀O₉**
Ajugamarin B3, in E-10150
Ajugamarin B4, in E-10150
Ajugamarin E1, in E-10150
Ajugamarin E2, in E-10150
Scutegalin B, in T-10121
2,8,10,11-Tetrahydroxy-3-slovenolide; 8-(2-Methylbutanoyl), 2-(3-methylbutanoyl), 10-Ac, in T-10053
- C₂₇H₄₁NO₇**
6-Acetyldepheline, in D-10033
- C₂₇H₄₁NO₈**
Delstaphisinine, in S-10046
- C₂₇H₄₂N₂O₂**
Papillamide, in H-10003
- C₂₇H₄₂O₂**
3-Hydroxycholesta-5,22-dien-7-one, H-10097
- C₂₇H₄₂O₃**
3-Hydroxycholest-5-ene-7,24-dione, H-10099
- C₂₇H₄₂O₄**
12,16-Dihydroxy-20,24-dimethyl-17-scalaran-25,24-olide, D-10138
12-Hydroxyspirostan-3-one, H-10224
Spirost-5-ene-3,24-diol, S-10101
- C₂₇H₄₂O₅**
3,23-Dihydroxyspirostan-26-one, D-10253
22,25-Epoxyfurost-5-ene-1,3,26-triol, E-10088
Spirost-5-ene-1,3,25-triol, S-10102
- C₂₇H₄₂O₆**
3,15,23-Trihydroxyspirostan-26-one, T-10191
- C₂₇H₄₂O₇**
22,25-Epoxy-2,3,5,14,20-pentahydroxycholest-7-en-6-one, E-10142
- C₂₇H₄₂O₁₀S**
Forbeside E3, in D-10245
- C₂₇H₄₃NO**
Solaniidine, S-10072
- C₂₇H₄₃NO₂**
Camtschatcanidine, in S-10072
Etioline, E-10206
25-Isoetioline, in E-10206
- C₂₇H₄₃NO₃**
Ebeietinone, E-10001
15-Oxosoladulcidine, in S-10071
- C₂₇H₄₃NO₆**
14-*O*-Methylperegriene, in B-10021
- C₂₇H₄₄N₂O**
Harappamine, H-10003
- C₂₇H₄₄N₆O₆**
Matlystatin D, M-10021
Matlystatin F, M-10023
- C₂₇H₄₄O₂**
Cholesta-5,22-diene-3,7-diol, C-10087
Cholesta-8(14),24-diene-3,6-diol, C-10088
3-Hydroxy-25,26,27-trinorcyctoartan-24-al, H-10235
- C₂₇H₄₄O₃**
Cholesta-9(11),24-diene-3,6,20-triol, C-10089
- C₂₇H₄₄O₄**
12,16-Dihydroxy-20,24-dimethyl-24-oxo-25-scalaranal, D-10136
9,11-Epoxycholest-7-ene-3,5,6-triol, E-10042
24,25-Epoxy-16,24-dihydroxy-20,24-dimethyl-12-scalaranone, E-10064
Glaciasterol B, G-10038
Spirostane-3,12-diol, S-10099
3,6,20-Trihydroxycholest-9(11)-en-23-one, T-10135
- C₂₇H₄₄O₅**
7,16,17-Kauranetriol; 17-(2-Methylbutanoyl), 7-Ac, in K-10004
Spirostane-3,17,21-triol, S-10100
- C₂₇H₄₄O₆**
Calocinin, in P-10139
Hemidine, in P-10139
Indicine†, in P-10139
Periplocoside N, in P-10140
- C₂₇H₄₄O₆S**
Cholesta-9(11),24-diene-3,6,20-triol; 3-*O*-Sulfate, in C-10089
- C₂₇H₄₄O₇**
2,3,14,20,24,25-Hexahydroxycholest-7-en-6-one, H-10053
- C₂₇H₄₄O₉**
Butyrolactol B, B-10056
- C₂₇H₄₄O₁₀S**
Forbeside E1, in P-10141
Forbeside E2, in P-10141
- C₂₇H₄₄O₁₃**
Atractylloside I, in D-10160
- C₂₇H₄₄O₁₃S₂**
Forbeside E, in P-10141
- C₂₇H₄₅NO₂**
Capsimine, in E-10206
Isoteinimine, in E-10206
Soladulcidine, S-10071
Teinimine, in E-10206
- C₂₇H₄₅NO₃**
23*R*-Hydroxysoladulcidine, in S-10071
2α-Hydroxysoladulcidine, in S-10071
15α-Hydroxysoladulcidine, in S-10071
15β-Hydroxysoladulcidine, in S-10071
- C₂₇H₄₅NO₁₀S**
Carolisterol B, in C-10026
- C₂₇H₄₆O**
22,29,30-Trinor-21-hopanol, T-10201
- C₂₇H₄₆O₂**
3-Hydroxycholestan-6-one, H-10098
- C₂₇H₄₆O₅**
Cholest-4-ene-3,6,8,15,24-pentol, C-10092
Cholest-22-ene-3,6,8,15,24-pentol, C-10093
Furostane-3,6,22,26-tetrol, F-10037
Furostane-3,17,22,26-tetrol, F-10038
- C₂₇H₄₆O₆**
Furostane-3,14,17,22,26-pentol, F-10036
- C₂₇H₄₆O₈**
Microlepin, in K-10005
- C₂₇H₄₇NO₉S**
Carolisterol C, in C-10026

- C₂₇H₄₇NO₁₀S
Carolisterol A, C-10026
- C₂₇H₄₇N₅O₈S
Matlystatin A, M-10019
- C₂₇H₄₈O₅
Cholestane-3,6,8,15,24-pentol, C-10091
- C₂₇H₄₈O₆
Cholestane-3,4,6,8,15,24-hexol, C-10090
- C₂₇H₄₈O₈S
Cholestane-3,6,8,15,24-pentol; 24-Sulfate, *in* C-10091
- C₂₇H₄₉N₆O₂
 α -Agatoxin AG 488, A-10033
- C₂₇H₄₉N₆O₃
 α -Agatoxin AG 504, *in* A-10033
- C₂₇H₅₀O₂
17,20-Hexacosadienoic acid; Me ester, *in* H-10036
- C₂₇H₅₂O₂
20-Heptacosenoic acid, H-10015
- C₂₈H₂₂O₁₂
BL II, *in* P-10056
- C₂₈H₂₄O₆
Gnetin F, G-10104
- C₂₈H₂₄O₇
Tricuspidatol A, T-10117
- C₂₈H₂₄O₁₅
Populnin; 6'-*O*-(3,4,5-Trihydroxybenzoyl), *in* P-10133
- C₂₈H₂₆O₁₆
Taxillusin, *in* P-10050
- C₂₈H₂₈O₉
4,7-Didehydroneophysalin B, D-10061
- C₂₈H₂₈O₁₁
Dehydrobruceantarin, *in* D-10029
- C₂₈H₃₀O₉
25,27-Dihydro-4,7-didehydro-7-deoxyphysalin A, D-10092
Isophysalin B, I-10040
- C₂₈H₃₀O₁₀
Isophysalin G, I-10041
Physalin P, P-10108
- C₂₈H₃₀O₁₃
▷ Steffimycin, S-10109
- C₂₈H₃₀O₁₆
Trifolin†; 6'-*O*-(2-*O*-Acetyl- α -L-arabinopyranoside), *in* T-10123
- C₂₈H₃₁NO₅
Speciosamine, *in* S-10086
- C₂₈H₃₁NO₆
▷ Speciosine, S-10086
- C₂₈H₃₂O₆
1-(3,7-Dimethyl-2,6-octadienyl)-2,3,6,8-tetrahydroxy-7-(3-methyl-2-butenyl)xanthone, D-10280
Nervosaxanthone, N-10024
2,3,6,8-Tetrahydroxy-1-(3,7-dimethyl-2,6-octadienyl)-5-prenylxanthone, T-10046
- C₂₈H₃₂O₁₂
Steffimycin D, *in* S-10109
- C₂₈H₃₂O₁₃
10-Dihydrosteffimycin, *in* S-10109
- C₂₈H₃₂O₁₄
Fasciculatin †, *in* D-10195
Genkwanin; 4'-*O*-Glucosylrhamnoside, *in* D-10195
- C₂₈H₃₂O₁₅
Wikstroemin, *in* D-10195
- C₂₈H₃₂O₁₆
Gentiabavarutinoside, *in* T-10073
- C₂₈H₃₃NO₉
Tripterregeline B, *in* H-10054
- C₂₈H₃₃N₃O₆
15-*N*-Acetylcapparisine, *in* C-10020
14-*N*-Acetyliscodonocarpine, *in* C-10001
- C₂₈H₃₄O₅
Valdivone B, *in* D-10162
- C₂₈H₃₄O₇
Nimbinene, N-10027
- C₂₈H₃₄O₈
6-Acetylnimbandiol, *in* N-10026
- C₂₈H₃₄O₁₁
Dehydrobruceantin, *in* D-10029
6 β ,9 α ,14-Triacetoxyl-1 α -benzoyloxy-4 β -hydroxy-8-oxodihydro- β -agarofuran, *in* H-10054
- C₂₈H₃₄O₁₂
Dehydrobruceantol, *in* D-10029
- C₂₈H₃₄O₁₅
Isonuomioside A, I-10039
- C₂₈H₃₄O₁₆
Anacheiloside, *in* P-10050
2,4-Diglucosyl-1-hydroxy-3,6,7-trimethoxyxanthone, *in* D-10090
- C₂₈H₃₅NO₁₁
Colchicin *autumnale* Alkaloid M, *in* L-10082
- C₂₈H₃₆O₃
▷ Tingenin A, T-10091
- C₂₈H₃₆O₄
20-Hydroxytytingenone, *in* T-10091
Isowithametelin, *in* W-10004
Tingenin B, *in* T-10091
Withametelin, W-10004
- C₂₈H₃₆O₅
15 α ,22 β -Dihydroxytytingenone, *in* T-10091
Withametelin F, *in* W-10004
- C₂₈H₃₆O₆
14,20-Epoxy-17,27-dihydroxy-1-oxowitha-3,5,24-trienolide, E-10073
- C₂₈H₃₆O₇
12-*O*-Benzoyldesacetylmetaplexigenin, *in* P-10059
Isocolorbicol; 1-*E*-Cinnamoyl, 2,9-di-Ac, *in* T-10138
Scutellone I, *in* T-10039
Triptogelin F2, *in* T-10139
- C₂₈H₃₆O₈
Excoecaria factor O₂, *in* D-10012
Hellebrigenin; 3,5-Di-Ac, *in* T-10175
Isocolorbicol; 9-(2,3-Epoxy-cinnamoyl), 1,2-di-Ac, *in* T-10138
- C₂₈H₃₆O₉
Angulatueoid C, *in* T-10043
Celafolin C1, *in* T-10042
6 β ,9 β -Diacetoxyl-1 α -cinnamoyloxy-2 β ,4 β -dihydroxydihydro- β -agarofuran, *in* P-10045
Forrestin F, *in* T-10057
1,8,9,14-Tetrahydroxydihydro- β -agarofuran; 9-Benzoyl, 1,8,14-tri-Ac, *in* T-10043
1,8,9,14-Tetrahydroxydihydro- β -agarofuran; 9-Benzoyl, 1,8,14-tri-Ac, *in* T-10043
1 α ,6 β ,8 β -Triacetoxyl-9 α -benzoyloxydihydro- β -agarofuran, *in* T-10042
- C₂₈H₃₆O₁₀
1,4,6,8,14-Pentahydroxydihydro- β -agarofuran; 9-Benzoyl, 1,6,14-tri-Ac, *in* P-10047
Rzedowskin A, *in* P-10045
- C₂₈H₃₆O₁₁
ent-5 α ,11-Epoxy-1 β ,4 α ,6 α ,8 β ,9 β ,14-eudesmanehexol; 9-Benzoyl, 1,6,15-tri-Ac, *in* H-10054
ent-5 α ,11-Epoxy-1 β ,4 α ,6 α ,8 β ,9 β ,14-eudesmanehexol; 9-Benzoyl, 6,8,15-tri-Ac, *in* H-10054
6 β ,9 α ,14-Triacetoxyl-1 α -benzoyloxy-4 β ,8 β -dihydroxydihydro- β -agarofuran, *in* H-10054
- C₂₈H₃₆O₁₂
Stecholide J, *in* E-10141
- C₂₈H₃₆O₁₃
Stecholide L, *in* E-10141
- C₂₈H₃₆O₁₅
Atrochryson; 6-Me ether, 8-*O*- β -D-gentiobioside, *in* D-10102
Melampyroside; 6'-*O*-Glucopyranoside, *in* M-10026
- C₂₈H₃₆O₁₆
Shanzhiside; 6-(4-Hydroxy-3,5-dimethoxybenzoyl), 8-Ac, Me ester, *in* S-10057
- C₂₈H₃₈O₄
Claraenone, C-10100
27-Hydroxy-3-oxowitha-1,4,24-trienolide, H-10213
- C₂₈H₃₈O₅
5,6-Epoxy-16-hydroxy-1-oxowitha-2,24-dienolide, E-10114
Macrocarpal G, M-10002
Mzikonone, *in* M-10097
- C₂₈H₃₈O₆
5,6-Epoxy-16,17-dihydroxy-1-oxowitha-2,24-dienolide, E-10072
5,6-Epoxy-17-hydroxy-1,12-dioxowith-24-enolide, E-10107
Withafastuosin B, *in* W-10003
Withametelin G, *in* W-10004
- C₂₈H₃₈O₇
Triptogelin E5, *in* T-10138
Triptogelin E6, *in* T-10138
- C₂₈H₃₈O₈S
Daturametelin F, D-10016
- C₂₈H₃₈O₉
Taxinine H, *in* T-10070
- C₂₈H₃₈O₁₀
Ingol; Tetra-Ac, *in* I-10013
Rabdosianin B, *in* E-10119
- C₂₈H₃₈O₁₁
Ajugapantian A, *in* E-10150
- C₂₈H₃₈O₁₂
Teulamioside, *in* D-10074
- C₂₈H₃₈O₁₃
Stecholide N, *in* E-10096
- C₂₈H₃₉NO
Emeniveol, E-10012
- C₂₈H₄₀O₅
22-Hydroxy-24-methyl-12,24-dioxo-16-scalaren-25-al; Ac, *in* H-10185
Mzikonol, M-10097
- C₂₈H₄₀O₆
Macrocarpal D, M-10001
Usneoidol E, U-10014
Usneoidol Z, *in* U-10014
Withafastuosin A, W-10003
- C₂₈H₄₀O₈
Amaloside D, *in* T-10186
Cynatratoside A, *in* G-10039
- C₂₈H₄₀O₉
Glaucogenin C; 3-*O*- β -D-Thevetoside, *in* G-10039
- C₂₈H₄₀O₁₀
Ajugachin A, *in* T-10122
Forrestin D, *in* K-10007
- C₂₈H₄₀O₁₂
Shinjuglycoside C, *in* A-10053
- C₂₈H₄₀O₁₅
Laciniatoside VI, L-10014
- C₂₈H₄₁ClO₄
Kiheisterone C, *in* C-10082

- C₂₈H₄₂O₄**
12-Hydroxy-24-methyl-24-oxo-16-scalaren-25-al; Ac, *in* H-10187
Petuniasterone C, P-10088
- C₂₈H₄₂O₅**
24(23→22)-Abeo-16,23:18,20-diepoxycholesta-5,24-diene-3,18,23-triol, A-10002
- C₂₈H₄₂O₆**
Cynanchogenin, *in* T-10066
Periplocagenin, P-10082
- C₂₈H₄₂O₇**
Caudatin, *in* P-10059
- C₂₈H₄₂O₈**
Amalosite C, *in* T-10188
Baconipyronone B, B-10002
Baconipyronone D, B-10004
5 α ,6 α -Epoxycaudatin, *in* P-10059
- C₂₈H₄₂O₁₀**
Ivain I, *in* T-10122
- C₂₈H₄₃ClO₄**
4-Chloro-3-hydroxy-23-oxoergost-24(28)-en-21-oic acid, C-10082
- C₂₈H₄₃N₅O₁₂S**
Ustiloxin, U-10015
- C₂₈H₄₄N₂O₂**
N-Formylharappamine, *in* H-10003
- C₂₈H₄₄O₂**
3-Hydroxyergosta-5,22-dien-7-one, H-10134
- C₂₈H₄₄O₃**
3,25-Dihydroxyergosta-5,24(28)-dien-7-one, D-10155
8,9-Epoxyergosta-5,22-diene-3,15-diol, E-10081
Ergosta-7,22,25-triene-3,5,6-triol, E-10182
- C₂₈H₄₄O₅**
Asbestinin 8, *in* A-10130
22-Hydroxy-20-methyldeoxoscalarin, *in* E-10129
3,6,11-Trihydroxy-24-nor-9,11-secocholesta-7,22-dien-9-one; 11-Ac, *in* T-10168
- C₂₈H₄₄O₇**
Tomentosin, *in* P-10138
- C₂₈H₄₄O₁₀**
16,17,19-Kauranetriol; 19-Carboxylic acid, β -D-glucopyranosyl ester, 16-Ac, *in* K-10005
16,17,19-Kauranetriol; 19-Carboxylic acid, β -D-glucopyranosyl ester, 17-Ac, *in* K-10005
16,17,19-Kauranetriol; 19-Carboxylic acid, 19- β -D-glucopyranosyl ester, 17-Ac, *in* K-10005
- C₂₈H₄₆O**
Ergosta-16,20(22)-dien-3-ol, E-10175
Ergosta-17(20),22-dien-3-ol, E-10176
- C₂₈H₄₆O₂**
Ergosta-5,22-diene-3,7-diol, E-10173
Ergosta-5,24(28)-diene-3,7-diol, E-10174
- C₂₈H₄₆O₃**
24,28-Epoxyergost-5-ene-3,7-diol, *in* E-10174
- C₂₈H₄₆O₅**
Archidorin, A-10115
- C₂₈H₄₆O₇**
Periplocoside L, *in* P-10140
Tomentonin, *in* P-10138
- C₂₈H₄₆O₉**
Butyrolactol A, B-10055
- C₂₈H₄₈O**
14-Methylcholestan-3-one, M-10049
- C₂₈H₄₈O₂**
Ergost-5-ene-3,7-diol, E-10183
3-Methoxycholestan-6-one, *in* H-10098
- C₂₈H₄₈O₃**
Ergost-5-ene-3,22,25-triol, E-10187
Ergost-24(28)-ene-3,5,6-triol, E-10188
- C₂₈H₄₈O₄**
Ergost-5-ene-3,7,24,28-tetrol, E-10186
- C₂₈H₄₈O₆**
Ergost-22-ene-3,6,8,15,16,28-hexol, E-10184
Ergost-24-ene-3,4,6,8,15,26-hexol, E-10185
- C₂₈H₅₀N₂O₃**
Demethylxestospongine B, *in* X-10010
- C₂₈H₅₀N₄O₇**
Epoxomicin, E-10030
- C₂₈H₅₀O₂**
Ergostane-3,22-diol, E-10177
- C₂₈H₅₀O₄**
Ergostane-3,5,6,7-tetrol, E-10181
- C₂₈H₅₀O₅**
Ergostane-3,5,6,7,15-pentol, E-10180
- C₂₈H₅₀O₆**
Ergostane-3,6,8,15,16,28-hexol, E-10179
- C₂₈H₅₀O₇**
Ergostane-3,4,6,8,15,16,28-heptol, E-10178
- C₂₈H₅₂O₁₁**
Muricatin B, *in* H-10160
- C₂₈H₅₄O₂**
21-Octacosenoic acid, O-10006
23-Octacosenoic acid, O-10007
- C₂₉H₂₈N₄**
Usambarensine, U-10013
- C₂₉H₂₈O₁₃**
Taxifolin; 3'-*O*-(6-*O*-Phenylacetyl- β -D-glucopyranoside), *in* P-10050
- C₂₉H₃₀N₂O₄**
O-Benzoylvincamajine, *in* V-10023
- C₂₉H₃₀N₄**
19,20-Dihydrousambarensine, *in* U-10013
- C₂₉H₃₀O₁₂**
Amaroparin, *in* S-10135
- C₂₉H₃₀O₁₃**
Amarogentin, *in* S-10135
- C₂₉H₃₀O₁₄**
Amaroswerin, *in* S-10136
- C₂₉H₃₀O₁₉**
Tricin; 7-*O*-Diglucuronoside, *in* T-10140
- C₂₉H₃₂O₁₃**
Steffimycin B, *in* S-10109
- C₂₉H₃₂O₁₆**
Multiflorin A, *in* A-10030
- C₂₉H₃₂O₁₇**
Linariifolioside, *in* T-10052
Luteolin; 7-*O*-[6-*O*-Acetylallosyl-(1→2)- β -D-glucopyranoside], *in* T-10052
Populin; 3-*O*-(6-*O*-Acetyl- β -D-glucopyranoside), *in* P-10133
Tricin; 7-*O*-[α -L-Rhamnosyl-(1→2)- α -D-galacturonoside], *in* T-10140
Tricin; 7-*O*-(Rhamnosylglucuronoside), *in* T-10140
- C₂₉H₃₃NO₉**
N,O,O-Trimethylstephavanine, *in* S-10116
- C₂₉H₃₃N₃O₆**
Cadabicine diacetate, *in* C-10001
- C₂₉H₃₄O₆**
Cowanin, *in* D-10280
Isocowanin, *in* T-10046
- C₂₉H₃₄O₇**
Cowanol, *in* D-10280
Isocowanol, *in* T-10046
- C₂₉H₃₄O₈**
Orthosiphonol E, *in* T-10056
- C₂₉H₃₄O₉**
11(15→1)-Abeo-5,20:10,5-diepoxy-2,4,7,13-tetrahydroxy-11-taxen-9-one; 2-Benzoyl, 4-Ac, *in* A-10003
- C₂₉H₃₄O₁₀**
Ecuadorin, E-10005
- C₂₉H₃₄O₁₁**
Crepiside G, *in* D-10175
Crepiside H, *in* D-10175
Crepiside I, *in* D-10175
Ikerisioside A, *in* D-10175
- C₂₉H₃₄O₁₂**
Steffimycin C, *in* S-10109
- C₂₉H₃₄O₁₃**
10-Dihydrodesteffimycin B, *in* S-10109
- C₂₉H₃₄O₁₆**
Tricin; 7-*O*-Neohesperidoside, *in* T-10140
Tricin; 7-*O*-Rhamnosylglucoside, *in* T-10140
Tricin; 7-*O*-Rutinoside, *in* T-10140
- C₂₉H₃₄O₁₇**
Tricin; 5,7-Di-*O*- β -D-glucopyranoside, *in* T-10140
Tricin; 5-*O*-Diglucoside, *in* T-10140
Tricin; 7-*O*-Diglucoside, *in* T-10140
Tricin; 7-*O*-(D-Fructosyl-D-glucoside), *in* T-10140
- C₂₉H₃₆N₂O₁₆S**
Paulomycin E, P-10017
Senfolomycin A, *in* P-10017
- C₂₉H₃₆N₄O₄**
Lotusine D, *in* L-10065
- C₂₉H₃₆O₄**
Cinnamoylgrandifloric acid, *in* H-10170
16-Kaurene-3,19-diol; 19-Carboxylic acid, 3-cinnamoyl, *in* K-10006
- C₂₉H₃₆O₅**
4-*O*-Methylvaldivone B, *in* D-10162
- C₂₉H₃₆O₇**
4(20),11-Taxadiene-1,2,5,9,10,13-hexol; 13-Ketone, 5-cinnamoyl, *in* T-10006
- C₂₉H₃₆O₈**
Scutellone G, *in* E-10071
- C₂₉H₃₆O₉**
14,17-Epoxy-5,6-dehydrocalotropin, E-10059
Scutellone B, *in* E-10149
- C₂₉H₃₆O₁₆**
Purpureaside A, P-10173
- C₂₉H₃₆O₁₇**
Helicoside, *in* P-10173
- C₂₉H₃₇NO₃**
Metachromin G, M-10035
- C₂₉H₃₇NO₇**
Tubacetin, T-10207
- C₂₉H₃₈N₂O₁₆S**
Paulomycin F, P-10018
- C₂₉H₃₈O₅**
7-Oxopulveric acid, *in* P-10091
- C₂₉H₃₈O₆**
Euphoractin A, E-10229
Euphoractin B, *in* E-10229
- C₂₉H₃₈O₇**
Acrihellin, *in* T-10175
Scutellone H, *in* T-10039
- C₂₉H₃₈O₉**
2-*O*- α -L-Fucopyranosyl-L-fucose; Benzyl glycoside, 2'-benzyl, 3,4-*O*-isopropylidene, *in* F-10023
Scutellone A, *in* E-10149
Scutellone C, *in* E-10149
Scuterivulactone C₂, *in* E-10149
- C₂₉H₃₈O₁₅**
2',3',4',7-Tetrahydroxyisoflavan; 3',4'-Di-Me ether, 2',7-di-*O*- β -D-glucopyranoside, *in* T-10054
- C₂₉H₃₈O₁₆**
2',5',7-Trihydroxy-3',4'-dimethoxyisoflavan 2',5-di-*O*- β -D-glucopyranoside, *in* P-10057

- C₂₉H₄₀N₂O₇**
4-Anthranoylappaconidine, *in* L-10027
- C₂₉H₄₀O₂**
28-Nor-11,13(18),17(22)-oleanatriene-3,21-dione, *in* H-10195
- C₂₉H₄₀O₄**
Pulveric acid, *in* P-10091
- C₂₉H₄₀O₅**
Daturametelin C, D-10013
Daturametelin D, D-10014
7 α -Hydroxypulveric acid, *in* P-10091
Kiheisterone A, K-10010
Kiheisterone B, K-10011
- C₂₉H₄₀O₇**
Triptogelin E1, *in* T-10138
- C₂₉H₄₀O₉**
Ingol; 8-Tigloyl, 3,12-di-Ac, *in* I-10013
Ingol; 12-Tigloyl, 3,7-di-Ac, *in* I-10013
- C₂₉H₄₀O₁₀**
Ajugamarin A1, *in* E-10150
Andriobicin B; 2-*O*- β -D-Glucopyranoside, *in* A-10086
Archangelolide, *in* T-10053
Galericulin, *in* T-10122
- C₂₉H₄₀O₁₁**
Cryptosin, *in* E-10164
- C₂₉H₄₂O₂**
3-Hydroxy-28-nor-11,13(18),17(22)-oleanatrien-21-one, H-10195
- C₂₉H₄₂O₃**
11-Deoxopulveric acid, *in* P-10091
- C₂₉H₄₂O₄**
11-Oxopaffic acid, *in* P-10091
- C₂₉H₄₂O₇**
2,3,16,20,25-Pentahydroxy-29-norcucurbita-1,3,5(10)-triene-11,22-dione, P-10058
- C₂₉H₄₂O₉**
Ajugamarin F4, *in* E-10156
▷ Corchoroside A, *in* T-10177
▷ Helveticoside, *in* T-10177
17 α -Helveticoside, *in* T-10177
- C₂₉H₄₂O₉S**
Daturametelin E, D-10015
- C₂₉H₄₂O₁₀**
Ajugamarin B1, *in* E-10150
Ajugamarin B5, *in* E-10150
Ajugamarin E3, *in* E-10150
Ajugapitin, *in* T-10122
▷ Convallatoxin, *in* T-10177
Desglucocheirotoxin, *in* T-10177
Kabuloside, *in* T-10177
Perofskoside, *in* T-10177
Scutalpin A, *in* D-10087
Strophalloside, *in* T-10177
Strophanthidin α -D-rhamnopyranoside, *in* T-10177
- C₂₉H₄₂O₁₁**
Glucostrophanthidin, *in* T-10177
6'-Hydroxyconvallatoxin, *in* T-10177
Sarmetoside D, *in* T-10062
Scorpiside, *in* T-10177
Zenkoside, *in* T-10062
- C₂₉H₄₃ClO₄**
4-Chloro-3,23-dioxostigmast-4-en-21-oic acid, C-10076
- C₂₉H₄₃NO₁₆**
Paulomenol A, *in* P-10016
- C₂₉H₄₃N₃O₂**
Olivoretin E, O-10034
- C₂₉H₄₄O₃**
Pfaffic acid, P-10091
Xestokerol C, X-10007
- C₂₉H₄₄O₄**
Eunicenone A, *in* E-10226
Pulverulactone, P-10171
- C₂₉H₄₄O₅**
19,21-Dihydroxy-30-nor-3-oxo-20(29)-friedelen-27-oic acid, D-10204
22-Hydroxy-3,21-dioxo-29-nor-24-friedelanoic acid, H-10118
- C₂₉H₄₄O₆**
Pectinoacetal A, P-10021
Pectinoacetal B, *in* P-10021
- C₂₉H₄₄O₇**
Allozetoside, *in* U-10020
21,23:22,28-Diepoxyxystigmasta-7,9(11)-diene-3,16,21,24,28-pentol, D-10085
Uzarigenin digitoxoside, *in* U-10020
Zettoside, *in* U-10020
- C₂₉H₄₄O₈**
▷ Ascleposide, *in* U-10020
Baconipyronone A, B-10001
Baconipyronone C, B-10003
Periplogenin digitoxoside, *in* T-10134
- C₂₉H₄₄O₉**
Desglucouzarin, *in* U-10020
Periplorhamnoside, *in* T-10134
- C₂₉H₄₄O₁₀**
Dihydroajugapitin, *in* T-10122
Ivain IV, *in* T-10122
- C₂₉H₄₅NO₃**
Radpetine, R-10002
Veralosinine, *in* E-10206
- C₂₉H₄₆O**
26-Nor-14-friedelen-3-one, *in* N-10045
- C₂₉H₄₆O₂**
Celsiogenin A, C-10044
Decortinone, *in* S-10119
6-Hydroxystigmasta-4,22-dien-3-one, H-10226
- C₂₉H₄₆O₄**
Aragusterol, A-10111
3,21-Dihydroxy-30-nor-27-friedelanoic acid, D-10203
- C₂₉H₄₆O₅**
12 α -Acetoxy-16 β -hydroxy-20,24-dimethyl-24-oxo-25-scalaranal, *in* D-10136
Dihydrochiapagenin; 12-Ac, *in* S-10099
24,25-Epoxy-24-methyl-16-scalarene-12,22,25-triol; 12-Ac, 25-Me ether, *in* E-10129
Scalardysin B, *in* E-10064
Scalarherbacin B, *in* D-10136
3,16,20-Trihydroxy-30-nor-12-oleanen-28-oic acid, T-10167
- C₂₉H₄₆O₆**
Pogosterol, P-10126
- C₂₉H₄₇NO₃**
▷ Muldamine, *in* E-10206
- C₂₉H₄₈O**
26-Nor-14-friedelen-3-ol, N-10045
 β -Sitosterone, S-10125
- C₂₉H₄₈O₂**
3-Hydroxyperiferast-5-en-7-one, *in* S-10121
3-Hydroxystigmast-5-en-7-one, *in* S-10121
Stigmasta-5,25-diene-3,7-diol, S-10119
- C₂₉H₄₈O₃**
3-Hydroxycholestan-6-one; Ac, *in* H-10098
23-Norgorgost-7-ene-3,5,6-triol, N-10047
- C₂₉H₄₈O₄**
Xestokerol B, X-10006
- C₂₉H₄₈O₅**
2,3,22,23-Tetrahydroxy-25-methylergost-24(28)en-6-one, T-10060
Xestokerol A, *in* X-10006
- C₂₉H₄₈O₉**
6'-Acetylmicrolepin, *in* K-10005
17-*O*-Acetylmicrolepin, *in* K-10005
- C₂₉H₄₉ClO₂**
6-Chloro-4,5-epoxystigmastan-3-ol, C-10078
- C₂₉H₅₀N₁₀O₁₂**
Phospholipase A₂, P-10103
- C₂₉H₅₀O**
14-Methylergostan-3-one, M-10055
4-Methylergost-7-en-3-ol, M-10056
- C₂₉H₅₀O₂**
30-Norgammacerane-21,22-diol, N-10046
Stigmast-5-ene-3,7-diol, S-10121
- C₂₉H₅₀O₄**
3,22,23-Trihydroxystigmastan-6-one, T-10192
- C₂₉H₅₀O₆**
Stigmast-4-ene-3,6,8,15,16,26-hexol, S-10122
Stigmast-24(28)-ene-3,6,8,15,16,29-hexol, S-10123
Stigmast-25-ene-2,3,15,16,17,18-hexol, S-10124
- C₂₉H₅₀O₉S**
Echinoclasterol; 2-Sulfate, *in* S-10124
- C₂₉H₅₁ClO₂**
6-Chlorostigmastane-3,5-diol, C-10086
- C₂₉H₅₂N₂O₃**
Xestospongine B, X-10010
- C₂₉H₅₂O₆**
Stigmastane-3,6,8,15,16,29-hexol, S-10120
- C₂₉H₅₄O₁₆**
 α -D-Glucopyranosyl-(1 \rightarrow 2)-[α -D-glucopyranosyl-(1 \rightarrow 4)]-D-glucose; Undeca-Me, *in* G-10045
- C₃₀H₁₈O₁₄**
Phlorofucofuroeckol A, P-10099
- C₃₀H₂₀O₇**
1,1',8,8'-Tetrahydroxy-3,3'-dimethyl-4,7'-bianthracene-9,9',10(10'*H*)-trione, T-10045
- C₃₀H₂₀O₁₀**
Fistulin, F-10012
- C₃₀H₂₂O₈**
Emodin bianthrone, E-10014
Lophirone A, L-10064
- C₃₀H₂₄O₁₃**
Protolucumelone, *in* P-10056
- C₃₀H₂₄O₁₄**
Prodelphinidin A₂, P-10151
- C₃₀H₂₆O₄**
Luteolin 7-(caffeoylglucoside), *in* T-10052
- C₃₀H₂₆O₁₀**
6-(3,7-Dihydroxychroman-2-yl)-4-(2,4-dihydroxyphenyl)-3,3',4',8'-tetrahydroxyflavan, D-10127
4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,7,8-tetrahydro-2*H*,6*H*-benzo[1,2-*b*:5,4-*b'*]dipyrans-3,7-diol, D-10227
10-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyrans-3,9-diol, D-10228
- C₃₀H₂₆O₁₁**
4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,7,8-tetrahydro-2*H*,6*H*-benzo[1,2-*b*:5,4-*b'*]dipyrans-3,7-diol; 5-Hydroxy, *in* D-10227
4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyrans-3,5,9-triol, D-10229
8-(2,4-Dihydroxyphenyl)-2,10-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyrans-3,5,9-triol, D-10230
10-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyrans-3,5,9-triol, D-10231
3,3',4',7'-Tetrahydroxyflavan(4 \rightarrow 6)-3,3',4',7,8-pentahydroxyflavan, T-10051
- C₃₀H₂₆O₁₂**
Luteolin; 7-*O*-(6-*O*-*E*-Cinnamoyl)- β -D-glucopyranoside, *in* T-10052
3,3',4',5',7-Pentahydroxyflavan(4 \rightarrow 8)-3,3',4',5',7-pentahydroxyflavan, *in* P-10049

- 3,3',4',7,8-Pentahydroxyflavan(4→8)-3,3',4',5,7-pentahydroxyflavan, P-10052
 3,3',4',7,8-Pentahydroxyflavan(5→6')-3,3',4',7,8-pentahydroxyflavan, P-10053
 Robinetinidol(4β→8)catechin, *in* P-10049
- C₃₀H₂₆O₁₃**
 Bignonoside, *in* T-10052
 Luteolin 7-(2-coumaroylglucoside), *in* T-10052
 Luteolin 7-(6-*p*-Coumaroylglucoside), *in* T-10052
 3,3',4',5',7-Pentahydroxyflavan(4→8)-3,3',4',5,5',7-hexahydroxyflavan, P-10049
- C₃₀H₂₈O₇**
 Benastatin A, B-10011
 Euchretin D, E-10207
 Euchretin E, E-10208
- C₃₀H₂₈O₁₂**
 6-[1-(3,4-Dihydroxyphenyl)-2-hydroxy-3-(3,4,5-trihydroxyphenyl)propyl]-3',4',7,8-tetrahydroxyflavan, D-10241
- C₃₀H₃₀O₇**
 Benastatin B, *in* B-10011
- C₃₀H₃₀O₈**
 ▷ Gossypol, G-10113
- C₃₀H₃₁N₄[⊕]**
 N^ν-Methylusambarensine, *in* U-10013
- C₃₀H₃₂O₆**
 Sanggenon J, S-10010
 Sanggenon K, S-10011
- C₃₀H₃₂O₁₂**
 Sachalide 2, S-10002
- C₃₀H₃₂O₁₄**
 Senburiside II, *in* L-10059
- C₃₀H₃₂O₁₈**
 Luteolin; 7-*O*-(6'-*O*-Malonylneohesperidoside), *in* T-10052
- C₃₀H₃₄BrN₅O₁₅**
 Neosurugatoxin, N-10022
- C₃₀H₃₄O₄**
 Virgaurin A, V-10027
- C₃₀H₃₄O₁₀**
 Lappaol C, L-10029
 Lappaol E, L-10031
- C₃₀H₃₅NO₇**
 Triptogelin F1, *in* T-10139
- C₃₀H₃₅NO₈**
 Celapagine, *in* T-10042
 1,8,9,14-Tetrahydroxydihydro-β-agarofuran; 14-(3-Pyridinecarboxyl), 9-benzoyl, 1-Ac, *in* T-10043
- C₃₀H₃₅NO₉**
 Triptogelin A7, *in* P-10046
- C₃₀H₃₅NO₁₀**
 Celapanine, *in* T-10042
- C₃₀H₃₆N₂O₆**
 Ajmalimine, *in* A-10035
 Willicourtine, *in* A-10035
- C₃₀H₃₆O₆**
 Nymphaeol C, N-10055
- C₃₀H₃₆O₁₂**
 Tectoroside, *in* D-10175
- C₃₀H₃₆O₁₃**
 1,2,4,6,8,9,14-Heptahydroxydihydro-β-agarofuran; 8-Ketone, 9-benzoyl, 1,2,6,14-tetra-Ac, *in* H-10025
- C₃₀H₃₆O₁₈**
 Chemochinenoside A, C-10073
- C₃₀H₃₇NO₅**
 8-*O*-Cinnamoylgraciline, *in* P-10036
- C₃₀H₃₈N₄O₄**
 Lotusine A, L-10065
- C₃₀H₃₈O₈**
 Excoecaria factor B₄, *in* G-10107
 Ingol; 8-Benzoyl, 3,12-di-Ac, *in* I-10013
- C₃₀H₃₈O₉**
 Peddiea factor A₁, P-10024
- C₃₀H₃₈O₁₂**
ent-5 α ,11-Epoxy-1 β ,4 α ,6 α ,8 β ,9 β ,14-eudesmanhexol; 9-Benzoyl, 1,6,8,15-tetra-Ac, *in* H-10054
 Ixeriside B, *in* D-10175
 6 β ,8 β ,9 α ,14-Tetraacetoxy-1 α -benzoyloxy-4 β -hydroxydihydro-β-agarofuran, *in* H-10054
- C₃₀H₃₈O₁₄**
 Stecholid K, *in* E-10141
- C₃₀H₃₈O₁₅**
 Phtheirospermoside, *in* D-10235
- C₃₀H₃₈O₁₆**
 Crenulatin†, C-10131
- C₃₀H₃₉NO₃**
 Antibiotic L 696475, *in* A-10101
- C₃₀H₃₉NO₄**
 Antibiotic L 697318, A-10101
- C₃₀H₃₉NO₅**
 Cytochalasin U, *in* A-10101
- C₃₀H₃₉N₇O₆**
 Chymostatin B, *in* C-10096
- C₃₀H₄₀O₃**
 Chamaecydin, C-10064
 Isochamaecydin, *in* C-10064
- C₃₀H₄₀O₄**
 Chamaecydinol, *in* C-10064
 6 β -Hydroxychamaecydin, *in* C-10064
 10 α -Hydroxycryptoquinone, *in* C-10064
 10 β -Hydroxycryptoquinone, *in* C-10064
- C₃₀H₄₀O₅**
 Euphorbia factor H₇, *in* I-10012
 Ingenol; 20-Deoxy, 3-(2*E*,4*Z*,6-decatrienoyl), *in* I-10012
 Schisanlactone C, S-10032
- C₃₀H₄₀O₆**
 5,6-Epoxy-16-hydroxy-1-oxowitha-2,24-dienolide; Ac, *in* E-10114
 ▷ Euphorbia factor E₂, *in* I-10012
- C₃₀H₄₀O₇**
 5,6-Epoxy-16,17-dihydroxy-1-oxowitha-2,24-dienolide; 16-Ac, *in* E-10072
 Iochromolide, I-10016
 Triptogelin E7, *in* T-10138
 Triptogelin E8, *in* T-10138
 Withacnistin, W-10002
- C₃₀H₄₀O₈**
 Euphorbia factor T₁₅, *in* P-10063
 Excoecariatoxin, *in* G-10107
 27-Hydroxyiochromolide, *in* I-10016
 27-Hydroxywithacnistin, *in* W-10002
 16 α -Hydroxywithacnistin, *in* W-10002
 Isocelorbicol; 9-(2,3-Epoxy-cinnamoyl), 2-butanoyl, 1-Ac, *in* T-10138
 Withaminimin, W-10005
- C₃₀H₄₀O₉**
 Physagulin F, *in* W-10005
- C₃₀H₄₀O₁₂**
 Stecholid I, *in* E-10141
- C₃₀H₄₀O₁₃**
 Stecholid M, *in* E-10141
- C₃₀H₄₂N₄O₄**
 N¹-(*Z*)-*p*-Methoxycinnamoylbuchnerine, *in* B-10050
- C₃₀H₄₂O₄**
 Peradione, P-10075
 Pseudolarolide B, *in* P-10160
- C₃₀H₄₂O₆**
 ▷ Euphorbia factor E₁, *in* I-10012
- C₃₀H₄₂O₇**
 ▷ Cucurbitacin I, C-10140
- 24,25-Dihydroiochromolide, *in* I-10016
 24,25-Dihydrowithacnistin, *in* W-10002
 3,20-Dihydroxy-7,11,15-trioxolanosta-8,24-dien-26-oic acid, D-10255
 Drevogenin II, *in* P-10138
 Ganoderic acid J, *in* H-10232
 15-Hydroxy-3,7,11,23-tetraoxolanost-8-en-26-oic acid, H-10232
- C₃₀H₄₂O₈**
 2,3-Dihydro-3-hydroxywithacnistin, *in* W-10002
- C₃₀H₄₂O₉**
 Ingol; 7-Angeloyl, O⁸-Me, 3,12-Di-Ac, *in* I-10013
 Ingol; 7-Tigloyl, O⁸-Me, 3,12-di-Ac, *in* I-10013
- C₃₀H₄₂O₁₀**
 Buchanin, *in* E-10164
 Cryptanoside B, *in* E-10165
 Intermedioside, *in* E-10164
 Sarveroside, *in* E-10164
- C₃₀H₄₂O₁₁**
 Ajugamacin A, *in* E-10150
 Ajugamacin A, *in* E-10150
 Forrestin A, *in* K-10007
 Hellebrigenin; 3-*O*- β -D-Glucopyranoside, *in* T-10175
 Panstroside, *in* E-10164
- C₃₀H₄₂O₁₂**
 Clerodendrin A, *in* T-10122
- C₃₀H₄₄O₃**
 Schisanlactone D, S-10033
- C₃₀H₄₄O₄**
 Colupone, C-10118
 28-Hydroxy-3-oxo-20(29)-lupen-30,21-olide, H-10209
 15-Hydroxy-3-oxooleana-1,12-dien-28-oic acid, H-10211
 Pseudolarolide A, P-10160
- C₃₀H₄₄O₅**
 16,23:16,24-Diepoxy-15,25-dihydroxycycloart-7-en-3-one, *in* D-10070
 Eunicenone B, E-10226
 Gouanic acid, *in* D-10194
 11-Hydroxy-3,21-dioxo-12-oleanen-28-oic acid, H-10119
 21-Hydroxyisoglabrolide, *in* T-10180
 Mimosopic acid, M-10081
 Petuniasterone C 22-*O*-acetate, *in* P-10088
 Petuniasterone D, P-10089
 Pseudolarolide D, *in* P-10161
 Sodivanone B, *in* S-10069
 Subellinone, S-10126
- C₃₀H₄₄O₆**
 11-Deoxocucurbitacin I, *in* C-10140
 Sodivanone A, S-10069
- C₃₀H₄₄O₇**
 Andirobin A, A-10085
 16-Anhydrodesacetlynerigoside, *in* D-10122
 Cucurbitacin L, *in* C-10140
 16-Desacetyl-16-anhydrocryptograndoside A, *in* D-10122
 16-Desacetyl-16-anhydrohongheloside A, *in* D-10122
 16-Desacetyl-16-anhydrooleandrin, *in* D-10122
 16,22-Dihydroxy-24-methyl-12,24-dioxo-25-scalaranal; Di-Ac, *in* D-10200
- C₃₀H₄₄O₈**
 16-Anhydrostrospeptide, *in* D-10122
 16-Desacetyl-16-anhydroacoschimperoside P, *in* D-10122
 Obeside D, *in* D-10122
 ▷ Simplexin, *in* G-10107
- C₃₀H₄₄O₉**
 ▷ Cymarin, *in* T-10177
- C₃₀H₄₄O₁₀**
 Strophanthidin digitaloside, *in* T-10177
 Strophanthojavoside, *in* T-10177
 Strophotheoside, *in* T-10177

- C₃₀H₄₄O₁₁**
Hellebrigenin; 19-Alcohol, 3-*O*- β -glucoside, in T-10175
- C₃₀H₄₆N₂O₃**
Axillarine E, in D-10048
- C₃₀H₄₆O₂**
Cycloart-24-ene-3,23,dione, in H-10105
21,23-Epoxycycloart-24-en-3-ol; 3-Ketone, in E-10054
21,23-Epoxycycloart-24-en-3-one, in E-10054
22(29)-Hopen-24,3-olide, in H-10161
3-Oxocycloart-24-en-21-al, in C-10161
- C₃₀H₄₆O₃**
11,12-Dehydrousolic acid lactone, in D-10258
Desoxoglabrolide, in O-10032
3 β -Hydroxycoriaceolide, in D-10211
3-Hydroxycycloart-24-en-26,23-olide, in H-10104
Sodivanone C, S-10070
Ursonic acid, in H-10242
- C₃₀H₄₆O₄**
2,3-Dihydroxy-12,19(29)-ursadien-28-oic acid, D-10257
11,12-Epoxy-3-hydroxy-28,13-ursanolate, E-10116
Gouanogenin A, G-10114
Hederagonic acid, in D-10212
19-Hydroxy-3-oxo-12-oleanen-28-oic acid, in D-10210
23-Hydroxy-3-oxo-12-ursen-28-oic acid, in D-10261
Machaeric acid, in D-10211
Papyriogenin F, in D-10211
Pulsatillac acid, in D-10193
Stryphnodendron Saponin K, S-10019
Subprogenin C, in O-10032
- C₃₀H₄₆O₅**
Acerinol, A-10012
Dendalone, in H-10187
16,23:16,24-Diepoxy-cycloart-7-ene-3,15,25-triol, D-10070
19,21-Dihydroxy-30-nor-3-oxo-20(29)-friedelen-27-oic acid; Me ester, in D-10204
20,29-Dihydroxy-3-oxo-30,21-lupanolate, D-10221
24-Epiacerinol, in A-10012
17,23-Epoxy-3,29-dihydroxylanost-9-en-26,23-olide, E-10068
22-Hydroxy-3,21-dioxo-29-nor-24-friedelanoic acid; Me ester, in H-10118
3 α -Hydroxy-20(29)-lupene-23,28-dioic acid, in D-10193
3 β -Hydroxy-12-ursene-23,28-dioic acid, in D-10261
Melaleucic acid, in D-10194
Mimusopic acid, M-10080
Pirrolonic acid, in T-10194
2,19,25-Trihydroxy-1,12-ursadien-28-oic acid, T-10193
- C₃₀H₄₆O₆**
3,19-Dihydroxy-12-oleanene-18,23-dioic acid, D-10209
17,23-Epoxy-3,24,29-trihydroxylanost-9-en-26,23-olide, E-10162
11,12-Epoxy-2,3,23-trihydroxy-28,13-oleananolate, E-10163
11-Oxoasiatic acid, in T-10071
Petuniasterone B, P-10087
3,18,21-Trihydroxy-11-oxo-12-oleanen-29-oic acid, T-10180
- C₃₀H₄₆O₇**
Allomadagascoside, in U-10020
Madagascoside, in U-10020
Odoroside B, in U-10020
2,16,20,22,25-Pentahydroxycucurbita-5,23-diene-3,11-dione, P-10041
3,15,29-Trihydroxy-11,23-dioxolanost-8-en-26-oic acid, T-10142
- C₃₀H₄₆O₈**
Alloperiplocyamarin, in T-10134
- Alloperiplogenin; 3-*O*-(2,6-Dideoxy-3-*O*-methyl- β -D-ribohexopyranoside), in T-10134
Neriifoside, in U-10020
3,16,20,24,25-Pentahydroxycucurbit-5-ene-2,11,22-trione, P-10044
 \blacktriangleright Periplocyamarin, in T-10134
 \blacktriangleright Thevefoline, in U-10020
Vanderoside, in T-10134
- C₃₀H₄₆O₉**
Alloemicymarin, in T-10134
Emicymarin, in T-10134
- C₃₀H₄₆O₁₁**
Ivain III, in T-10122
- C₃₀H₄₇N₃O₉S**
Leukotriene C₄, L-10046
- C₃₀H₄₈**
1,5,9,13,17,21-Hexamethyl-1,5,9,13,17,21-cyclotetracosahexaene, H-10059
- C₃₀H₄₈O**
Filicenol, F-10009
- C₃₀H₄₈O₂**
Abrisapogenol F, in O-10024
Davallic acid, F-10003
Entandrolide, E-10023
21,23-Epoxycycloart-24-en-3-ol, E-10054
Filicenoic acid, in F-10009
3,15-Friedelanedione, in H-10147
3-Hydroxycycloart-24-en-21-al, in C-10161
3-Hydroxycycloart-24-en-23-one, H-10105
23-Hydroxycycloart-24-en-3-one, in H-10105
25-Hydroxycycloart-23-en-3-one, in C-10160
3-Hydroxycycloart-24-en-23-one; 3-Ketone, 23-alcohol(2), in H-10105
24-Hydroxydammar-20,25-dien-3-one, H-10107
21 α -Hydroxy-4(23)-friedelen-3-one, in F-10021
20-Hydroxy-12-ursen-3-one, H-10243
Isokarounidiol, I-10034
Kokoonal, in D-10167
11,13(18)-Oleanadiene-3,22-diol, O-10020
12,15-Oleanadiene-3,23-diol, O-10021
Tuberosic acid, H-10070
- C₃₀H₄₈O₃**
Carnosiflogenin A, in C-10142
3 β ,26-Dihydroxycucurbita-5,24Z-dien-11-one, in C-10142
3,16-Dihydroxy-24-cycloarten-6-one, D-10129
3,22-Dihydroxy-12-oleanen-25-al, D-10207
3,22-Dihydroxy-18-oleanen-25-al, D-10208
3,30-Dihydroxy-12-oleanen-11-one, D-10214
21,23-Epoxycycloart-24-ene-3,21-diol, E-10051
13,28-Epoxy-11-oleanene-3,23-diol, E-10138
3-Hydroxycycloartan-26,23-olide, H-10104
3-Hydroxycycloart-24-en-21-oic acid, in C-10161
15-Hydroxy-1,3-friedelanedione, H-10146
3-Hydroxy-22(29)-hopen-24-oic acid, H-10161
3-Hydroxylanosta-8,24-dien-26-oic acid, H-10171
3-Hydroxy-12-ursen-28-oic acid, H-10242
Kokoconol, in D-10167
12,15-Oleanadiene-3,22,28-triol, O-10023
3-Oxocycloartan-21-oic acid, in H-10102
- C₃₀H₄₈O₄**
3 α ,22-Dihydroxycycloart-24-en-26-oic acid, in C-10165
3 β ,22-Dihydroxycycloart-24-en-26-oic acid, in C-10165
3,23-Dihydroxy-20(29)-lupen-28-oic acid, D-10193
3,27-Dihydroxy-20(29)-lupen-28-oic acid, D-10194
3,19-Dihydroxy-12-oleanen-28-oic acid, D-10210
3,21-Dihydroxy-12-oleanen-28-oic acid, D-10211
3,22-Dihydroxy-12-oleanen-30-oic acid, in O-10032
3,23-Dihydroxy-12-oleanen-28-oic acid, D-10212
3,24-Dihydroxy-12-oleanen-30-oic acid, D-10213
- 3,13-Dihydroxy-11-ursen-28-oic acid, D-10258
3,21-Dihydroxy-12-ursen-28-oic acid, D-10259
3,22-Dihydroxy-12-ursen-28-oic acid, D-10260
3,23-Dihydroxy-12-ursen-28-oic acid, D-10261
3,27-Dihydroxy-12-ursen-30-oic acid, D-10262
13,28-Epoxy-3,16-dihydroxy-30-oleananal, E-10069
Jujubogenin, J-10007
Kokzeylanonol, in D-10166
Nephehinal, in L-10084
11,13(18)-Oleanadiene-3,16,23,28-tetrol, O-10022
3,20,26-Trihydroxycucurbita-5,24-dien-11-one, T-10136
3,22,24-Trihydroxy-12-oleanen-19-one, T-10173
3,22,30-Trihydroxy-18-oleanen-25-one, T-10174
- C₃₀H₄₈O₅**
21,23-Epoxycycloart-24-ene-3,21,22,30-tetrol, E-10053
Gouanogenin B, G-10115
3-Hydroxy-27,29-friedelanedioic acid, H-10145
Phylloketal, in E-10064
3,16,20,25-Tetrahydroxycucurbita-5,23-dien-11-one, T-10040
3,21,22-Trihydroxy-12-oleanen-29-oic acid, T-10171
3,22,24-Trihydroxy-12-oleanen-29-oic acid, T-10172
2,3,19-Trihydroxy-12-ursen-28-oic acid, T-10194
3,19,24-Trihydroxy-12-ursen-28-oic acid, T-10195
- C₃₀H₄₈O₆**
Asbestinin 6, in A-10130
Cucurbitacin U, C-10141
18,24:20,24-Diepoxy-cycloartane-3,15,16,25-tetrol, D-10069
16,23-Epoxycycloart-7-ene-3,15,16,24,25-pentol, E-10052
Kinoin B, in P-10043
2,3,16,20,26-Pentahydroxycucurbita-5,24-dien-11-one, P-10042
3,16,20,22,25-Pentahydroxycucurbita-5,23-dien-11-one, P-10043
2,3,11,23-Tetrahydroxy-12-ursen-28-oic acid, T-10071
3,19,21,23-Tetrahydroxy-12-ursen-28-oic acid, T-10072
- C₃₀H₄₈O₇**
Asbestinin 7, in A-10130
20,24-Epoxy-2,3,16,25,26-pentahydroxycucurbit-5-en-11-one, E-10143
2,3,6,19,23-Pentahydroxy-12-ursen-28-oic acid, P-10064
- C₃₀H₅₀**
14(27),17,21-Malabaricatriene, M-10006
- C₃₀H₅₀N₂O**
Sarain 2, S-10021
- C₃₀H₅₀N₂O₄**
Axillarine F, in D-10048
- C₃₀H₅₀O**
4,14-Dimethylergosta-8,24(28)-dien-3-ol, D-10271
4,14-Dimethylergosta-9(11),24(28)-dien-3-ol, D-10272
Eupha-8,24-dien-3-ol, E-10228
9(11)-Fernen-23-ol, F-10004
9(11)-Fernen-24-ol, in F-10003
Filicenol B, F-10010
Lanosta-7,9(11)-dien-3-ol, L-10023
Leptadenol, L-10042
4-Methylstigmasta-8,24(28)-dien-3-ol, M-10070
8(26),13,17,21-Polypodatetraen-3-ol, P-10129
Ulex europaeus Sterol, S-10117
- C₃₀H₅₀O₂**
Cycloart-5-ene-3,25-diol, C-10158
Cycloart-20-ene-3,25-diol, C-10159
Cycloart-23-ene-3,25-diol, C-10160

- Cycloart-24-ene-3,21-diol, C-10161
 Cycloart-25-ene-3,22-diol, C-10162
 Dammara-20(22),24-diene-3,12-diol, D-10003
 Eupha-7,24-diene-1,3-diol, E-10227
 15-Hydroxy-3-friedelanone, H-10147
 21-Hydroxy-3-friedelanone, in F-10021
 Kokoanol, in D-10167
 20(29)-Lupene-3,15-diol, L-10083
 12-Oleanene-3,22-diol, O-10024
 12-Oleanene-3,27-diol, O-10025
 18-Oleanene-3,22-diol, O-10026
 14-Taraxerene-3,7-diol, T-10004
- C₃₀H₅₀O₃**
 Cucurbita-5,24-diene-3,11,26-triol, C-10142
 Cycloart-23-ene-3,25,26-triol, C-10163
 Cycloart-24-ene-3,21,23-triol, C-10164
 Cycloart-24-ene-3,22,26-triol, C-10165
 Dammara-20(22),24-diene-3,6,12-triol, D-10004
 Dammara-20,24-diene-3,6,12-triol, D-10005
 12,20-Dihydroxydammar-24-en-3-one, in D-10011
 6,26-Dihydroxy-3-friedelanone, D-10166
 21,26-Dihydroxy-3-friedelanone, D-10167
 3,13-Dihydroxy-12-oleananone, D-10206
 12,23-Epoxydammar-24-ene-3,20-diol, E-10058
 3-Hydroxycycloartan-21-oic acid, H-10102
 3-Hydroxycycloartan-26-oic acid, H-10103
 20(29)-Lupene-3,6,16-triol, L-10085
 12-Oleanene-3,22,30-triol, O-10032
- C₃₀H₅₀O₄**
 3,19,20,24-Diepoxydammarane-3,25-diol, D-10071
 17,24,20,24-Diepoxydammarane-3,25-diol, D-10072
 20,24-Epoxy-25,26-dihydroxydammaran-3-one, E-10063
 20,24-Epoxy-25,26-dihydroxydammaran-3-one; (20*S*,24*R*,25*S*)-form, in E-10063
 Gorgost-5-ene-1,3,11,21-tetrol, G-10112
 20(30)-Lupene-1,3,11,29-tetrol, L-10084
 12-Oleanene-3,6,16,28-tetrol, O-10028
 12-Oleanene-3,11,23,28-tetrol, O-10029
 12-Oleanene-3,16,22,24-tetrol, O-10030
 12-Oleanene-3,21,22,24-tetrol, O-10031
 3,13,15-Trihydroxy-12-oleananone, T-10170
- C₃₀H₅₀O₅**
 Gorgost-5-ene-1,3,9,11,21-pentol, G-10111
 12-Oleanene-3,16,21,23,28-pentol, O-10027
 3,24,25-Trihydroxycycloartan-30-oic acid, T-10137
 3,24,25-Trihydroxytanost-9(11)-en-30-oic acid, T-10157
- C₃₀H₅₂O**
 Lanost-8-en-3-ol, L-10024
- C₃₀H₅₂O₂**
 Cycloartane-3,21-diol, C-10156
 Cycloartane-3,25-diol, C-10157
 3,21-Friedelanediol, F-10021
 3,4-Seco-4(23)-friedelene-3,5-diol, S-10039
- C₃₀H₅₂O₃**
 Dammar-24-ene-3,12,20-triol, D-10011
- C₃₀H₅₂O₄**
 Cucurbit-5-ene-3,11,24,25-tetrol, C-10143
 Dammar-23-ene-3,12,20,25-tetrol, D-10008
 Dammar-24-ene-3,6,12,20-tetrol, D-10009
 Dammar-24-ene-3,12,20,26-tetrol, D-10010
 20,24-Epoxydammarane-3,12,25-triol, E-10057
 4,23,24-Trimethylcholest-22-ene-1,3,6,11-tetrol, T-10197
- C₃₀H₅₂O₅**
 Dammar-24-ene-1,3,12,20,26-pentol, D-10006
 Dammar-25-ene-3,6,12,20,24-pentol, D-10007
 20,24-Epoxy-1,3,12,25-dammaranetetrol, E-10055
 20,24-Epoxy-3,6,12,25-dammaranetetrol, E-10056
- C₃₀H₅₂O₈**
 Longilene peroxide, L-10062
- C₃₀H₅₂O₂₆**
 β -D-Fructofuranosyl-(2 \rightarrow 1)- β -D-fructofuranosyl- β -D-fructofuranosyl-(2 \rightarrow 1)- β -D-fructofuranosyl-(2 \rightarrow 6)- α -D-glucopyranoside, F-10022
- C₃₀H₅₄Br₂Cl₂O₆**
 Intricatetraol, I-10014
- C₃₀H₅₄O₅**
 Quassiol, Q-10004
- C₃₀H₆₀O₂**
 Triacantanolic acid, T-10100
- C₃₀H₆₂O**
 5-Triacantanol, T-10101
- C₃₁H₂₄O₈**
 Calodenone, in L-10064
- C₃₁H₂₄O₁₀**
 Rubioncolin B, R-10055
- C₃₁H₂₆O₁₀**
 Mopanane(4 \rightarrow 8)-3,3',4,7-tetrahydroxyflavan, M-10090
- C₃₁H₂₈O₁₄**
 Luteolin 7-(6-feruloylglucoside), in T-10052
- C₃₁H₃₀O₁₃**
 Okanin; 4'-Me ether, 4-O-(6-O-coumaroyl- β -D-glucopyranoside), in P-10040
- C₃₁H₃₂O₈**
 Gossypol; 6-Me ether, in G-10113
- C₃₁H₃₄N₂O₇**
 O-(4-Hydroxy-3,5-dimethoxybenzoyl) vincamajine, in V-10023
- C₃₁H₃₄O₉**
 Lappaol B, L-10028
 Mortonol B, in P-10045
- C₃₁H₃₄O₁₃**
 Resinoside A, R-10015
 Resinoside B, in R-10015
- C₃₁H₃₅NO₇**
 Cossonine, C-10130
- C₃₁H₃₆O₇**
 Celorbicol; 6,9-Dibenzoyl, 1-Ac, in T-10139
- C₃₁H₃₆O₈**
 8 α -Acetoxy-1 α ,9 α -dibenzoyloxy-6 β -hydroxydihydro- β -agarofuran, in T-10042
 Celafolin D2, in T-10042
- C₃₁H₃₆O₉**
 Angulatueoid G, in P-10046
 Orthosiphon D, in T-10056
- C₃₁H₃₆O₁₀**
 Lappaol D, L-10030
- C₃₁H₃₈CIN₃O₁₄**
 Dactylocycline B, D-10002
- C₃₁H₃₈O₇**
 Taxicin II; 5-Cinnamoyl, 2-Ac, in T-10070
 Taxicin II; 5-Cinnamoyl, 9-Ac, in T-10070
 Taxicin II; 5-Cinnamoyl, 10-Ac, in T-10070
- C₃₁H₃₈O₈**
 4(20),11-Taxadiene-1,2,5,9,10,13-hexol; 13-Ketone, 5-cinnamoyl, 9-Ac, in T-10006
 4(20),11-Taxadiene-1,2,5,9,10,13-hexol; 13-Ketone, 5-cinnamoyl, 10-Ac, in T-10006
- C₃₁H₃₈O₁₁**
 Humilinolide D, in H-10072
- C₃₁H₃₉N₅O₅**
 β -Ergoptine, E-10172
 β -Ergoptinine, in E-10172
- C₃₁H₄₀CIN₃O₁₃**
 Dactylocycline A, D-10001
- C₃₁H₄₀O₈**
 Calbistrin A, C-10013
 Calbistrin B, in C-10013
- C₃₁H₄₀O₉**
 4(20),11-Taxadiene-1,5,7,9,10,13-hexol; 10-Benzoyl, 7,9-di-Ac, in T-10007
- C₃₁H₄₀O₁₁**
 Humilinolide A, H-10071
- C₃₁H₄₀O₁₆**
 2-O- β -D-Glucopyranosyl-L-rhamnose; Benzyl glycoside, hexa-Ac, in G-10070
- C₃₁H₄₁N₅O₇**
 Brevigellin, B-10043
- C₃₁H₄₁N₇O₆**
 Chymostatin A, in C-10096
 Chymostatin C, in C-10096
- C₃₁H₄₂N₂O₂**
 Coryphine, C-10129
- C₃₁H₄₂N₄O₄**
 Frangulofoline, F-10018
 Sanjoine Ah₁, in F-10018
- C₃₁H₄₂O₇**
 Triptogelin E3, in T-10138
- C₃₁H₄₂O₈**
 Calbistrin C, C-10014
 Calbistrin D, in C-10014
 Fevicordin A, F-10008
- C₃₁H₄₂O₁₀**
 Ingol; 7-Angeloyl, 3,8,12-tri-Ac, in I-10013
 Ingol; 7-Tigloyl, 3,8,12-tri-Ac, in I-10013
 Ingol; 12-Tigloyl, 3,7,8-tri-Ac, in I-10013
- C₃₁H₄₂O₁₁**
 Ajugamarin A2, in E-10150
 Bovocryptoside, B-10040
 Bovoruboside, B-10042
- C₃₁H₄₂O₁₇**
 Angustifolioside B, in O-10033
 β -D-Glucopyranosylformoside, in E-10237
- C₃₁H₄₂O₁₈**
 Angustifolioside A, in O-10033
 Hiirragilde, in O-10033
- C₃₁H₄₂O₁₉**
 Multiroside, in O-10033
- C₃₁H₄₄O₈**
 Fevicordin B, in F-10008
- C₃₁H₄₄O₁₀**
 Ingol; 8-(2-Methylbutanoyl), 3,7,12-tri-Ac, in I-10013
 Physodin A, in T-10175
- C₃₁H₄₄O₁₁**
 Ajugamacrin B, in E-10150
 Ajugamacrin B, in E-10150
 Ajugamarin B2, in E-10150
 Bovoneoside, B-10041
- C₃₁H₄₄O₁₂**
 Ajugachin B, in T-10122
 Clerodendrin B, in T-10122
- C₃₁H₄₅NO₈**
 Auriculine \dagger , in P-10005
 Paludosine, P-10005
- C₃₁H₄₆O₄**
 Poricoic acid C, P-10135
- C₃₁H₄₆O₅**
 Poricoic acid A, P-10134
 Propapyriogenin A₁, in H-10119
- C₃₁H₄₆O₆**
 Poricoic acid D, P-10136
- C₃₁H₄₆O₉**
 Methyl briareolate, in E-10154
- C₃₁H₄₆O₁₀**
 Mansonin, in T-10177
 Strebloside, in T-10177
- C₃₁H₄₈O₄**
 Formylursolic acid, in H-10242

- C₃₁H₄₈O₅
25-Methylacerinol, *in* A-10012
Spiroveitchionolide, S-10103
- C₃₁H₄₈O₆
12,16-Dihydroxy-20,24-dimethyl-24-oxo-25-scalaranal; 12,16-Di-Ac, *in* D-10136
12-Epirockogenin; Di-Ac, *in* S-10099
Pseudolarolide C, P-10161
Scalarherbacin B acetate, *in* D-10136
- C₃₁H₄₈O₉
Kamaloside, *in* T-10134
- C₃₁H₄₈O₁₂
Rufoside, *in* H-10170
- C₃₁H₄₉N₃O₉S
11-*trans*-Leukotriene C₄; Me-ester, *in* L-10046
N-Methylleukotriene C₄, *in* L-10046
- C₃₁H₅₀N₂O
Sarain 1, S-10020
- C₃₁H₅₀O
24-Isopropenyl-4-methylcholesta-7,22-dien-3-ol, I-10047
- C₃₁H₅₀O₂
24-Methylenelanosta-7,9(11)-diene-3,15-diol, M-10053
- C₃₁H₅₀O₃
3-Methoxycycloartan-26,23-olide, *in* H-10104
Ursolic acid; Me ester, *in* H-10242
- C₃₁H₅₀O₄
24-Methylenecycloart-25-ene-3,21,22,23-tetrol, M-10052
- C₃₁H₅₀O₅
Ampelozigenin, A-10075
Euscaphic acid; Me ester, *in* T-10194
- C₃₁H₅₀O₆
2,3,23-Trihydroxy-11-methoxy-12-ursen-28-oic acid, *in* T-10071
- C₃₁H₅₀O₇
Pectinoacetal C, P-10022
- C₃₁H₅₀O₈
Antibiotic AB 023A, *in* A-10097
Blancasterol, B-10037
- C₃₁H₅₂O₂
25-Methoxycycloart-23-en-3 β -ol, *in* C-10160
24-Methylenecycloartane-3,20-diol, M-10051
- C₃₁H₅₂O₃
3-Methoxycycloartan-26-oic acid, *in* H-10103
3-Methoxycycloart-23-ene-25,26-diol, *in* C-10163
- C₃₁H₅₂O₁₂S₃
Ibisterol, I-10001
- C₃₁H₅₃N₁₁O₅
Argiotoxin 659, A-10119
- C₃₁H₅₄O
Cyclosvietenol, C-10171
- C₃₁H₅₄O₁₆
Atractyloside E, *in* E-10218
- C₃₁H₅₄O₁₇
Atractyloside H, *in* E-10222
- C₃₁H₆₂O₂
9-Hydroxy-3-hentriacontanone, H-10158
Triacontanoic acid; Me ester, *in* T-10100
- C₃₂H₂₆O₉
2',7-Dihydroxy-4'-methoxyflavone(3 \rightarrow 5')-2',7-dihydroxy-4'-methoxyisoflavan, D-10196
- C₃₂H₂₈O₉
7-Hydroxy-4'-methoxyisoflavan-2',5'-quinone(4 \rightarrow 5')-2',7-dihydroxy-4'-methoxyisoflavan, H-10175
- C₃₂H₃₀O₁₅
Okanin; 4'-O-(6-O-Acetyl-2-O-caffeoyl- β -D-glucopyranoside), *in* P-10040
- C₃₂H₃₄O₈
Gossypol; 6,6'-Di-Me ether, *in* G-10113
- C₃₂H₃₆N₂O₈
10-Hydroxy-O¹⁷-(3,4,5-trimethoxybenzoyl)vincamajine, *in* V-10023
- C₃₂H₃₆O₈
Cycloshizukaol A, C-10170
- C₃₂H₃₆O₁₃
Uhdoside A, U-10001
- C₃₂H₃₆O₁₄
Uhdoside B, *in* U-10001
- C₃₂H₃₇NO₉
Angulatueoid D, *in* T-10043
Celapanigine, *in* T-10042
Rzedowskin D, *in* P-10045
- C₃₂H₃₇NO₁₁
Tripterregeline C, *in* H-10054
- C₃₂H₃₈O₁₃
Framoside, *in* I-10036
Fraxiformoside, F-10019
- C₃₂H₃₈O₁₅
Antibiotic NG 011, A-10102
Antibiotic NG 012, *in* A-10102
- C₃₂H₃₈O₁₉
Frachinoside, F-10017
Populin; 3-O-(Rhamnopyranosylxyloside), *in* P-10133
Trifolin†; 2'-O- β -D-Apiofuranoside, 6''-O- α -L-rhamnopyranoside, *in* T-10123
- C₃₂H₃₈O₂₀
Leucovernide, *in* P-10133
Luteolin; 4'-O- β -D-Glucopyranoside, 7-O-[α -L-arabinofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], *in* T-10052
- C₃₂H₃₉NO₄
 β -Aflatrem, A-10029
- C₃₂H₃₉O₁₅[⊕]
6-(1-Ethyl-1-propenyl)-3,4',5,7-tetrahydroxyflavylium(1+); 3-O-Diglycoside, *in* E-10204
- C₃₂H₄₀O₉
Ingol; O⁷-Benzoyl, O⁸-Me, 3,12-di-Ac, *in* I-10013
- C₃₂H₄₀O₁₄
Celangulin, *in* H-10025
- C₃₂H₄₀O₁₈
3-O- β -D-Glucopyranuronosyl-D-galactose; Benzylglycoside, hexa-Ac, Me ester, *in* G-10078
- C₃₂H₄₂O₆
Euphorbia factor E₃, *in* I-10012
- C₃₂H₄₂O₈
Euphorbia factor T₆, *in* P-10063
- C₃₂H₄₂O₁₂
Scillicyanoside, *in* T-10176
- C₃₂H₄₂O₁₈
Periclymenosidic acid, *in* L-10059
- C₃₂H₄₄O₇
Tomentidin, *in* P-10138
Tomentodin, *in* P-10138
- C₃₂H₄₄O₈
Cucurbitacin E, *in* C-10140
Daticacin, *in* C-10140
- C₃₂H₄₄O₁₀
Scutegalin A, *in* T-10023
- C₃₂H₄₅NO₈
Geniconitine, *in* S-10046
- C₃₂H₄₅N₉O₁₁
Biphenomycin C, B-10025
- C₃₂H₄₆O₆
Petuniasterone C 7,22-di-O-acetate, *in* P-10088
- C₃₂H₄₆O₆S
Petuniasterone C 22-O-[(methylthio)carbonyl]acetate, *in* P-10088
- C₃₂H₄₆O₁₁
Ajugamacerin C, *in* E-10150
- C₃₂H₄₈ClNO₈
Paludosine; N-Me, chloride, *in* P-10005
- C₃₂H₄₈NO₈[⊕]
Kumokirine, *in* P-10005
- C₃₂H₄₈N₂O₄
Axillarine C, *in* D-10048
- C₃₂H₄₈O₄
3,13-Dihydroxy-11-ursen-28-oic acid; 20 \rightarrow 13 Lactone, 3-Ac, *in* D-10258
- C₃₂H₄₈O₅
Poricoic acid AM, *in* P-10134
- C₃₂H₄₈O₆
25-Acetylacerinol, *in* A-10012
7,8-Didehydrocimigenol; 25-Ac, *in* D-10070
Phyllactone D, *in* D-10137
Phyllactone E, *in* D-10137
Poricoic acid DM, *in* P-10136
- C₃₂H₄₈O₇
Petuniasterone B 22-O-acetate, *in* P-10087
Petuniasterone S, P-10090
- C₃₂H₄₈O₈
Cocarcinogen A2, *in* P-10063
Cocarcinogen B7, *in* P-10063
- C₃₂H₅₀O₄
Acetylursolic acid, *in* H-10242
- C₃₂H₅₀O₅
Rubiprasin C, *in* D-10210
- C₃₂H₅₀O₆
Dehydrofoliaspongin, *in* D-10136
12,16-Dihydroxy-20,24-dimethyl-24-oxo-25-scalaranal; 16-Propanoyl, 12-Ac, *in* D-10136
12,16-Dihydroxy-20,24-dimethyl-17-scalaren-25,24-olide; 12-(3-Hydroxypentanoyl), *in* D-10138
Glabretol, G-10036
Glabretol; 7-Deacetyl, 3-Ac, *in* G-10036
Phyllactone B, *in* D-10138
Raspacionin B, R-10009
Tormentic acid; 2-Ac, *in* T-10194
Tormentic acid; 3-Ac, *in* T-10194
- C₃₂H₅₀O₇
Heracleifolinol, H-10032
- C₃₂H₅₀O₁₃
Paniculoside V, *in* H-10170
- C₃₂H₅₂N₂O
Sarain 3, S-10022
- C₃₂H₅₂O₂
Dihydroagnosterol; Ac, *in* L-10023
- C₃₂H₅₂O₃
Cycloart-23-ene-3,25-diol; 3-Ac, *in* C-10160
Kalamadiol; 3-Ac, *in* O-10026
- C₃₂H₅₂O₄
3-Hydroxycycloartan-21-oic acid; Ac, *in* H-10102
Machaerinic acid; Et ester, *in* D-10211
Rubiprasin B, *in* D-10206
- C₃₂H₅₂O₅
Macrophyllongen acetate, *in* O-10028
Rubiprasin A, *in* T-10170
- C₃₂H₅₂O₆
Foliaspongin, *in* D-10136
- C₃₂H₅₂O₈
Antibiotic AB 023B, *in* A-10097
- C₃₂H₅₂O₁₂
Anatolioside A, *in* D-10279
- C₃₂H₅₄O₂
Dihydroepilasterol; Ac, *in* L-10024
- C₃₂H₅₄O₃
3,21-Friedelaneliol; 21-Ac, *in* F-10021

- C₃₂H₅₄O₄**
Betulafolienetriol; 3-Ketone, 12-Ac, in D-10011
- C₃₂H₅₄O₅**
Pyxinol; 3-Ac, in E-10057
Pyxinol; 12-Ac, in E-10057
- C₃₂H₅₄O₁₂**
▷ Lyciumoside I, in P-10111
- C₃₂H₅₄O₁₂S**
Pisasteroside D, in C-10092
Pisasteroside E, in C-10092
Scoparioside D, in C-10093
- C₃₂H₅₄O₁₃**
Corymbosin†, in K-10005
Epicorymbosin, in K-10005
- C₃₂H₅₅N₁₁O₅**
Argiotoxin 673, A-10120
- C₃₂H₅₆O₇**
Eurylene; 14-De-Ac, in E-10236
- C₃₂H₅₆O₉**
Pycnopodioside A, in C-10091
- C₃₂H₅₆O₁₂S**
Aphelasteroside A, in C-10091
Glacialoside A, in C-10091
Pisasteroside B, in C-10091
Pycnopodioside B, in C-10091
Scoparioside A, in C-10091
Scoparioside B, in C-10091
- C₃₂H₅₆O₁₃**
Gomojoside F, in L-10011
Lyciumoside III, in P-10112
- C₃₂H₅₆O₁₃S**
Glacialoside B, in C-10090
- C₃₂H₅₈N₇O₅**
Efrapeptin A, E-10006
- C₃₂H₆₄O**
2-Dotriacontanone, D-10307
- C₃₂H₆₄O₂**
5-Acetoxytriacontane, in T-10101
5-Hydroxy-9-dotriacontanone, H-10120
7-Hydroxy-2-dotriacontanone, H-10121
25-Hydroxy-3-dotriacontanone, H-10122
25-Hydroxy-6-dotriacontanone, H-10123
30-Hydroxy-5-dotriacontanone, H-10124
Triacantanonic acid; Et ester, in T-10100
- C₃₂H₆₆**
▷ Dotriacontane, D-10306
- C₃₃H₂₈O₁₇**
3-Glucosyl-2,3',4,4',6-pentahydroxybenzophenone; 2'-(*p*-Hydroxybenzoyl), 6'-(3,4,5-trihydroxybenzoyl), in G-10087
3-Glucosyl-2,3',4,4',6-pentahydroxybenzophenone; 6'-(*p*-Hydroxybenzoyl), 2'-(3,4,5-trihydroxybenzoyl), in G-10087
- C₃₃H₃₀N₂O₅**
2'-Norcoccoline, in C-10113
- C₃₃H₃₂N₄O₄**
Chlorophyllonic acid a, C-10085
- C₃₃H₃₂O₁₅**
Okanin; 4'-Me ether, 4-*O*-(6-*O*-acetyl-2-*O*-caffoyl-β-D-glucopyranoside), in P-10040
- C₃₃H₃₄O₂₄**
Luteolin; 4'-*O*-β-D-Glucuronoside, 7-*O*-β-D-glucuronosyl-(1→2)-β-D-glucuronoside], in T-10052
Luteolin; 3',4',7-Tri-*O*-glucuronoside, in T-10052
- C₃₃H₃₆O₂₃**
Luteolin; 3'-*O*-Glucopyranoside, 4',7-di-*O*-glucuronoside, in T-10052
- C₃₃H₃₈O₇**
Celafolin A1, in T-10139
Celafolin B3, in T-10138
- C₃₃H₃₈O₈**
Isocelorbicol; 9-(2,3-Epoxy-cinnamoyl), 2-benzoyl, 1-Ac, in T-10138
- C₃₃H₃₈O₉**
Angulatueoid H, in T-10042
- C₃₃H₃₈O₁₀**
1,2,4,6,9-Pentahydroxydihydro-β-agarofuran; 1,9-Dibenzoyl, 2,6-di-Ac, in P-10045
- C₃₃H₃₈O₁₁**
9α,14-Diacetoxy-1α,8β-dibenzoyloxy-4β,8β-dihydroxydihydro-β-agarofuran, in H-10054
ent-5α,11-Epoxy-1β,4α,6α,8β,9β,14-eudesmanehexol; 8,9-Dibenzoyl, 6,15-di-Ac, in H-10054
- C₃₃H₃₈O₂₀**
Luteolin; 3',4'-Di-*O*-rhamnoside, 7-*O*-glucuronoside, in T-10052
- C₃₃H₃₉NO₉**
Angulatueoid F, in T-10043
- C₃₃H₄₀O₇**
Pycnidione, P-10175
- C₃₃H₄₀O₉**
4(20),11-Taxadiene-1,2,5,9,10,13-hexol; 13-Ketone, 5-cinnamoyl, 2,9-di-Ac, in T-10006
4(20),11-Taxadiene-1,2,5,9,10,13-hexol; 13-Ketone, 5-cinnamoyl, 2,10-di-Ac, in T-10006
- C₃₃H₄₀O₁₉**
Frangulatrioside A, in T-10123
Trifolin†; 6'-*O*-[α-L-Rhamnopyranosyl-(1→3)-α-L-rhamnopyranoside], in T-10123
- C₃₃H₄₀O₂₀**
Cynarotrioside, in T-10052
Luteolin; 4'-*O*-Glucopyranoside, 7-*O*-neohesperidoside, in T-10052
Luteolin; 3'-*O*-β-D-Glucopyranoside, 7-*O*-rutinoside, in T-10052
Luteolin; 7-*O*-(Rhamnosylglucosylglucoside), in T-10052
Populnin; 3-*O*-Neohesperidoside, in P-10133
Populnin; 3-*O*-[α-L-Rhamnopyranosyl-(1→2)-β-D-galactopyranoside], in P-10133
Populnin; 3-*O*-Robinobioside, in P-10133
Populnin; 3-*O*-Rutinoside, in P-10133
Trifolin†; *O*'-Rhamnosylglucoside, in T-10123
- C₃₃H₄₀O₂₁**
Populnin; 3-*O*-Gentiobioside, in P-10133
Populnin; 3-*O*-Sophoroside, in P-10133
- C₃₃H₄₂O₆**
Euphorbia factor P₆, in I-10012
- C₃₃H₄₂O₉**
4(20),11-Taxadiene-1,2,5,9,10,13-hexol; 5-Cinnamoyl, 9,13-di-Ac, in T-10006
4(20),11-Taxadiene-1,2,5,9,10,13-hexol; 5-Cinnamoyl, 10,13-di-Ac, in T-10006
- C₃₃H₄₂O₁₁**
2α-Acetoxybrevifoliol, in T-10005
13-Deacetylbaecatin VI, in E-10148
Taxchinin A, T-10008
- C₃₃H₄₂O₁₂**
Humilinolide B, in H-10071
- C₃₃H₄₂O₁₇**
Cassioside†, in T-10129
- C₃₃H₄₄N₂O₁₇S**
O-Demethylpaulomycin A, in P-10016
- C₃₃H₄₄O₁₂**
1α,6β,14-Triacetoxy-9α-benzoyloxy-4β-hydroxy-8α-(2-methylbutanoyloxy)dihydro-β-agarofuran, in H-10054
Trichilin G, in T-10108
- C₃₃H₄₄O₁₇**
Medioresinol; Di-*O*-β-D-glucopyranoside, in M-10024
- C₃₃H₄₄O₁₈**
Pericylmenoside, in L-10059
- C₃₃H₄₅NO₈**
Patentine, in S-10046
- C₃₃H₄₅NO₁₂**
Beiwutine, in A-10021
- C₃₃H₄₆O₁₆**
Borapetoside D, in E-10104
- C₃₃H₄₈O₈**
▷ Cocarcinogen B6, in P-10063
- C₃₃H₄₈O₁₁**
5,6-Epoxy-4(15)-eudesmene-3,7,11-triol; 11-*O*-(3-Acetyl-2,4-diangeloyl-β-D-fucopyranoside), in E-10082
- C₃₃H₅₀O₆**
Cynoterpene, in H-10242
- C₃₃H₅₀O₈**
▷ Cocarcinogen B5, in P-10063
- C₃₃H₅₁NO₅**
Acutifolin palmitate, in A-10026
- C₃₃H₅₂O₆**
Phyllofoliaspongine, in D-10136
- C₃₃H₅₂O₇**
12,16-Dihydroxy-20,24-dimethyl-24-oxo-25-scalaranal; 16-(3*R*-Hydroxybutanoyl), 12-Ac, in D-10136
- C₃₃H₅₃NO₆**
γ-Chaconine, in S-10072
γ-Solanine, in S-10072
- C₃₃H₅₄O₇**
Deacetylpyriferic acid, in E-10057
- C₃₃H₅₅NO₇**
Capsicastrine, in E-10206
Capsimine 3-*O*-β-D-glucoside, in E-10206
Isocapsicastrine, in E-10206
- C₃₃H₅₈O₁₂S**
Asterosaponin P₁, in C-10091
Scoparioside C, in C-10091
- C₃₃H₅₈O₁₃S**
Pycnopodioside C, in C-10091
- C₃₃H₆₄O₃**
4-Hydroxy-16,18-tritriacontanedione, H-10239
- C₃₃H₆₆O**
3-Tritriacontanone, T-10205
- C₃₃H₆₆O₂**
18-Hydroxy-16-tritriacontanone, H-10240
- C₃₄H₂₄N₄O**
Cryptospirolepine, C-10139
- C₃₄H₂₄O₂₂**
Castanin, in C-10036
Casuarin, in C-10036
Granatin A, G-10128
- C₃₄H₂₄O₂₃**
Lagerstannin A, L-10017
- C₃₄H₂₆O₂₃**
Mallorapanin, M-10007
- C₃₄H₂₈O₈**
5,6,6a,14a-Tetrahydro-5,6-dihydroxy-3,10-bis(2-phenylethyl)-1*H*,12*H*-[1]benzopyrano[7,6-*b*]pyrano[3,2-*f*][1,4]benzodioxin-1,12-dione, T-10026
- C₃₄H₂₈O₂₂**
1,2,3,6-Tetragalloylglucose, T-10024
- C₃₄H₃₀Br₄N₄O₇**
Bastadin 12, B-10010
- C₃₄H₃₀N₂O₅**
1,2-Dehydromicranthine, in C-10113
- C₃₄H₃₀O₉**
Soporaflavanone H, S-10078
- C₃₄H₃₀O₂₀**
3-Methoxy-4-hydroxyphenyl 1-*O*-(2,3,6-tri-*O*-galloyl-β-D-glucopyranoside), in B-10013

- C₃₄H₃₂N₂O₅
Coccoline, C-10113
- C₃₄H₃₂N₂O₆
Coccoline 2'-β-N-oxide, *in* C-10113
- C₃₄H₃₂O₁₀
Rubioncolin A, R-10054
- C₃₄H₃₄N₄O₄
Chlorophyllonic acid a; Me ester, *in* C-10085
- C₃₄H₃₄O₁₁
Torosaol I, T-10095
Torosaol II, T-10096
- C₃₄H₃₄O₁₇
Populin; 3-(*O*-Benzoyl-β-D-glucopyranoside), *in* P-10133
- C₃₄H₃₄O₁₈
Populin; 3-*O*-(4-Hydroxybenzoyl-β-D-glucopyranoside), *in* P-10133
- C₃₄H₃₆O₆
Euphorbia factor P₈, *in* I-10012
- C₃₄H₃₆O₇
Euphorbia factor P₆, *in* I-10012
- C₃₄H₃₇NO₁₃
6'-*O*-Feruloyldemethylalangiside, *in* A-10037
- C₃₄H₃₈N₂O₇
3,4,5-Trimethoxycinnamoylvincamajine, *in* V-10023
- C₃₄H₃₈N₂O₈
10-Hydroxy-*O*¹⁷-(3,4,5-trimethoxycinnamoyl) vincamajine, *in* V-10023
- C₃₄H₄₁NO₉
Angulatueoid E, *in* T-10043
1,8,9,14-Tetrahydroxydihydro-β-agarofuran; 14-(3-Pyridinecarbonyl), 9-benzoyl, 8-(2-methylpropanoyl), 1-Ac, *in* T-10043
- C₃₄H₄₂O₁₀
Humilinolide C, H-10072
- C₃₄H₄₂O₁₁
1,2,6,8,9-Pentahydroxydihydro-β-agarofuran; 9-Benzoyl, 8-(2-furancarboxyl), 2-(2-methylbutanoyl), 1-Ac, *in* P-10046
- C₃₄H₄₄N₂O₁₆S
Paulomycinone A, *in* P-10016
- C₃₄H₄₄O₁₉
Pedicularioside A, *in* D-10235
- C₃₄H₄₅NO₅
Petuniasterone C 22-nicotinate, *in* P-10088
- C₃₄H₄₅NO₉
Salannolactam 21, S-10003
- C₃₄H₄₆N₂O₁₇S
Paulomycin A, P-10016
- C₃₄H₄₆O₁₃
Angulatin A, *in* H-10025
1,2,4,6,8,9,14-Heptahydroxydihydro-β-agarofuran; 9-Benzoyl, 2,14-bis-(2-methylpropanoyl), 1,8-di-Ac, *in* H-10025
- C₃₄H₄₆O₁₅
1,2,4,6,8,9,14-Heptahydroxydihydro-β-agarofuran; 9-(3-Furoyl), 2,14-bis-(2-methylpropanoyl), 1,6,8-tri-Ac, *in* H-10025
- C₃₄H₄₇NO₈
Delphiperegrine, D-10034
- C₃₄H₄₇NO₁₂
Aconifine, A-10021
- C₃₄H₄₈O₆
Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, *in* H-10076
- C₃₄H₄₈O₈
12α-Acetoxyetuniasterone D 7-acetate, *in* P-10089
▷ Huratoxin, H-10076
- C₃₄H₄₈O₉
12-Acetoxy-7-*O*-acetyl-11-hydroxyetuniasterone D, *in* P-10089
- C₃₄H₄₈O₁₀
Daturametelin G, *in* D-10014
- C₃₄H₄₈O₁₁
Ajugamacrin D, *in* E-10150
Ajugamacrin E, *in* E-10150
Ajugamarin G1, *in* E-10150
Ajugamarin H1, *in* E-10150
- C₃₄H₅₀N₂O₅
Axillarine D, *in* D-10048
- C₃₄H₅₀O₈S
Petuniasterone-B 22-*O*-[(Methylthio)carbonyl] acetate, *in* P-10087
- C₃₄H₅₀O₁₂
Baccatin VII, *in* E-10148
- C₃₄H₅₀O₁₃
Erychroside, *in* T-10177
- C₃₄H₅₁N₃O₂₁
2-Amino-2-deoxy-β-D-glucopyranosyl-(1→4)-2-amino-2-deoxy-β-D-glucopyranosyl-(1→4)-2-amino-2-deoxy-D-glucose; Octa-Ac, *in* A-10064
- C₃₄H₅₂O₆
Alpinic acid, *in* T-10193
Viridoxin A, V-10030
Viridoxin B, *in* V-10030
- C₃₄H₅₂O₈
▷ Cocarcinogen A3, *in* P-10063
▷ Cocarcinogen B4, *in* P-10063
- C₃₄H₅₂O₉
Periplocoside M, *in* P-10082
- C₃₄H₅₃ClO₈
Huratoxin; 6,7-Deepoxy, 6-hydroxy, 7-chloro, 2',3',4',5'-tetrahydro, *in* H-10076
- C₃₄H₅₄O₇
12,16-Dihydroxy-20,24-dimethyl-24-oxo-25-scalaranal; 16-(3-Hydroxypentanoyl), 12-Ac, *in* D-10136
Oxohydroolidin, O-10058
- C₃₄H₅₄O₈
Huratoxin; 1,2,2',3',4',5'-Hexahydro, *in* H-10076
Huratoxin; 15,16,2',3',4',5'-Hexahydro, *in* H-10076
- C₃₄H₅₆O₄
3,21-Friedelanediol; Di-Ac, *in* F-10021
- C₃₄H₅₆O₆
Pyxinol; 3,12-Di-Ac, *in* E-10057
Pyxinol; 3,25-Di-Ac, *in* E-10057
- C₃₄H₅₆O₇
Raspacionin, R-10008
- C₃₄H₅₇N₃O₆
Fluvirucin B₄, *in* F-10013
Fluvirucin B₅, *in* F-10013
- C₃₄H₅₈O₈
Eurylene, E-10236
Huratoxin; 3-Alcohol, 1,2,15,16,2',3',4',5'-octahydro, *in* H-10076
- C₃₄H₅₈O₁₃S
Pisasteroside C, *in* S-10123
- C₃₄H₅₈O₁₄S
Pisasteroside A, *in* E-10184
- C₃₄H₅₉N₃O₉
Enniatin B₁, E-10018
Enniatin D, E-10019
- C₃₄H₆₀O₁₀
Forbeside I, *in* C-10090
- C₃₄H₆₈O₂
32-Hydroxy-5-tetriacontanone, H-10233
- C₃₄H₇₀O
Incarnatyl alcohol, I-10005
- C₃₄H₇₀O₂
Randiol, T-10077
- C₃₅H₂₅O₁₄
Erycorchoside, *in* T-10177
- C₃₅H₂₈O₁₁
1,1',8,8'-Tetrahydroxy-3,3'-dimethyl-4,7'-bianthracene-9,9',10(10'*H*)-trione; 10'-*C*-α-L-Arabinopyranosyl, *in* T-10045
1,1',8,8'-Tetrahydroxy-3,3'-dimethyl-4,7'-bianthracene-9,9',10(10'*H*)-trione; 10'*R*-*C*-β-D-Xylopyranoside, *in* T-10045
- C₃₅H₃₂MgN₄O₅
Divinylchlorophyllide a, D-10299
- C₃₅H₃₄MgN₄O₅
Chlorophyllide a, *in* C-10084
- C₃₅H₃₄N₂O₅
Coccoline, *in* C-10113
O-Methylcoccoline, *in* C-10113
O-Methylmicranthine, *in* C-10113
- C₃₅H₃₄N₂O₆
Coccoline *N*-2-oxide, *in* C-10113
O-Methylcoccoline 2'-β-*N*-oxide, *in* C-10113
- C₃₅H₃₆N₄O₅
Phaeophorbide a, P-10092
- C₃₅H₃₈O₁₁
Triptofordin D1, *in* H-10054
- C₃₅H₃₈O₁₃
1,2,4,6,8,9,14-Heptahydroxydihydro-β-agarofuran; 8-Ketone, 1,9-dibenzoyl, 2,6,14-tri-Ac, *in* H-10025
Triptofordin E, *in* H-10025
- C₃₅H₃₈O₂₅
Tricin; 7-*O*-Trigluconoside, *in* T-10140
- C₃₅H₃₉NO₁₄
6'-Sinapoyldemethylalangiside, *in* A-10037
- C₃₅H₄₀N₂O₈
(3,4,5-Trimethoxycinnamoyl)-10-methoxyvincamajine, *in* V-10023
- C₃₅H₄₀O₉
1,6-Diacetoxy-9-benzoyloxy-8-cinnamoyloxydihydro-β-agarofuran, *in* T-10042
- C₃₅H₄₀O₁₀
Batakanine, *in* P-10045
- C₃₅H₄₀O₁₂
6β,8α,14-Triacetoxy-1α,9α-dibenzoyloxy-4β-hydroxydihydro-β-agarofuran, *in* H-10054
- C₃₅H₄₂O₉
Taxinine, *in* T-10070
- C₃₅H₄₂O₂₀
Depressoside, *in* L-10059
Trifloroside, *in* S-10135
Trifolin†; 6'-*O*-[α-L-Rhamnopyranosyl-(1→4)-3-*O*-acetyl-α-L-rhamnopyranoside], *in* T-10123
- C₃₅H₄₂O₂₁
Faralatroside, *in* T-10123
- C₃₅H₄₃NO₉
1,8,9,14-Tetrahydroxydihydro-β-agarofuran; 14-(3-Pyridinecarbonyl), 9-benzoyl, 8-(2-methylbutanoyl), 1-Ac, *in* T-10043
- C₃₅H₄₄O₄
Homoferruginin B, H-10068
- C₃₅H₄₄O₁₂
Baccatin VI, *in* E-10148
- C₃₅H₄₄O₁₃
Utilin B, U-10016
- C₃₅H₄₄O₁₅
Marrangin, M-10018
- C₃₅H₄₄O₂₁
Tricin; 4'-*O*-Glucopyranoside, 7-*O*-rutinoside, *in* T-10140

- C₃₅H₄₆O₈**
Euphorbia factor I₅, in I-10012
- C₃₅H₄₆O₁₂**
Trichilin D, in T-10108
- C₃₅H₄₆O₁₃**
Aphanastatin, in T-10108
Trichilin A, in T-10108
Trichilin B, T-10108
Trichilin C, in T-10108
Trichilin F, in T-10108
- C₃₅H₄₆O₁₄**
Celangulin III, in H-10025
Celangulin IV, in H-10025
- C₃₅H₄₆O₂₀**
Teupolioside, T-10080
- C₃₅H₄₇NO₁₃**
3-*O*-Acetylbeiwutine, in A-10021
- C₃₅H₄₈N₂O₁₇S**
Paulomycin U, in P-10016
- C₃₅H₄₈O₁₇**
Erythrolide J, in H-10052
- C₃₅H₅₀O₁₂**
Fevicordin C glucoside, in F-10008
- C₃₅H₅₂O₈**
▷ Cocarcinogen B3, in P-10063
- C₃₅H₅₂O₉**
Pfaffoside F, in P-10091
Pfaffoside G, in P-10091
- C₃₅H₅₂O₁₁**
Cayaponeside B_{6a}, in C-10041
Cayaponeside B_{6b}, in C-10041
5,6-Epoxy-4(15)-eudesmene-3,7,11-triol; 11-*O*-[2,4-Diangeloyl-3-(2-methylpropanoyl)-β-D-fucopyranoside], in E-10082
Fevicordin E glucoside, in F-10008
- C₃₅H₅₂O₁₂**
Cayaponeside C₃, in C-10041
Cayaponeside D_{3a}, in C-10041
Fevicordin D glucoside, in F-10008
- C₃₅H₅₂O₁₃**
4-Eudesmene-3,6,7,11,15-pentol; 11-*O*-(3-Acetyl-2,4-diangeloyl-β-D-fucopyranoside), 15-Ac, in E-10221
- C₃₅H₅₂O₁₄**
Eryperoside, in T-10177
▷ Erysimoside, in T-10177
Olitroside, in T-10177
- C₃₅H₅₂O₁₅**
▷ Cheirotosin, in T-10177
▷ Convalloside, in T-10177
Erycanoside, in T-10177
Eryscenoside, in T-10177
- C₃₅H₅₄O₆**
Glabretol; 7-Deacetyl, 3-tigloyl, in G-10036
Hericenone F, H-10033
- C₃₅H₅₄O₈**
▷ Cocarcinogen B2, in P-10063
- C₃₅H₅₄O₉**
16,23:16,24-Diepoxy cycloart-7-ene-3,15,25-triol; 3-*O*-β-D-Xylopyranoside, in D-10070
- C₃₅H₅₄O₁₂**
Cayaponeside D_{3b}, C-10041
Oxystelmoside, in U-10020
- C₃₅H₅₄O₁₃**
▷ Cheiroside A, in U-10020
- C₃₅H₅₄O₁₄**
Urezin, in U-10020
Uzarigenin; 3-*O*-[β-D-Glucopyranosyl-(1→4)-β-D-glucopyranoside], in U-10020
Uzarin, in U-10020
- C₃₅H₅₅NO₈**
Veralosine, in E-10206
- C₃₅H₅₆O₅**
Lantairsolic acid, in D-10260
- C₃₅H₅₆O₇**
Betulafolienetriol; 3-Malonyl, 12-Ac, in D-10011
Pendulic acid, in D-10011
- C₃₅H₅₆O₈**
Anemosapogenin; 3-*O*-α-L-Arabinopyranoside, in D-10193
Betulafolienetetrol B; 3-Malonyl, 12-Ac, in D-10008
Cauloside A, in D-10212
Illoxoside A, in D-10210
Papyriferic acid, in E-10057
Prosapogenin CP₀, in D-10212
- C₃₅H₅₆O₁₀**
Astragalus alexandrinus Saponin, S-10017
- C₃₅H₅₈O₄**
29-(2,3,4,5-Tetrahydroxypentyl)-6,11-hopadiene, T-10063
- C₃₅H₅₈O₉**
Bafilomycin A₁, B-10005
- C₃₅H₅₉ClO₇**
Blattellastanoside A, in C-10078
- C₃₅H₆₀N₁₂O₆**
Argiopinin II, A-10118
- C₃₅H₆₀O₄**
29-(2,3,4,5-Tetrahydroxypentyl)-6-hopene, T-10064
- C₃₅H₆₀O₁₀**
Forbeside L, in S-10122
- C₃₅H₆₁ClO₇**
Blattellastanoside B, in C-10086
- C₃₅H₆₁N₃O₉**
Enniatin A₁, E-10017
Enniatin E, E-10020
- C₃₅H₆₂O₁₄S**
Pisasteroside F, in S-10120
- C₃₅H₆₄O₇**
Annoreticuin, A-10091
Isoannoreticuin, I-10022
- C₃₅H₆₆O**
6,26-Pentatriacontadien-2-one, P-10066
8,26-Pentatriacontadien-2-one, P-10067
- C₃₅H₇₀O**
3-Pentatriacontanone, P-10069
4-Pentatriacontanone, P-10070
5-Pentatriacontanone, P-10071
1-Pentatriaconten-17-ol, P-10072
- C₃₅H₇₀O₂**
Triacontanoic acid; Pentyl ester, in T-10100
- C₃₅H₇₂O**
1-Pentatriacontanol, P-10068
- C₃₆H₃₀O₁₁**
1,1',8,8'-Tetrahydroxy-3,3'-dimethyl-4,7'-bianthracene-9,9',10(10'*H*)-trione; 10'-*C*-(6-Deoxy-β-D-glucopyranoside), in T-10045
1,1',8,8'-Tetrahydroxy-3,3'-dimethyl-4,7'-bianthracene-9,9',10(10'*H*)-trione; 10'-*C*-(6-Deoxy-β-D-gulopyranoside), in T-10045
1,1',8,8'-Tetrahydroxy-3,3'-dimethyl-4,7'-bianthracene-9,9',10(10'*H*)-trione; 10'-*C*-α-L-Rhamnopyranosyl, in T-10045
- C₃₆H₃₆N₄O₈Zn**
Zincphyrin, in C-10126
- C₃₆H₃₆O₁₉**
Populin; 3-(*O*-Caffeoyl-β-D-glucopyranoside), in P-10133
- C₃₆H₃₈N₂O₆**
Chitraline, in P-10001
2-Norlimacine, in F-10001
2'-Norlimacine, in F-10001
2'-Norpakistanine, in P-10001
Porveniramine, in P-10001
- C₃₆H₃₈N₂O₉**
1,8,9,14-Tetrahydroxydihydro-β-agarofuran; 9,14-Bis-(3-pyridinecarbonyl), 8-benzoyl, 1-Ac, in T-10043
- C₃₆H₃₈N₄O₅**
Methyl phaeophorbide a, in P-10092
- C₃₆H₃₈N₄O₈**
Coprotophyrin III, C-10126
- C₃₆H₄₃NO₁₃**
1,14-Diacetoxy-9-benzoyloxy-4,6-dihydroxy-2-isobutanoyloxy-8-nicotinoyloxydihydro-β-agarofuran, in H-10025
1,2,4,6,8,9,14-Heptahydroxydihydro-β-agarofuran; 2-(2-Methylpropanoyl), 8-(3-pyridinecarbonyl), 9-benzoyl, 1,14-di-Ac, in H-10025
- C₃₆H₄₄N₄O₈**
Coprotophyrinogen III, in C-10126
- C₃₆H₄₄O₉**
Celafolin D3, in T-10042
- C₃₆H₄₄O₁₀**
1,2,6,8,9-Pentahydroxydihydro-β-agarofuran; 8,9-Dibenzoyl, 2-(2-methylbutanoyl), 1-Ac, in P-10046
- C₃₆H₄₄O₁₃**
Mombasone, in M-10084
- C₃₆H₄₄O₁₆**
Celangulin II, in H-10025
- C₃₆H₄₅NO₇**
Tomentomin, in P-10138
- C₃₆H₄₆O₈**
Euphorbia factor Ti₇, in P-10063
Euphorbia factor Ti₆, in P-10063
- C₃₆H₄₆O₁₃**
Mombasol, M-10084
- C₃₆H₄₇NO₆**
Petunaisterone C 22-nicotinate-7-acetate, in P-10088
- C₃₆H₄₈O₈**
Euphorbia factor Ti₈, in P-10063
Excoecaria factor A₂, in E-10202
- C₃₆H₄₈O₁₉**
Lagotoside, L-10021
- C₃₆H₄₉NO₇**
Petunianine C, P-10086
Petuniasterone B 22-nicotinate, in P-10087
- C₃₆H₅₀O₆**
34-Ethylhuratoin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, in E-10202
- C₃₆H₅₀O₈**
Excoecaria factor A₁, in E-10202
- C₃₆H₅₀O₁₀**
Subtoxin A, in H-10076
- C₃₆H₅₀O₁₄**
Physagulin E, P-10107
- C₃₆H₅₀O₁₅**
Physagulin G, in P-10107
- C₃₆H₅₂O₈**
▷ 34-Ethylhuratoin, E-10202
- C₃₆H₅₂O₁₁**
Reveromycin A, R-10016
Reveromycin B, R-10017
- C₃₆H₅₂O₁₂**
▷ Cucurbitacin I 2-*O*-β-D-glucopyranoside, in C-10140
- C₃₆H₅₂O₁₅**
Cryptanoside C, in E-10164
Cryptanoside D, in E-10165
▷ Hellebrin, in T-10175
- C₃₆H₅₃NO₁₂**
Nervosine, in P-10005

- C₃₆H₅₄O₃
Toxicol B, T-10097
- C₃₆H₅₄O₆S
Toxicol C, in T-10097
- C₃₆H₅₄O₈
Phyllactone C, in D-10138
- C₃₆H₅₄O₈S₂
Toxiusol, T-10098
- C₃₆H₅₄O₉S₂
Toxicol B; 1',4'-Disulfate, in T-10097
- C₃₆H₅₄O₁₁
5,6-Epoxy-4(15)-eudesmene-3,7,11-triol; 11-O-[2,4-Diangeloyl-3-(2-methylbutanoyl)-β-D-fucopyranoside], in E-10082
- C₃₆H₅₄O₁₂
Andirobinic A; 2-O-β-D-Glucopyranoside, in A-10085
Bryoamaride, in C-10140
16-Desacetyl-16-anhydrocryptograndoside B, in D-10122
Miyakolide, M-10083
- C₃₆H₅₄O₁₃
16-Anhydrodigitalin, in D-10122
- C₃₆H₅₄O₁₄
▷ k-Strophanthin-β, in T-10177
- C₃₆H₅₄O₁₆
Panstrosin, in E-10164
- C₃₆H₅₄O₃₃
β-D-Glucopyranuronosyl-(1→3)-α-D-galactopyranuronosyl-(1→2)-α-L-rhamnopyranosyl-(1→4)-[β-D-glucopyranuronosyl-(1→3)]-α-D-galactopyranuronosyl-(1→2)-L-rhamnopyranose, G-10073
- C₃₆H₅₆O₈
▷ Cocarcinogen A1, in P-10063
- C₃₆H₅₆O₉
Alpinoside, in D-10257
- C₃₆H₅₆O₁₀
Cumindioside B, C-10145
2-Oxopomolic acid β-D-glucopyranosyl ester, in T-10194
Periplocoside O, in P-10082
- C₃₆H₅₆O₁₀S₂
Shaagrokol C, S-10056
- C₃₆H₅₆O₁₁
20,24-Epoxy-2-glucosyloxy-16,25-dihydroxycucurbit-5-ene-3,11-dione, in E-10143
2-Glucosyloxy-16,20,26-trihydroxycucurbita-5,24-diene-3,11-dione, in P-10042
Periplogenin digitoxosocymaroside, in T-10134
- C₃₆H₅₆O₁₂
20,24-Epoxy-2-glucosyloxy-16,25,26-trihydroxycucurbit-5-ene-3,11-dione, in E-10143
Oodorobioside K, in U-10020
Vernonioside B₂, in D-10085
- C₃₆H₅₆O₁₃
Oxystelmine, in T-10134
▷ Periplocin, in T-10134
- C₃₆H₅₆O₁₄
Emicin, in T-10134
- C₃₆H₅₈O₆
▷ 3-Hexadecanoylingenol, in I-10012
20-Palmitoylingenol, in I-10012
- C₃₆H₅₈O₈
34-Ethylhuratoxin; 1,2,22,23,24,25-Hexahydro, in E-10202
34-Ethylhuratoxin; 15,16,22,23,24,25-Hexahydro, in E-10202
Pastuchoside C, in D-10212
- C₃₆H₅₈O₉
Caulosaponin, in D-10212
Scandenoside R₁, in T-10136
Scandenoside R₂, in T-10136
- C₃₆H₅₈O₁₀
Kaji-ichigoside F1, in T-10194
Rosamultin, in T-10194
Rotungenoside, in T-10195
Tormentonic acid; β-D-Galactopyranosyl ester, in T-10194
- C₃₆H₅₈O₁₁
20,24-Epoxy-2-glucosyloxy-3,16,25-trihydroxycucurbit-5-ene-11-one, in E-10143
Gymnemic acid VII, in O-10027
Kinoin A; 3-O-β-D-Glucopyranoside, in P-10043
2,3,16,20,26-Pentahydroxycucurbita-5,24-diene-11-one; 2-O-β-D-Glucopyranoside, in P-10042
- C₃₆H₅₈O₁₂
6,23-Dihydroxytormentonic acid; β-D-Glucopyranosyl ester, in P-10064
20,24-Epoxy-2,3,16,25,26-pentahydroxycucurbit-5-ene-11-one; 2-O-β-D-Glucopyranoside, in E-10143
- C₃₆H₅₈O₂₂
Avileurekanose A, A-10144
- C₃₆H₅₉ClO₈
34-Ethylhuratoxin; 6,7-Deepoxy, 6-hydroxy, 7-chloro, 15,16,22,23,24,25-hexahydro, in E-10202
- C₃₆H₆₀O₄
3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)-6,11-hopadiene, M-10073
- C₃₆H₆₀O₇
Ginsenoside Rh₃, in D-10003
- C₃₆H₆₀O₉
Antibiotic L 681110B₁, in B-10005
- C₃₆H₆₂O₄
3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)-6-hopene, M-10075
3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)-11-hopene, M-10076
- C₃₆H₆₂O₈
Ginsenoside Rh₂, in D-10011
(20R)-Ginsenoside Rh₂, in D-10011
- C₃₆H₆₂O₉
Ginsenoside F₁, in D-10009
Ginsenoside Rh₁, in D-10009
- C₃₆H₆₂O₁₀
Ginsenoside M_{7ca}, in D-10007
- C₃₆H₆₂O₂₀
Atractyliside F, in E-10218
- C₃₆H₆₃N₃O₉
Enniatin A, E-10016
Enniatin F, E-10021
- C₃₆H₆₄O₄
3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)hopane, M-10074
- C₃₆H₆₈O
6,27-Hexatriacontadien-2-one, H-10064
8,27-Hexatriacontadien-2-one, H-10065
- C₃₆H₇₂O₂
25-Hydroxy-33-methyl-6-pentatriacontanone, H-10188
Triacontanoic acid; Hexyl ester, in T-10100
- C₃₆H₇₄O
1-Hexatriacontanol, H-10066
- C₃₇H₄N₂O₆
Menisidine, in F-10001
- C₃₇H₂₈O₁₈
Prodelphinidin A₂ 3'-gallate, in P-10151
Samarangenin A, S-10008
- C₃₇H₃₄N₂O₄
Benthophoenin, B-10012
- C₃₇H₃₆O₂₀
Luteolin; 3'-O-(O-Feruloylglucopyranoside), 7-O-glucuronoside, in T-10052
- C₃₇H₃₇ClN₂O₆
12-O-Methylatherospermoline; 1,3,4-Tridehydro, chloride, in F-10001
- C₃₇H₃₇N₂O₆[⊕]
Fenfangjine D, in F-10001
- C₃₇H₃₈N₂O₇
12-O-Methylatherospermoline; 1,3,4-Tridehydro, hydroxide, in F-10001
- C₃₇H₃₈O₁₉
Populinin; 3-(O-Feruloyl-β-D-glucopyranoside), in P-10133
- C₃₇H₃₉NO₉
1,8,9,14-Tetrahydroxydihydro-β-agarofuran; 14-(3-Pyridinecarbonyl), 8,9-dibenzoyl, 1-Ac, in T-10043
Triptogelin B₂, in T-10042
- C₃₇H₄₀N₂O₆
Cycleabarbantine, in I-10052
Fangchinoline, F-10001
1-O-Methylchitraline, in P-10001
2-Norisotetrandrine, in I-10052
2'-Norisotetrandrine, in I-10052
2'-Norobaberine, in O-10001
Pakistanine, P-10001
Waziristanine, in P-10001
- C₃₇H₄₀N₂O₇
Fenfangjine B, in F-10001
Fenfangjine C, in F-10001
Limacine 2'α-N-oxide, in F-10001
Limacine 2β-N-oxide, in F-10001
Limacine 2'β-N-oxide, in F-10001
2-Norobaberine 2'β-N-oxide, in O-10001
- C₃₇H₄₂N₂O₆
N-Demethylauricine, in D-10022
N'-Demethylauricine, in D-10022
- C₃₇H₄₂O₁₂
Triptofordin D₂, in H-10054
- C₃₇H₄₂O₁₄
2α,6β,8α,14-Tetraacetoxy-1α,9α-dibenzoyloxy-4β-hydroxydihydro-β-agarofuran, in H-10025
- C₃₇H₄₅N₅O₅
Neobonellin, N-10013
- C₃₇H₄₈O₁₀
Gnidilatin, G-10107
- C₃₇H₄₈O₁₄
7-Acetyltrichilin A, in T-10108
11-Taxen-2,4,5,7,9,10,13,20-octol; 2-Benzoyl, 5,7,9,10,13-penta-Ac, in T-10010
11-Taxen-2,4,5,7,9,10,13,20-octol; 2-Benzoyl, 7,9,10,13,20-penta-Ac, in T-10010
- C₃₇H₄₉NO₉
Taxine II, in T-10070
- C₃₇H₅₀O₂₅
β-D-Arabinopyranosyl-(1→2)-α-D-mannopyranosyl-(1→2)-D-glucose; Deca-Ac, in A-10110
- C₃₇H₅₂O₁₀
Huratoxin; 12β-Acetoxy, 14'-Methyl, in H-10076
- C₃₇H₅₂O₁₃
Fevicordin A glucoside, in F-10008
- C₃₇H₅₄O₂
Dihydroagosterol; Benzoyl, in L-10023
- C₃₇H₅₄O₆
Hericenone H, H-10035
- C₃₇H₅₄O₁₁
Reveromycin C, R-10018
Reveromycin D, R-10019
Spinose B, in C-10140
- C₃₇H₅₄O₁₃
Cayaponoside A₁, in C-10041

- Fevicordin B glucoside, *in* F-10008
2,3,16,20,25-Pentahydroxy-29-norcucurbita-
1,3,5(10)-triene-11,22-dione; 2-*O*- β -D-
Glucopyranoside, 25-Ac, *in* P-10058
Physodin C, *in* D-10121
- C₃₇H₅₄O₁₄**
Borovoluboside, B-10038
- C₃₇H₅₆O₂**
Dihydrolanosterol; Benzoyl, *in* L-10024
- C₃₇H₅₆O₁₀**
Cuminydoside A, C-10144
16,23:16,24-Diepoxycholeart-7-ene-3,15,25-
triol; 3-*O*-(3-Acetyl- β -D-xylopyranoside), *in*
D-10070
- C₃₇H₅₆O₁₅**
Glucostrebloside, *in* T-10177
- C₃₇H₅₈O₆**
Hericenone G, H-10034
- C₃₇H₅₈O₈**
▷ Cocarcinogen B1, *in* P-10063
- C₃₇H₅₈O₉**
Hederagenin; 3-*O*-(2-*O*-Acetyl- α -L-
arabinopyranoside), *in* D-10212
- C₃₇H₅₈O₁₁**
16,23-Epoxycholeart-7-ene-3,15,16,24,25-
pentol; 3-*O*- β -D-Xylopyranoside, 24-Ac, *in*
E-10052
- C₃₇H₅₈O₁₄**
Glucokamaloside, *in* T-10134
- C₃₇H₆₀N₆O₇S**
Patellin 2, P-10014
- C₃₇H₆₆O₆**
Giganenin, G-10033
Gigantrionenin, *in* G-10034
- C₃₇H₆₆O₇**
Gigantetronin, G-10034
- C₃₇H₆₈O₅**
Uvariamicin I, U-10017
Uvariamicin II, U-10018
Uvariamicin III, U-10019
- C₃₇H₇₀O**
8,28-Heptatriacontadien-2-one, H-10028
- C₃₇H₇₀O₆**
Glycerol 1-dodecanoate 2-tetradecanoate 3-
octanoate, G-10100
- C₃₇H₇₂O**
28-Heptatriaconten-2-one, H-10030
- C₃₇H₇₆O**
1-Heptatriacontanol, H-10029
- C₃₈H₄₀N₄O**
Longicaudatine, L-10060
- C₃₈H₄₀O₉**
Celafolin D1, *in* T-10042
1,6,8,9-Tetrahydroxydihydro- β -agarofuran;
6,8,9-Tribenzoyl, 1-Ac, *in* T-10042
- C₃₈H₄₀O₁₀**
1,2,4,6,9-Pentahydroxydihydro- β -agarofuran;
1,6,9-Tribenzoyl, 2-Ac, *in* P-10045
Sincassiol†, *in* P-10046
- C₃₈H₄₂N₂O₆**
Cycleaneonine, C-10154
▷ Isotetrandrine, I-10052
1-*O*-Methylpakistanine, *in* P-10001
Obaberine, O-10001
- C₃₈H₄₂N₂O₇**
Isotetrandrine *N*-2'-oxide, *in* I-10052
- C₃₈H₄₂N₄O**
Dihydrolongicaudatine, *in* L-10060
- C₃₈H₄₃N₂O₆[⊕]**
*N*²-Methylfangchinoline, *in* F-10001
- C₃₈H₄₄N₂O₆**
▷ Dauricine, D-10022
- C₃₈H₄₆O₉**
Neogambogic acid, N-10017
- C₃₈H₄₆O₁₂**
6 β ,14-Diacetoxy-1 α ,9 α -dibenzoyloxy-4 β -
hydroxy-8 α -(2-methylbutanoyloxy)dihydro-
 β -agarofuran, *in* H-10054
- C₃₈H₄₆O₁₈**
Fraxuhdoside, F-10020
- C₃₈H₄₇NO₁₅**
1,2,4,6,8,9,14-Heptahydroxydihydro- β -
agarofuran; 2-(3-Furoyl), 8,14-bis(2-
methylpropanoyl), 9-(3-pyridinecarbonyl),
1,6-di-Ac, *in* H-10025
- C₃₈H₄₇NO₁₈**
Peritassine A, P-10083
- C₃₈H₄₇N₅O₅**
Neobonellin; α -Me ester, *in* N-10013
- C₃₈H₅₀O₆**
Guttiferone A, G-10139
Guttiferone E, G-10142
- C₃₈H₅₀O₁₁**
6'-*O*-(4-Hydroxycinnamoyl)desglucouzarin, *in*
U-10020
- C₃₈H₅₂O₁₀**
5,20-Diacetylthuratoin, *in* H-10076
- C₃₈H₅₄O₁₃**
▷ Elaterinide, *in* C-10140
- C₃₈H₅₅NO₉**
Lituarine A, *in* L-10057
- C₃₈H₅₅NO₁₁**
Lituarine C, L-10057
- C₃₈H₅₆N₄O₁₀**
Hellebritoxin, *in* T-10175
- C₃₈H₅₆N₈O₈**
Pseudoaxinellin, P-10159
- C₃₈H₅₆O₁₃**
25-*O*-Acetylbryoamaride, *in* C-10140
- C₃₈H₆₀O₈**
▷ Cocarcinogen A4, *in* P-10063
- C₃₈H₆₀O₁₇**
Anatolioside C, *in* A-10080
- C₃₈H₆₂O₁₀**
Cumingianoside F, C-10147
- C₃₈H₆₂O₁₇**
Anatolioside B, A-10080
- C₃₈H₆₄O₁₁**
Cumingianoside B, C-10146
- C₃₈H₆₄O₁₇**
Lyciumoside II, *in* P-10111
- C₃₈H₇₆O₂**
34-Hydroxy-8-methyl-5-heptatriacontanone,
H-10186
- C₃₈H₇₈O**
1-Octatriacontanol, O-10015
- C₃₉H₃₄O₁₆**
Okaniin; 4'-*O*-(2-*O*-Caffeoyl-6-*O*-*p*-coumaroyl-
 β -D-glucopyranoside), *in* P-10040
- C₃₉H₃₈O₉**
Sophoraflavanone J, S-10079
- C₃₉H₄₃NO₁₂**
19-Hydroxyngol; 19-(3-Pyridinecarbonyl), 8-
benzoyl, 3,7,12-tri-Ac, *in* H-10168
- C₃₉H₄₅N₂O₆[⊕]**
2'-*N*-Methylisotetrandrine, *in* I-10052
- C₃₉H₄₆N₂O₆**
O-Methyldauricine, *in* D-10022
- C₃₉H₄₆N₂O₇**
O-Methylauricine 2-*N*-oxide, *in* D-10022
O-Methylauricine 2'-*N*-oxide, *in* D-10022
- C₃₉H₄₈O₁₇**
Hazaleanin B, H-10006
- C₃₉H₄₉NO₂₃**
Xeranthin, *in* H-10166
- C₃₉H₅₀O₁₃**
 α -L-Rhamnopyranosyl-(1→3)- α -L-
rhamnopyranosyl-(1→2)-L-rhamnose;
Benzyl glycoside, 3,4-dibenzyl, *in* R-10028
- C₃₉H₅₀O₁₅**
 α -L-Fucopyranosyl-(1→2)- β -D-
galactopyranosyl-(1→4)-D-glucose; 2',3',4'-
Tribenzyl, *in* F-10024
- C₃₉H₅₀O₂₅**
Luteolin; 4'-*O*-Sophoroside, 7-*O*-
neohesperidoside, *in* T-10052
- C₃₉H₅₀O₂₆**
Populin; 3-*O*-Sophorotrioside, *in* P-10133
- C₃₉H₅₂O₅**
Tereticornate B, *in* D-10258
- C₃₉H₅₄O₅**
Machaerinic acid; 21-Cinnamoyl, *in* D-10211
Ursolic acid; 3-(4-Hydroxycinnamoyl), *in*
H-10242
- C₃₉H₅₄O₆**
Obtusilic acid, *in* D-10262
- C₃₉H₅₄O₇**
3-*cis-p*-Coumaroyltormentic acid, *in* T-10194
3-*trans-p*-Coumaroyltormentic acid, *in*
T-10194
- C₃₉H₅₄O₂₆**
 α -D-Glucopyranosyl-(1→3)- α -D-
glucopyranosyl-(1→3)-D-glucose; Me
glycoside, deca-Ac, *in* G-10048
- C₃₉H₅₆O₂**
Euphol cinnamate, *in* E-10228
- C₃₉H₅₆O₁₂**
Spinoside A, *in* C-10140
- C₃₉H₅₈O₁₁**
16,23:16,24-Diepoxycholeart-7-ene-3,15,25-
triol; 3-*O*-(2,4-Diacetyl- β -D-
xylopyranoside), *in* D-10070
- C₃₉H₆₀O₁₂**
Beesioside I, *in* D-10069
- C₃₉H₆₁N₅O₁₂**
▷ 11-Oxoannamide A, *in* O-10035
- C₃₉H₆₂O₁₂**
Hispidin†, *in* H-10224
- C₃₉H₆₂O₁₃**
Pingpeisaponin, *in* S-10101
- C₃₉H₆₂O₁₅**
Soladulcoside A, *in* T-10191
- C₃₉H₆₃NO₁₀**
 β -Chaconine, *in* S-10072
- C₃₉H₆₃NO₁₁**
 β -Solanine, *in* S-10072
Stenandidine, *in* S-10072
- C₃₉H₆₃NO₁₂**
Etiolinine, *in* E-10206
- C₃₉H₆₃N₅O₁₂**
▷ 6,7-Dihydro-11-oxoannamide A, *in* O-10035
Onnamide A, O-10035
▷ 4Z-Onnamide A, *in* O-10035
- C₃₉H₆₅N₅O₁₂**
▷ 6,7-Dihydroannamide A, *in* O-10035
- C₃₉H₆₆O₁₄**
Forbeside K, *in* E-10185
- C₃₉H₆₈O₁₄**
Culcitoside C₁, *in* C-10090
Forbeside J, *in* C-10090
- C₃₉H₇₀O₁₉**
Operculinic acid F, *in* H-10160
- C₄₀H₃₂O₁₅**
Buccinulin, *in* R-10032

- C₄₀H₃₂O₂₃
3-Glucosyl-2,3',4,4',6'-
pentahydroxybenzophenone; 2'',3'',6''-Tris-
(3,4,5-trihydroxybenzoyl), *in* G-10087
- C₄₀H₃₆O₁₂
Sangganon Q, S-10012
- C₄₀H₄₂N₂O₁₄
Cangorin D, *in* H-10025
- C₄₀H₄₂O₆
Spiranthesol, S-10090
- C₄₀H₄₂O₁₁
Triptogelin A11, *in* P-10046
- C₄₀H₄₂O₁₂
ent-5 α ,11-Epoxy-1 β ,4 α ,6 α ,8 β ,9 β ,14-
eudesmanhexol; 1,8,9-Tribenzoyl, 6,15-di-
Ac, *in* H-10054
- C₄₀H₄₆N₄O₄
Epiervafolidene, *in* E-10190
Ervafolidene, *in* E-10190
- C₄₀H₄₆N₄O₅
3-Epiervafolidine, *in* E-10190
Ervafolidine, E-10190
- C₄₀H₄₆N₄O₆
19'*S*-Hydroxy-3-epiervafolidine, *in* E-10190
19'*R*-Hydroxyervafolidine, *in* E-10190
- C₄₀H₄₆N₄O₈
Coproporphyrin III; Tetra-Me ester, *in*
C-10126
- C₄₀H₄₈N₂O₆
Petuniansterone C 7,22-dinicotinate, *in* P-10088
- C₄₀H₄₉NO₁₄
Betaclamycin B, *in* C-10098
- C₄₀H₅₀O₁₄
Zaragocic acid C, Z-10002
- C₄₀H₅₂O
3,4-Didehydro- β , β -caroten-2-one, D-10060
- C₄₀H₅₂O₄
2,3-Dihydroxy- β , β -carotene-4,4'-dione,
D-10123
- C₄₀H₅₄O₄
4-Ketocapsanthin, *in* L-10053
- C₄₀H₅₄O₆
Tereticornate A, *in* D-10258
- C₄₀H₅₄O₁₀
34-Ethylthuratoin; 26,27-Didehydro, 5,20-di-
Ac, *in* E-10202
- C₄₀H₅₄O₂₇
 α -D-Glucopyranosyl-(1 \rightarrow 2)-[α -D-
glucopyranosyl-(1 \rightarrow 4)]-D-glucose; Undeca-
Ac, *in* G-10045
 α -D-Glucopyranosyl-(1 \rightarrow 3)- α -D-
glucopyranosyl-(1 \rightarrow 3)-D-glucose; Undeca-
Ac, *in* G-10048
 α -D-Glucopyranosyl-(1 \rightarrow 4)- α -D-
glucopyranosyl-(1 \rightarrow 2)-D-glucose; Undeca-
Ac, *in* G-10052
 α -D-Glucopyranosyl-(1 \rightarrow 6)- α -D-
glucopyranosyl-(1 \rightarrow 3)-D-glucose; Undeca-
Ac, *in* G-10056
 β -D-Glucopyranosyl-(1 \rightarrow 3)- β -D-
glucopyranosyl-(1 \rightarrow 4)-D-glucose; Undeca-
Ac, *in* G-10062
 β -D-Glucopyranosyl-(1 \rightarrow 3)- β -D-
glucopyranosyl-(1 \rightarrow 6)-D-glucose; Undeca-
Ac, *in* G-10063
 β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-
glucopyranosyl-(1 \rightarrow 3)-D-glucose; Undeca-
Ac, *in* G-10064
 β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-
glucopyranosyl-(1 \rightarrow 3)-D-glucose; Undeca-
Ac, *in* G-10065
 β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-
glucopyranosyl-(1 \rightarrow 4)-D-glucose; Undeca-
Ac, *in* G-10066
- C₄₀H₅₆O₄
Lilixanthin, L-10053
- C₄₀H₅₆O₈
3 β ,19 α -Dihydroxy-24-*trans*-ferulyloxy-12-
ursen-28-oic acid, *in* T-10195
- C₄₀H₅₇NO₁₂
Lituarine B, *in* L-10057
- C₄₀H₅₈O₅
Ursolic acid; Ac, 2-methoxybenzyl ester, *in*
H-10242
Ursolic acid; Ac, 4-methoxybenzyl ester, *in*
H-10242
- C₄₀H₅₈O₁₅
Physodin D, *in* D-10121
- C₄₀H₆₀O₁₃
Pfaffoside A, *in* P-10091
- C₄₀H₆₁BrN₈O₉
Konbanamide, K-10016
- C₄₀H₆₂
Phytofluene, H-10050
9-*cis*-Phytofluene, *in* H-10050
- C₄₀H₆₃ClO₁₀
34-Ethylthuratoin; 6,7-Deepoxy, 6-hydroxy,
7-chloro, 15,16,22,23,24,25-hexahydro,
5,20-di-Ac, *in* E-10202
- C₄₀H₆₄O₁₁
Cumingianoside D, *in* C-10146
Cumingianoside E, *in* C-10147
- C₄₀H₆₄O₁₂
Akebiasaponin B, *in* D-10212
Bacoside A₁, *in* J-10007
Hederagenin; 3-*O*-[β -D-Xylopyranosyl(1 \rightarrow 3)-
 α -L-arabinopyranoside], *in* D-10212
- C₄₀H₆₆O₁₂
Cumingianoside A, *in* C-10146
- C₄₀H₇₀O₁₄
Culcitoside C₃, *in* E-10179
- C₄₀H₇₀O₁₅
Culcitoside C₂, *in* E-10178
- C₄₀H₇₂O₁₉
Operculinic acid C, *in* H-10160
- C₄₀H₇₂O₂₀
Operculinic acid E, *in* H-10160
- C₄₀H₇₂O₂₂
Turpethinic acid E, *in* H-10160
- C₄₀H₇₂O₂₃
Turpethinic acid D, *in* D-10176
- C₄₀H₇₄O₁₄S₃
Izumenolide, I-10059
- C₄₀H₇₆O₁₈S₄
Antibiotic MG 299A, *in* I-10059
- C₄₀H₇₈O₁₈S₄
Antibiotic MG 299B, *in* I-10059
- C₄₁H₂₆O₂₅
Mallotusin, M-10010
- C₄₁H₂₆O₂₇
Lagerstannin B, L-10018
- C₄₁H₂₈O₂₆
Bixanin, B-10036
Casuarinin, C-10036
Stachyurin, *in* C-10036
- C₄₁H₃₀O₂₈
Mallotinin, M-10009
- C₄₁H₃₂O₂₆
3-*O*-Digalloyl-1,2,6-tri-*O*-galloyl- β -D-
glucopyranose, *in* T-10024
6-*O*-Digalloyl-1,2,3-tri-*O*-galloyl- β -D-
glucopyranose, *in* T-10024
1,2,3,4,6-Pentagalloylglucose, P-10035
- C₄₁H₃₂O₂₈
Neochebularic acid, N-10015
- C₄₁H₄₀O₉
Euphorbia factor P₅, *in* I-10012
- C₄₁H₄₃NO₁₂
Triptofordinine A1, *in* H-10054
Triptofordinine A2, *in* H-10054
- C₄₁H₄₇NO₁₇
Wilforzine, *in* W-10001
- C₄₁H₄₇NO₁₉
Wilforine \ddagger ; *O*²-Debenzoyl, *O*²-furoyl, *in*
W-10001
- C₄₁H₅₀N₂O₉
Rubiflavin C1, R-10053
Rubiflavin C2, *in* R-10053
- C₄₁H₅₂N₂O₉
Rubiflavin D, *in* R-10053
- C₄₁H₅₂N₂O₁₀
Rubiflavin E, *in* R-10053
- C₄₁H₅₂O₂
Thorexanthin, T-10085
- C₄₁H₅₈O₁₈
Physodin B, *in* T-10061
- C₄₁H₆₀O₁₇
Fevicordin C gentiobioside, *in* F-10008
- C₄₁H₆₂O₁₄
Cynatratoside B, *in* G-10039
Cynatratoside C, *in* G-10039
Pfaffoside C, *in* P-10091
- C₄₁H₆₂O₁₆
Fevicordin E gentiobioside, *in* F-10008
- C₄₁H₆₂O₁₇
Fevicordin D gentiobioside, *in* F-10008
Fevicordin F gentiobioside, *in* F-10008
- C₄₁H₆₂O₁₉
Olitoriusin, *in* T-10177
- C₄₁H₆₄O₁₃
Cynarasaponin B, *in* H-10242
- C₄₁H₆₄O₁₄
Cynarasaponin F, *in* D-10259
- C₄₁H₆₄O₁₉
Uzaroside, *in* U-10020
- C₄₁H₆₆O₁₂
Cephalaroside C, C-10062
 \triangleright Sapindoside A, *in* D-10212
- C₄₁H₆₆O₁₃
Calthoside D, *in* D-10212
Collinsonidin, *in* D-10212
Cyclicodiscic acid; 3-*O*-[α -L-
Arabinopyranosyl-(1 \rightarrow 3)- β -D-
glucopyranoside], *in* D-10194
Hederacoside A, *in* D-10212
HN saponin F, *in* D-10212
- C₄₁H₆₈O₁₂
Cumingianoside C, *in* C-10146
- C₄₁H₆₈O₁₃
Bafilomycin A₁; *O*²¹-(α -L-Rhamnopyranoside),
in B-10005
- C₄₁H₇₀O₁₂
Chikusetsusaponin Ia, *in* D-10011
Gynosaponin M, *in* D-10011
- C₄₁H₇₀O₁₃
Ginsenoside F₃, *in* D-10009
Notoginsenoside R₂, *in* D-10009
- C₄₂H₃₀O₉
 α -Viniferin, V-10025
- C₄₂H₃₂O₉
Gnetin H, G-10105
Gnetin I, G-10106
- C₄₂H₄₂O₉
Euphorbia factor P₃, *in* I-10012
- C₄₂H₄₄O₁₄
8 α -Benzoyloxyacetylpringleine, *in* H-10025
1,2,4,6,8,9,14-Heptahydroxydihydro- β -
agarofuran; 1,8,9-Tribenzoyl, 2,6,14-tri-Ac,
in H-10025

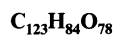
- C₄₂H₄₆N₄O₅
Scandomelidine, S-10031
- C₄₂H₄₆O₂₂
Populin; 3-*O*-(*p*-Coumaroylrutinoside), *in* P-10133
Variabiloside C, *in* P-10133
Variabiloside D, *in* P-10133
- C₄₂H₄₆O₂₃
Populin; 3-*O*-(*p*-Coumaroyl- β -D-glucopyranoside), 4'-*O*- β -D-glucopyranoside, *in* P-10133
- C₄₂H₄₇NO₁₁
Triptogelin A5, *in* P-10046
- C₄₂H₄₈N₂O₁₈
Wilforfine, *in* W-10001
- C₄₂H₅₁NO₁₅
▷ Aclacinomycin Y, A-10020
Cinerubin R, *in* A-10020
- C₄₂H₅₁NO₁₆
▷ Cinerubin B, C-10098
Pyrraculomycin, *in* A-10020
Spartanamicin A, *in* C-10098
- C₄₂H₅₂N₂O₈
Petunasterone B 7,22-dinicotinate, *in* P-10087
- C₄₂H₅₂N₆O₁₀
RA-VIII, R-10010
- C₄₂H₅₃NO₁₆
Spartanamicin B, *in* A-10020
- C₄₂H₅₄O₂₄
Jasamplexoside A, J-10002
- C₄₂H₅₄O₂₅
Jasamplexoside B, *in* J-10002
- C₄₂H₅₈O₉
Neosartortuic acid, N-10021
- C₄₂H₆₀O₁₄
Cryptoporic acid G; 5'' \rightarrow 15-Lactone, dicarboxylic acid, *in* C-10138
- C₄₂H₆₄O₁₄
Cynatratoside F, *in* G-10039
- C₄₂H₆₄O₁₅
Glaucoside E, *in* G-10039
- C₄₂H₆₄O₁₆
Licoricesaponin J2, *in* D-10213
- C₄₂H₆₄O₁₇
Brydioside A, *in* C-10140
- C₄₂H₆₆O₁₃
Gouanoside A, *in* G-10114
- C₄₂H₆₆O₁₄
Cynarasaponin C, *in* H-10242
- C₄₂H₆₆O₁₅
Cynarasaponin E, *in* D-10261
Spinasaponin B, *in* D-10212
- C₄₂H₆₆O₁₇
Odoroside K, *in* U-10020
- C₄₂H₆₈O₁₃
Azukisaponin I, *in* O-10024
Carnosifoside I, *in* C-10142
3,16-Dihydroxy-24-cycloarten-6-one; Di-*O*- β -D-glucopyranoside, *in* D-10129
Kaikasaponin I, *in* O-10024
- C₄₂H₆₈O₁₄
Gouanoside B, *in* G-10115
Scandenoside R₃, *in* T-10136
Scandenoside R₄, *in* T-10136
- C₄₂H₆₈O₁₅
Cucurbitacin V; 3-*O*- β -D-Gentiobioside, *in* T-10040
Kinoin A; 23,24-Dihydro, 22-ketone, 3-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], *in* P-10043
Kinoin A; 3-*O*-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], *in* P-10043
Rosamultin 3-glucoside, *in* T-10194
- C₄₂H₆₈O₁₆
Cucurbitacin U; 3-*O*- β -D-Gentiobioside, *in* C-10141
- C₄₂H₇₀O₁₂
Dammara-20,24-diene-3,6,12-triol; 6-*O*-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], *in* D-10005
Ginsenoside F₄, *in* D-10004
- C₄₂H₇₀O₁₃
Ginsenoside La, *in* E-10058
Junceoside, *in* O-10030
- C₄₂H₇₀O₁₅
Pardarinoside B, *in* F-10038
- C₄₂H₇₀O₁₆
Pardarinoside A, *in* F-10036
- C₄₂H₇₂O₄
5,7-Dihydroxy-2-tritriacontyl-4*H*-1-benzopyran-4-one, D-10256
- C₄₂H₇₂O₁₂
Gynosaponin N, *in* D-10011
- C₄₂H₇₂O₁₃
Ginsenoside C, *in* D-10009
Ginsenoside F₂, *in* D-10011
Ginsenoside Rg₃, *in* D-10011
(2*O*R)-Ginsenoside Rg₃, *in* D-10011
- C₄₂H₇₂O₁₄
Ginsenoside A₁, *in* E-10056
▷ Ginsenoside A₂, *in* D-10009
Ginsenoside R₁, *in* D-10009
Gynosaponin U, *in* D-10010
- C₄₂H₇₂O₁₅
Gycomoside I, *in* D-10006
- C₄₂H₇₆O₃
Parvifolinic acid, P-10012
- C₄₂H₈₃NO₁₀
Astercerebroside E, A-10140
- C₄₃H₄₄O₂₆
Luteolin; 3'-*O*-Feruloylglucoside, 4',7-di-*O*-glucuronoside, *in* T-10052
- C₄₃H₄₉NO₁₁
Triptogelin A9, *in* P-10046
- C₄₃H₄₉NO₁₈
Peritassine B, *in* P-10083
Wilforinef, W-10001
- C₄₃H₅₀N₆O₁₀
RA-IX, R-10003
- C₄₃H₅₂N₆O₁₁
RA-X, R-10011
- C₄₃H₅₂O₂₀
Complanatin, C-10120
- C₄₃H₅₈O₆
Guttiferone B, G-10140
Guttiferone C, G-10141
Guttiferone D, *in* G-10141
- C₄₃H₆₀O₉
Methyl neosartortuate, *in* N-10021
- C₄₃H₆₂O₁₈
Fevicordin A gentiobioside, *in* F-10008
- C₄₃H₆₄O₄
Petiolate, P-10085
- C₄₃H₆₄O₁₁
Glochidioside N, *in* O-10027
- C₄₃H₆₄O₁₈
Fevicordin B gentiobioside, *in* F-10008
- C₄₃H₆₈O₃
41-Hydroxy-2,42-tritetracontapentaenediynoic acid, H-10238
- C₄₃H₆₉NO₁₄
Solacauline, *in* S-10072
- C₄₃H₇₀O₁₄
Thalictoside I, *in* E-10053
Thalictoside II, *in* E-10053
- C₄₃H₇₂O₁₃
Antibiotic NK 155141, *in* B-10005
- C₄₃H₇₄O₄
5-Hydroxy-7-methoxy-2-tritriacontyl-4*H*-1-benzopyran-4-one, *in* D-10256
- C₄₃H₈₀O₆
Glycerol 1-(9-octadecenoate) 2-octanoate 3-tetradecanoate, G-10101
- C₄₃H₈₁NO₉
Astercerebroside A, A-10136
- C₄₃H₈₃NO₁₀
Astercerebroside D, A-10139
Astrocerebroside A, *in* A-10142
- C₄₄H₃₂O₂₂
Samarangenin B, *in* S-10008
- C₄₄H₃₆O₂₂
Assamicain A, A-10134
Assamicain B, *in* A-10134
Assamicain C, A-10135
- C₄₄H₄₃NO₁₁
Triptogelin A6, *in* P-10046
Triptogelin A10, *in* P-10046
- C₄₄H₄₃N₃O₁₄
Cangorin A, *in* H-10025
- C₄₄H₅₀N₄O₁₀
Conophylline, C-10121
- C₄₄H₅₀N₈
Psycholeine, P-10166
- C₄₄H₅₀O₁₄
Taxchinin B, T-10009
- C₄₄H₅₀O₂₅
Populin; 3-*O*-(2'-*O*-Sinapoilsophoroside), *in* P-10133
- C₄₄H₅₄O₁₇
Dutomycin, D-10313
- C₄₄H₆₄O₁₀
Isodopharin E, I-10031
- C₄₄H₆₄O₁₄
Cryptoporic acid D, *in* C-10138
- C₄₄H₆₆O₁₄
Cryptoporic acid F, *in* C-10138
- C₄₄H₆₆O₁₅
Cryptoporic acid G, C-10138
- C₄₄H₆₈O₁₅
Lucyoside M, *in* D-10212
- C₄₄H₇₀O₃
Petroformyne A, *in* H-10238
- C₄₄H₇₂O₁₄
Didemnaketal A, D-10062
- C₄₄H₇₂O₁₈
Pardarinoside E, *in* S-10100
- C₄₄H₇₂O₁₉S
Forbeside H, *in* T-10135
- C₄₄H₇₃NO₁₆
Megacarpine, *in* S-10071
- C₄₄H₈₀NO₇P
1-*O*-Hexadecyl-2-*O*-eicosapentaenoyl-*sn*-glycero-3-phosphocholine, H-10043
- C₄₄H₈₂NO₇P
1-*O*-Hexadecyl-2-*O*-arachidonoyl-*sn*-glycero-3-phosphocholine, H-10039
- C₄₄H₈₃NO₉
Astercerebroside B, A-10137
Astercerebroside C, A-10138
- C₄₄H₈₄NO₇P
1-*O*-Hexadecyl-2-*O*-dihomogammalinolenoyl-*sn*-glycero-3-phosphocholine, H-10041
- C₄₄H₈₅NO₁₀
Astrocerebroside B, *in* A-10142

- C₄₄H₈₈O₂**
Tricontanoic acid; Tetradecyl ester, *in* T-10100
- C₄₅H₃₆O₁₈**
3,3',4',5,7-Pentahydroxyflavan(2→7,4→8)-3,3',4',5,7-pentahydroxyflavan(4→8)-3,3',4',5,7-pentahydroxyflavan, P-10054
- C₄₅H₃₆O₂₂**
Oolonghomobisflavan A, O-10036
Oolonghomobisflavan B, O-10037
- C₄₅H₃₈O₁₅**
4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-6-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,7-dihydroxy-2*H*-1-benzopyran-4-yl]-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-3,5,9-triol; 3''-Deoxy, *in* D-10226
- 4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-6-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,7-dihydroxy-2*H*-1-benzopyran-4-yl]-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-3,5,9-triol; 3''-Deoxy, *in* D-10226
- C₄₅H₃₈O₁₆**
4,8-Bis(2,4-dihydroxyphenyl)2,6,10-tris(3,4-dihydroxyphenyl)-3,4,7,8,11,12-hexahydro-2*H*,6*H*,10*H*-benzo[1,2-*b*:3,4-*b'*,5,6-*b''*]tripyrans-3,7,11-triol, B-10035
- 4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-6-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,7-dihydroxy-2*H*-1-benzopyran-4-yl]-3,4,9,10-tetrahydro-2*H*,8*H*-benzo[1,2-*b*:3,4-*b'*]dipyran-3,5,9-triol, D-10226
- C₄₅H₄₄N₂O₁₄**
Cangorin C, *in* H-10025
Cangorin E, *in* H-10025
- C₄₅H₄₄O₁₁**
1,2,6,8,9-Pentahydroxydihydro-β-agarofuran; 1,2,8,9-Tetrazobenzoyl, 6-Ac, *in* P-10046
- C₄₅H₅₄N₄O₇**
11-[10-(11-Methoxyvincamajinyl)]vincorine, M-10041
11[10-(11-Methoxy-17-*epi*-vincamajinyl)]vincorine, *in* M-10041
- C₄₅H₅₆Cl₂N₂O₉**
Antibiotic BMY 42448, A-10099
- C₄₅H₆₄O₁₀**
Machaerinic acid; 21-Cinnamoyl, 3-*O*-β-D-glucopyranoside, *in* D-10211
- C₄₅H₆₈O₁₄**
Cryptoporin acid C, *in* C-10138
- C₄₅H₆₈O₁₅**
Cryptoporin acid E, *in* C-10138
- C₄₅H₇₂O₃**
43-Hydroxy-2,44-pentatetracontapentaenediynoic acid, H-10214
- C₄₅H₇₂O₁₅**
Ampelozigenin; 3-*O*-[α-L-Rhamnopyranosyl-(1→2)-β-D-glucopyranoside], 15-Ac, *in* A-10075
- C₄₅H₇₂O₁₈**
Soladulcoside B, *in* D-10253
- C₄₅H₇₂O₁₉S**
Forbeside G, *in* T-10135
- C₄₅H₇₃NO₁₄**
▷ α-Chaconine, *in* S-10072
- C₄₅H₇₃NO₁₅**
Solanidine 3-*O*-α-L-rhamnopyranosyl-(1→2)-β-D-glucopyranosyl-(1→4)-β-D-glucopyranoside, *in* S-10072
- ▷ α-Solanine, *in* S-10072
Stenantine, *in* S-10072
- C₄₅H₇₅NO₁₆**
β-Soladulcine, *in* S-10071
- C₄₅H₇₅NO₁₇**
Soladulcidine tetroside, *in* S-10071
- C₄₅H₇₆O₁₆**
Semduramicin, S-10045
- C₄₅H₇₆O₁₇**
Antibiotic CP 120509, *in* S-10045
- C₄₅H₈₀O₂₄**
Operculinic acid D, *in* H-10160
- C₄₅H₈₂O₅**
Glisoprenin A, G-10040
- C₄₅H₈₂O₆**
Glisoprenin B, G-10041
- C₄₆H₃₄O₃₀**
Roburin E, R-10039
- C₄₆H₃₄O₃₁**
Putranjivain A, P-10174
- C₄₆H₄₆CIN₇O₁₂**
Cochinmicin II, *in* C-10112
Cochinmicin III, *in* C-10112
- C₄₆H₄₆CIN₇O₁₃**
Cochinmicin IV, *in* C-10112
- C₄₆H₄₇N₇O₁₂**
Cochinmicin I, C-10112
Cochinmicin V, *in* C-10112
- C₄₆H₅₄O₁₁**
1-*O*-α-D-Glucopyranosyl-D-fructose; 2,3,4,5-Di-*O*-isopropylidene, 2',3',4',6'-tetrabenzyl, *in* G-10043
- C₄₆H₅₈N₄O₈**
20'-Deoxyxyleurosidine, *in* L-10049
Isoleurosidine, *in* L-10049
- C₄₆H₅₈N₄O₉**
Roseamine, *in* L-10049
▷ Vinrosidine, L-10049
- C₄₆H₅₈N₄O₁₀**
Leurosidine N^o-oxide, *in* L-10049
- C₄₆H₆₂O₁₈**
Sinapolyerysimoside, *in* T-10177
- C₄₆H₆₇N₇O₁₂**
Cyanoginosin LA, *in* C-10150
- C₄₆H₆₈N₁₀O₁₂**
Cyanoginosin AR, *in* C-10150
- C₄₆H₆₈O₄**
Petroformyne 5, H-10061
- C₄₆H₇₀O₁₈**
Pfaffoside B, *in* P-10091
- C₄₆H₇₂O₁₉**
24(23→22)-Abeo-16,23:18,20-diepoxycholesta-5,24-diene-3,18,23-triol; 18-Me ether 3-*O*-[α-L-rhamnopyranosyl-(1→2)-β-D-glucopyranosyl-(1→2)-β-D-glucopyranoside], *in* A-10002
- C₄₆H₇₄O₈**
Petroformyne B, *in* H-10214
- C₄₆H₇₄O₁₆**
Clemontanoside C, *in* D-10212
Hederagenin; 3-*O*-[α-L-Arabinofuranosyl(1→3)-α-L-rhamnopyranosyl(1→2)-α-L-arabinopyranoside], *in* D-10212
Hederagenin; 3-*O*-[α-L-Arabinopyranosyl(1→3)-α-L-rhamnopyranosyl(1→2)-α-L-arabinopyranoside], *in* D-10212
Prosapogenin CP₆, *in* D-10212
Sapindoside B, *in* D-10212
- C₄₆H₇₄O₁₇**
Cyclicodiscoside, *in* D-10194
Hovenoside I, *in* J-10007
Medicoside C, *in* D-10212
- C₄₆H₈₂NO₇P**
1-*O*-Hexadecyl-2-*O*-docosaheptaenoyl-*sn*-glycero-3-phosphocholine, H-10042
- C₄₆H₈₂O₂₃**
Quamoclitic acid, *in* H-10160
- C₄₆H₈₂O₂₄**
Operculinic acid A, *in* H-10160
- C₄₆H₈₂O₂₅**
Operculinic acid B, *in* H-10160
- C₄₆H₈₄NO₈P**
1-*O*-Octadecanoyl-2-*O*-arachidonoyl-*sn*-glycero-3-phosphocholine, O-10010
- C₄₇H₅₀O₁₄**
Taxchinin C, *in* T-10009
- C₄₇H₅₆N₄O₈**
11-[10-(11-Methoxyvincamedinyl)]vincorine, *in* M-10041
- C₄₇H₅₉NO₆**
Dehydroazasirosterol, D-10028
- C₄₇H₆₀O₇**
Sirosterol, S-10067
- C₄₇H₆₈O₁₅**
Pectenotoxin 3, *in* P-10020
- C₄₇H₆₈O₁₆**
Pectenotoxin 6, *in* P-10020
- C₄₇H₆₉N₇O₁₂**
Cyanoginosin LA_B, *in* C-10150
- C₄₇H₇₀O₁₄**
Pectenotoxin 2, *in* P-10020
- C₄₇H₇₀O₁₅**
Pectenotoxin 1, P-10020
Pectenotoxin 4, *in* P-10020
- C₄₇H₇₂O₁₅**
Pectenotoxin 5, *in* P-10020
- C₄₇H₇₂O₁₈**
Pfaffoside E, *in* P-10091
- C₄₇H₇₂O₁₉**
Cynatratoside D, *in* G-10039
Cynatratoside E, *in* G-10039
- C₄₇H₇₄O₁₇**
Periandrulcin B, *in* D-10207
- C₄₇H₇₄O₁₈**
Cynarasaponin A, *in* H-10242
- C₄₇H₇₄O₁₉**
Cynarasaponin D, *in* D-10261
Cynarasaponin G, *in* D-10259
Cynarasaponin J, *in* D-10211
- C₄₇H₇₆O₁₆**
Sophoradiol; 3-*O*-[α-L-Rhamnopyranosyl-(1→2)-α-L-arabinopyranosyl-(1→2)-β-D-glucuronopyranoside], *in* O-10024
- C₄₇H₇₆O₁₇**
Hoduloside III, *in* J-10007
Saponin C₂, *in* J-10007
Sophoradiol; 3-*O*-[β-D-Xylopyranosyl-(1→2)-β-D-galactopyranosyl-(1→2)-β-D-glucuronopyranoside], *in* O-10024
Zizyminin, *in* J-10007
- C₄₇H₇₆O₁₈**
Hederagenin; 3-*O*-α-L-Arabinopyranoside, [β-D-glucopyranosyl(1→6)-β-D-glucopyranosyl] ester, *in* D-10212
Hoduloside IV, *in* J-10007
- C₄₇H₈₀O₁₇**
Gynosaponin I, *in* D-10011
Notoginsenoside F_e, *in* D-10011
- C₄₇H₈₀O₁₈**
Notoginsenoside R₁, *in* D-10009
- C₄₇H₈₀O₁₉**
Pardarinoside G, *in* F-10038
- C₄₇H₈₀O₂₀**
Pardarinoside F, *in* F-10036
- C₄₇H₈₄O₂₄**
Operculinic acid G, *in* H-10160

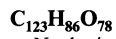
- C₄₇H₉₁NO₁₀
Asteriacerebroside F, A-10141
- C₄₇H₉₃NO₁₀
Astrocerebroside C, in A-10142
- C₄₈H₃₆O₃₀
2,6-Bis-*O*-digalloyl-1,3-di-*O*-galloyl- β -D-glucopyranose, in T-10024
2-*O*-Digalloyl-1,3,4,6-tetra-*O*-galloyl- β -D-glucopyranose, in P-10035
3-*O*-Digalloyl-1,2,4,6-tetra-*O*-galloyl- β -D-glucopyranose, in P-10035
4-*O*-Digalloyl-1,2,3,6-tetra-*O*-galloyl- β -D-glucopyranose, in P-10035
6-*O*-Digalloyl-1,2,3,4-tetra-*O*-galloyl- β -D-glucopyranose, in P-10035
6-*O*-Trigalloyl-1,2,3-tri-*O*-galloyl- β -D-glucopyranose, in T-10024
- C₄₈H₄₀O₃₁
Mallotannin A, M-10008
- C₄₈H₄₆N₄O₁₉
Protorubradirin, in R-10057
- C₄₈H₄₆N₄O₂₀
Rubradirin, R-10057
- C₄₈H₆₂O₂₈
Ulmoidoside A, U-10002
- C₄₈H₆₈N₂O₁₅
Cytorhadin X, C-10175
- C₄₈H₇₂O₁₅
Glochidioside, in O-10027
- C₄₈H₇₂O₁₉
Licoricesaponin F3, in O-10032
- C₄₈H₇₄O₁₉
Papyriose L Iic, in H-10119
- C₄₈H₇₆O₁₇
Hederagenin; 3-*O*-[3-Acetyl- β -D-xylopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside], in D-10212
Mukurozisaponin E₁, in D-10212
- C₄₈H₇₆O₁₈
Periandrulcin C, in D-10208
- C₄₈H₇₆O₁₉
Anatolioside D, in A-10080
3,23-Dihydroxy-12-ursen-28-oic acid; 23-Carboxylic acid, 28-*O*-[α -L-rhamnopyranosyl(1 \rightarrow 4)- β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranoside], in D-10261
Papyriose L IId, in H-10119
- C₄₈H₇₆O₂₀
3,21,22-Trihydroxy-12-oleanen-29-oic acid; 3-*O*-[α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-galactopyranosyl(1 \rightarrow 2)- β -D-glucuronopyranoside], in T-10171
3,22,24-Trihydroxy-12-oleanen-29-oic acid; 3-*O*-[α -L-rhamnopyranosyl(1 \rightarrow 2)- β -D-glucopyranosyl(1 \rightarrow 4)- β -D-glucuronopyranoside], in T-10172
- C₄₈H₇₈O₁₇
Kaikasaponin II, in O-10024
Kaikasaponin III, in O-10024
- C₄₈H₇₈O₁₈
Carnosifloside II, in C-10142
Carnosifloside III, in C-10142
Cussonoside A, in D-10212
Hoduloside V, in J-10007
Scandenoside R₅, in C-10142
- C₄₈H₇₈O₁₉
Soyasaponin A₃, in O-10031
- C₄₈H₈₀O₁₆
Oxysin, in P-10139
Thalictoside A, in C-10165
- C₄₈H₈₀O₁₈
Carnosifloside IV, in C-10142
Carnosifloside V, in C-10142
- Carnosifloside VI, in C-10142
Scandenoside R₆, in C-10142
Scandenoside R₇, in C-10142
- C₄₈H₈₂O₁₇
Gynosaponin J, in D-10011
Gynosaponin K, in D-10011
- C₄₈H₈₂O₁₈
Ginsenoside B₂, in D-10009
Ginsenoside R₃, in D-10011
Gynosaponin S, in D-10011
- C₄₈H₈₂O₁₉
Ginsenoside M_{6a}, in D-10008
- C₄₈H₈₂O₂₀
Pardarinoside D, in F-10038
- C₄₈H₈₂O₂₁
Pardarinoside C, in F-10036
- C₄₈H₈₄O₂
Dihydrolanosteryl oleate, in L-10024
- C₄₉H₃₆O₂₇
Camelliatannin A, in S-10114
Stenophyllanin C, S-10114
- C₄₉H₄₅N₃O₁₄
Cangorin B, in H-10025
- C₄₉H₅₃Cl₂N₅O₁₀
Pepticinnamin F, in P-10074
- C₄₉H₅₄CIN₅O₁₀
Pepticinnamin E, in P-10074
- C₄₉H₅₄CIN₅O₁₁
Pepticinnamin C, in P-10074
- C₄₉H₅₅N₅O₁₀
Pepticinnamin D, in P-10074
- C₄₉H₅₆CIN₅O₁₁
Pepticinnamin A, in P-10074
Pepticinnamin B, in P-10074
- C₄₉H₆₀O₁₈
 α -L-Rhamnopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)-L-rhamnose;
Benzyl glycoside, 3,4-dibenzyl, penta-Ac, in R-10028
 α -L-Rhamnopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 3)-L-rhamnose;
Benzyl glycoside, 2,4-dibenzyl, penta-Ac, in R-10029
- C₄₉H₆₅N₇O₁₃
Cyanoginosin YA, in C-10150
- C₄₉H₇₂O₁₅
Calotroposide G, in T-10066
- C₄₉H₇₄N₁₀O₁₂
Cyanoginosin LR, in C-10150
- C₄₉H₇₄O₁₆
Glochidioside Q, in O-10027
- C₄₉H₇₅NO₁₃
Dide-*O*-methylrapamycin, in R-10007
- C₄₉H₇₅N₁₃O₁₂
Cyanoginosin RR, in C-10150
- C₄₉H₇₆O₇
Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-pentadecanoyl, in H-10076
- C₄₉H₇₆O₁₆
Periplocoside C, in P-10082
- C₄₉H₇₆O₁₉
Papyriose L Iia, in H-10119
- C₄₉H₇₈O₁₅
Cynanchoside C2, in T-10066
Cynanchoside C, in T-10066
- C₄₉H₇₈O₁₉
Hederagenin; 3-*O*-[2-*O*-Acetyl- α -L-arabinopyranoside], [β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl] ester, in D-10212
Papyriose L Iib, in H-10119
- C₄₉H₇₈O₂₀
Peruvianoside A, P-10084
- C₅₀H₆₄O₁₉
Castanopsinin CA, C-10034
- C₅₀H₆₄O₂₉
Ulmoidoside B, in U-10002
- C₅₀H₇₆O₂₁
Licoricesaponin D3, in O-10032
- C₅₀H₇₇NO₁₂
Demethoxyrapamycin, in R-10007
- C₅₀H₇₇NO₁₃
De-*O*-methylrapamycin, in R-10007
- C₅₀H₇₈O₇
Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-hexadecanoyl, in H-10076
- C₅₀H₇₈O₉
20-Hexadecanoylhuratoxin, in H-10076
- C₅₀H₇₈O₁₈
Pfafoside D, in P-10091
- C₅₀H₈₀N₈O₁₅
Pneumocandin B₂, in P-10125
- C₅₀H₈₀N₈O₁₇
Pneumocandin B₀, in P-10125
Pneumocandin C₀, in P-10125
- C₅₀H₈₀O₁₇
Oxylene, in U-10020
- C₅₀H₈₃NO₂₁
 α -Soladulcine, in S-10071
- C₅₁H₆₉N₇O₁₃S
Cyanoginosin YM, in C-10150
- C₅₁H₇₀N₁₀O₁₄
Aedes aegypti Oostatic hormone A, O-10038
- C₅₁H₇₈O₇
34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-pentadecanoyl, in E-10202
- C₅₁H₇₈O₁₆
Dregeoside C, in P-10138
- C₅₁H₇₉NO₁₃
▷ Rapamycin, R-10007
- C₅₁H₈₀O₁₈
Ziziphin, in J-10007
- C₅₁H₈₂FeN₁₃O₁₉
Ferrocin A, in F-10005
- C₅₁H₈₂FeN₁₃O₂₀
Ferrocin B, in F-10005
- C₅₁H₈₂N₈O₁₃
Pneumocandin A₄, in P-10125
- C₅₁H₈₂N₈O₁₄
Pneumocandin A₃, in P-10125
- C₅₁H₈₂N₈O₁₅
Pneumocandin A₂, in P-10125
- C₅₁H₈₂N₈O₁₆
Pneumocandin A₁, in P-10125
- C₅₁H₈₂N₈O₁₇
Pneumocandin A₀, P-10125
- C₅₁H₈₂O₂₁
Hovenoside G, in J-10007
- C₅₁H₈₂O₂₃S
Forbeside F, in T-10135
- C₅₁H₈₃NO₂₀
Hyacinthoside, in S-10072
- C₅₁H₁₀₀O₅
1-*O*-Hexadecyl-2,3-di-*O*-hexadecanoylglycerol, H-10040
- C₅₂H₇₂N₁₀O₁₂
Cyanoginosin FR, in C-10150
- C₅₂H₇₂N₁₀O₁₃
Cyanoginosin YR, in C-10150
- C₅₂H₇₂O₂₃
Sinapoylglucoerysimoside, in T-10177

- C₅₂H₈₀O₇
34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-hexadecanoyl, in E-10202
- C₅₂H₈₂O₇
Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-octadecanoyl, in H-10076
- C₅₂H₈₂O₉
20-Octadecanoylhuratoxin, in H-10076
- C₅₂H₈₄FeN₁₃O₁₉
Ferrocin C, in F-10005
Ferrocin D, in F-10005
- C₅₂H₈₄O₂₀
Songaroside B', in D-10212
- C₅₂H₈₄O₂₁
Jujuboside B, in J-10007
Sapindoside C, in D-10212
- C₅₂H₈₄O₂₂
Akebiasaponin E, in D-10212
Medicoside I, in D-10212
Polycarponoside A, in O-10022
- C₅₂H₈₆O₁₅
Didemnaketal B, D-10063
- C₅₂H₈₈O₂₁
Gynosaponin Q, in D-10011
- C₅₂H₉₂O₃₂
Operculinic acid, in D-10176
- C₅₃H₇₈O₁₁
Gnidilatin 20-palmitate, in G-10107
- C₅₃H₈₄O₂₃
17,23-Epoxy-3,29-dihydroxylanost-9-en-26,23-olide; 3-*O*-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], in E-10068
- C₅₃H₈₄O₂₄
17,23-Epoxy-3,24,29-trihydroxylanost-9-en-26,23-olide; 3-*O*-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], in E-10162
- C₅₃H₈₆O₂₂
Cauloside D, in D-10212
Fatsiaside D, in D-10212
- C₅₃H₈₆O₂₃
13,28-Epoxy-3,16-dihydroxy-30-oleanal; 29-Carboxylic acid, 3-*O*-[α -L-rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 2)-[β -D-glucopyranosyl-(1 \rightarrow 4)]- α -L-arabinopyranoside], in E-10069
- C₅₃H₈₆O₂₄
Soyasaponin A₂, in O-10031
- C₅₃H₉₀O₂₁
Gynosaponin R, in D-10011
- C₅₃H₉₀O₂₂
▷ Ginsenoside R_{b2}, in D-10011
▷ Ginsenoside R_c, in D-10011
- C₅₃H₉₀O₂₃
Ginsenoside R_{b3}, in D-10009
- C₅₄H₈₄O₇
34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-octadecanoyl, in E-10202
- C₅₄H₈₆O₇
Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-eicosanoyl, in H-10076
- C₅₄H₈₆O₉
20-Eicosanoylhuratoxin, in H-10076
- C₅₄H₈₈O₂₁
Verbascosaponin, in E-10138
- C₅₄H₈₈O₂₃
Paridiformoside, in E-10069
- C₅₄H₈₈O₂₄
Macrophyllicin, in O-10028
- C₅₄H₉₀O₂₁
Thalictoside C, in C-10165
- C₅₄H₉₀O₂₃
Orizabin II, O-10046
Orizabin IV, O-10048
- C₅₄H₉₂O₂₁
Gynosaponin G, in D-10011
- C₅₄H₉₂O₂₂
Gynosaponin E, in D-10011
Gynosaponin F, in D-10011
- C₅₄H₉₂O₂₃
▷ Ginsenoside R_{b1}, in D-10011
Gynosaponin P, in D-10010
- C₅₄H₉₂O₂₄
Siamenoside I, in C-10143
- C₅₅H₃₂O₃₄
Flosin B, in L-10020
Lagerstroemin†, L-10020
- C₅₅H₃₄O₃₁
Psiguavin, P-10164
- C₅₅H₃₆O₃₀
Mongolicain A, M-10086
Mongolicain B, M-10087
- C₅₅H₃₆O₃₁
Psidin A, in M-10086
Psidin B, in M-10087
- C₅₅H₃₈O₃₁
Psidin C, P-10163
- C₅₅H₄₀O₃₄
2,3-Di-*O*-digalloyl-1,4,6-tri-*O*-galloyl- β -D-glucopyranose, in P-10035
2,4-Di-*O*-digalloyl-1,3,6-tri-*O*-galloyl- β -D-glucopyranose, in P-10035
2,6-Di-*O*-digalloyl-1,3,4-tri-*O*-galloyl- β -D-glucopyranose, in P-10035
3,4-Di-*O*-digalloyl-1,2,6-tri-*O*-galloyl- β -D-glucopyranose, in P-10035
3,6-Di-*O*-digalloyl-1,2,4-tri-*O*-galloyl- β -D-glucopyranose, in P-10035
4,6-Di-*O*-digalloyl-1,2,3-tri-*O*-galloyl- β -D-glucopyranose, in P-10035
3-*O*-Trigalloyl-1,2,4,6-tetra-*O*-galloyl- β -D-glucopyranose, in P-10035
6-*O*-Trigalloyl-1,2,3,4-tetra-*O*-galloyl- β -D-glucopyranose, in P-10035
- C₅₅H₇₀MgN₄O₅
4-Vinyl-4-desethylchlorophyll a, in C-10084
- C₅₅H₇₁ClMgN₄O₆
Chlorophyll RCI, in C-10084
- C₅₅H₇₂MgN₄O₅
Chlorophyll a, C-10084
Chlorophyll a', in C-10084
- C₅₅H₇₂MgN₄O₆
13²-Hydroxychlorophyll a, in C-10084
- C₅₅H₉₂O₂₂
Verbascosaponin A, in O-10029
- C₅₅H₉₂O₂₃
13,28-Epoxy-3,16-dihydroxy-30-oleanal; 30-Di-Me acetal, 3-*O*-[α -L-Rhamnopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 2)-[β -D-glucopyranosyl-(1 \rightarrow 4)]- α -L-arabinopyranoside], in E-10069
Ginsenoside R_{s1}, in D-10011
Ginsenoside R_{s2}, in D-10011
Orizabin I, O-10045
- C₅₅H₉₂O₂₄
Orizabin III, O-10047
- C₅₆H₃₈O₃₂
Eugenigradin A, E-10225
Guajavin B, G-10137
- C₅₆H₄₀O₃₁
Stenophyllanin A, in S-10114
- C₅₆H₄₀O₃₂
Guajavin A, in S-10114
- C₅₆H₈₂O₂
Calvasterone, C-10016
- C₅₆H₈₂O₂₂
Periandrulcin A, in T-10174
- C₅₆H₈₄O₁₈
Calotroposide F, in T-10066
- C₅₆H₈₄O₁₉
Calotroposide E, in P-10059
- C₅₆H₈₈O₇
34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-eicosanoyl, in E-10202
- C₅₆H₈₈O₁₉
Periplocoside B, in P-10082
- C₅₆H₉₀O₇
Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-docosanoyl, in H-10076
- C₅₆H₉₀O₉
20-Docosanoylhuratoxin, in H-10076
- C₅₆H₉₂O₂₈S
Forbeside B, in T-10135
Thornasteroside A, in T-10135
- C₅₇H₈₆O₆
Glycerol tri-9,11,13,15-octadecatetraenoate, G-10102
- C₅₇H₈₈O₂₅
Acetylsoyasaponin A₆, in O-10031
- C₅₇H₉₂O₂₆
Hovenoside D, in J-10007
- C₅₇H₉₂O₂₇S
Forbeside C, in T-10135
- C₅₇H₉₃NO₂₅
Neohyacinthoside, in S-10072
- C₅₈H₉₀O₂₆
Acetylsoyasaponin A₅, in O-10031
- C₅₈H₉₂O₇
34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-docosanoyl, in E-10202
- C₅₈H₉₄O₇
Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-tetracosanoyl, in H-10076
- C₅₈H₉₄O₉
20-Tetracosanoylhuratoxin, in H-10076
- C₅₈H₉₄O₂₆
Jujuboside A, in J-10007
Mukurozisaponin Y₁, in D-10212
Mukurozisaponin Y₂, in D-10212
Vitalboside F, in D-10212
- C₅₈H₉₈O₂₆
Ginsenoside R_{a1}, in D-10011
Ginsenoside R_{a2}, in D-10011
Notoginsenoside F_c, in D-10011
- C₅₉H₆₈O₁₈
 β -D-Mannopyranosyl-(1 \rightarrow 4)- α -D-galactopyranosyl-(1 \rightarrow 4)-L-rhamnose; Benzyl glycoside, 2',2'',3'',4''-tetrabenzyl, 3',6',6''-tri-Ac, in M-10011
- C₅₉H₇₆O₃₅
Jasamplexoside C, J-10003
- C₅₉H₉₄O₂₈
17,23-Epoxy-3,29-dihydroxylanost-9-en-26,23-olide; 3-*O*-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)-[β -D-galactopyranosyl-(1 \rightarrow 3)]- β -D-glucopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], in E-10068
- C₅₉H₉₆O₂₂
Hederacaucoside D, in D-10212
- C₅₉H₉₆O₂₉
Soyasaponin A₁, in O-10031

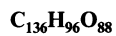
- C₅₉H₁₀₀O₂₇
Ginsenoside Ra₃, *in* D-10011
Notoginsenoside F_a, *in* D-10011
- C₆₀H₈₄O₁₆
Gambiertoxin 4b, *in* C-10097
- C₆₀H₈₆O₁₈
CTX 3, *in* C-10097
- C₆₀H₈₆O₁₉
Ciguatoxin, C-10097
- C₆₀H₉₂O₂₇
Acetylsoyasaponin A₃, *in* O-10031
- C₆₀H₉₆O₇
34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-tetracosanoyl, *in* E-10202
- C₆₀H₉₇N₁₁O₁₄
Laxaphycin A, L-10034
- C₆₀H₉₈O₇
Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-hexacosanoyl, *in* H-10076
- C₆₀H₉₈O₉
20-Hexacosanoylhuratoxin, *in* H-10076
- C₆₀H₁₀₂O₂₆
Gynosaponin B, *in* D-10011
- C₆₀H₁₀₂O₂₇
Gynosaponin A, *in* D-10011
Gynosaponin O, *in* D-10010
- C₆₀H₁₀₂O₂₈
Ginsenoside RA₀, *in* D-10011
Gynosaponin T, *in* D-10010
- C₆₁H₉₄O₂₈
Acetylsoyasaponin A₂, *in* O-10031
- C₆₁H₁₀₀O₂₃
Periplocoside J, *in* P-10140
- C₆₁H₁₂₂O₂
Triacentaonic acid; Hentriacontyl ester, *in* T-10100
- C₆₂H₄₄O₃₈
2,3,6-Tri-*O*-digalloyl-1,4-di-*O*-galloyl-β-D-glucopyranose, *in* P-10035
- C₆₂H₇₂O₁₈
β-D-Mannopyranosyl-(1→4)-α-D-galactopyranosyl-(1→4)-L-rhamnose; Benzyl glycoside, 2,3-*O*-isopropylidene, 2',2'',3'',4''-tetrabenzyl, 3',6',6''-tri-Ac, *in* M-10011
- C₆₂H₉₂N₁₈O₂₇
Pyoverdin Pf12-IA, *in* P-10176
- C₆₂H₉₃N₁₉O₂₆
Pyoverdin Pf12-IIA, *in* P-10176
- C₆₂H₁₀₀O₇
34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-hexacosanoyl, *in* E-10202
- C₆₂H₁₀₀O₂₃
Sibiricoside D, *in* T-10066
- C₆₂H₁₀₁N₁₁O₁₄
Laxaphycin E, L-10036
- C₆₂H₁₀₂O₃₁S
Forbeside D, *in* C-10089
- C₆₂H₁₀₂O₃₃S
Forbeside A, *in* T-10135
- C₆₃H₉₂N₁₈O₂₈
Pyoverdin Pf12-IB, *in* P-10176
- C₆₃H₉₅N₁₉O₂₇
Pyoverdin Pf12-IIB, *in* P-10176
- C₆₃H₉₆O₂₁
Calotroposide A, *in* T-10066
Calotroposide D, *in* T-10066
- C₆₃H₉₆O₂₂
Calotroposide B, *in* P-10059
Calotroposide C, *in* P-10059
- C₆₃H₁₀₄O₂₃
Periplocoside F, *in* P-10140
- C₆₃H₁₀₆O₃₅
Sativoside B1, *in* F-10037
- C₆₄H₈₂O₃₇
Ulmoidoside C, U-10003
- C₆₄H₁₀₀O₃₁
Acetylsoyasaponin A₄, *in* O-10031
- C₆₄H₁₀₄O₃₀
Huzhangoside D, *in* D-10212
Sapindoside D, *in* D-10212
- C₆₅H₁₀₄O₃₁
Phaseoloside D, *in* O-10021
- C₆₅H₁₀₄O₃₄
17,23-Epoxy-3,24,29-trihydroxylanost-9-en-26,23-olide; 3-*O*-[β-D-Glucopyranosyl-(1→2)-β-D-galactopyranosyl-(1→3)-[α-L-rhamnopyranosyl-(1→2)]-β-D-glucopyranosyl-(1→2)-α-L-arabinopyranosyl-(1→6)-β-D-glucopyranoside], *in* E-10162
- C₆₅H₁₀₆O₂₄
Periplocoside E, *in* P-10140
- C₆₅H₁₁₄N₁₄O₁₉
Laxaphycin B, L-10035
- C₆₆H₆₈O₂₀
Quartromicin D₁, *in* Q-10002
- C₆₆H₇₀O₂₀
Quartromicin D₂, *in* Q-10002
- C₆₆H₇₂O₂₀
Quartromicin D₃, Q-10002
- C₆₆H₈₄O₃₈
Ulmoidoside D, *in* U-10003
- C₆₆H₁₁₆O₂₅
Operculin II, O-10040
- C₆₇H₁₀₄O₃₃
Acetylsoyasaponin A₁, *in* O-10031
- C₆₇H₁₀₇NO₁₈
▶ Lienomycin, L-10050
- C₆₈H₄₈O₄₄
Roshenin E, R-10049
- C₆₈H₁₁₀O₂₈
Sibiricoside E, *in* T-10066
- C₆₈H₁₂₀O₂₅
Operculin VII, O-10042
Operculin VIII, O-10043
- C₆₉H₈₆Br₂N₁₆O₂₂
Theonellamide F, T-10084
- C₇₀H₁₁₂O₂₆
Periplocoside D, *in* P-10082
- C₇₀H₁₂₄O₂₅
Operculin I, O-10039
Operculin V, O-10041
- C₇₁H₁₂₆N₂O₂₁
Dethymicin, D-10042
- C₇₂H₁₁₄O₂₇
Periplocoside A, *in* P-10082
- C₇₃H₁₂₆O₂₇S
Amphidinol, A-10076
- C₇₆H₁₂₄O₃₉
Songaroside B, *in* D-10212
- C₇₇H₁₂₄O₄₁
Phaseoloside E, *in* O-10021
- C₇₈H₈₈O₃₀
Quartromicin A₁, *in* Q-10002
- C₇₈H₉₀O₃₀
Quartromicin A₂, *in* Q-10002
- C₇₈H₉₂O₃₀
Quartromicin A₃, *in* Q-10002
- C₈₀H₁₃₀O₄₂
Sapindoside E, *in* D-10212
- C₈₂H₅₀O₅₁
Castamollinin, C-10033
Roburin A, *in* R-10038
Roburin D, *in* R-10038
- C₈₂H₅₂O₅₄
Euphorbin E, E-10231
- C₈₂H₅₈O₅₃
Bischofianin, B-10034
Euphorbin A, E-10230
- C₈₃H₆₂O₅₀
Camellianin D, C-10017
- C₈₃H₁₅₀O₃₃
Cycloviracin B₂, *in* C-10172
- C₈₃H₁₅₂O₃₃
Cycloviracin B₁, C-10172
- C₈₅H₁₄₀N₁₈O₂₂
Zervamicin ZL, Z-10003
- C₈₇H₅₈O₅₅
Roburin B, R-10038
Roburin C, *in* R-10038
- C₈₈H₁₃₉NO₄₂
Entadasaponin II, E-10022
- C₈₈H₁₃₉NO₄₃
Entadasaponin III, *in* E-10022
- C₈₈H₁₃₉NO₄₄
Entadasaponin IV, *in* E-10022
- C₈₉H₅₈O₅₇
Roshenin A, R-10047
- C₈₉H₆₀O₅₇
Nobotanin H, N-10035
- C₈₉H₁₄₂O₄₁
Gymnocladussaponin D, G-10143
- C₉₀H₆₂O₅₇
Malabathrin D, *in* N-10035
- C₉₀H₁₄₄O₄₄
Gymnocladussaponin E, *in* G-10146
- C₉₄H₁₄₈O₄₁
Gymnocladussaponin D₁, G-10144
- C₉₅H₇₀O₆₂
Cornusiin F, *in* C-10127
- C₉₆H₁₅₄O₅₀
Gymnocladussaponin F₂, G-10146
- C₉₇H₆₂O₅₆
Anogeissinin, A-10094
Anogeissusin A, A-10095
- C₉₇H₆₂O₅₇
Anogeissusin B, *in* A-10095
- C₉₉H₁₅₆O₄₉
Gymnocladussaponin F₁, G-10145
- C₁₀₀H₁₆₀O₅₃
Gymnocladussaponin G, G-10147
- C₁₀₂H₇₂O₆₆
Oenothetin A, *in* W-10006
- C₁₀₂H₇₄O₆₆
Cornusiin C, C-10127
- C₁₀₉H₇₄O₇₀
Davuriciin T₁, D-10023
- C₁₀₉H₇₆O₇₀
Woodfordin D, W-10006
- C₁₁₆H₈₀O₇₄
Nobotanin C, *in* N-10034
- C₁₁₆H₈₂O₇₄
Prostratin B, P-10155
- C₁₂₃H₈₀O₇₈
Lambertianin A, L-10022
- C₁₂₃H₈₂O₇₈
Nobotanin J, N-10036



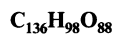
Calamanin C, C-10012
Nobotanin E, N-10034



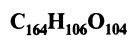
Nupharin F, N-10053



Woodfordin F, W-10007



Trapanin B, T-10099



Sanguiin H11, S-10013



Nobotanin K, N-10037



▷ Phosphine, P-10101



▷ Diphosphine, D-10297



▷ Nitrogen oxide (NO), N-10029



Nitrogen oxide (N_2O_2), *in* N-10029

Chemical Abstracts Service Registry Number Index

This index becomes invalid after publication of the Second Supplement.

This index lists in numerical order all Chemical Abstracts Service (CAS) registry numbers contained in the First Supplement (Volume 8 of DNP).

Where a CAS registry number applies to a derivative or to a stereoisomer or other variant embedded within the entry, the Dictionary number is preceded by the word '*in*'.

The symbol \triangleright preceding an index term indicates that the Dictionary Entry contains information on toxic or hazardous properties.

The symbol † refers to a name which is known to be duplicated.

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51-61-6 ▶ Dopamine, D-10305
51-67-2 ▶ Tyramine, T-10212
59-89-2 ▶ Morpholine; *N*-Nitroso, in M-10091
60-19-5 Tyramine; B,HCl, in T-10212
62-31-7 ▶ Dopamine hydrochloride, in D-10305
63-29-6 Glucuro lactone, G-10088
66-28-4 ▶ Strophanthidin, in T-10177
67-68-5 ▶ Dimethyl sulfoxide, D-10286
68-12-2 ▶ Dimethylformamide, D-10273
70-26-8 Ornithine; (*S*)-form, in O-10049
75-87-6 ▶ Trichloroacetaldehyde, T-10109
76-66-4 Rhyncophylline; (–)-form, in R-10031
76-78-8 Quassin, Q-10003
77-42-9 β -Santalol, in S-10014
77-52-1 Ursolic acid, in H-10242
78-70-6 ▶ Linalool, D-10279
78-79-5 ▶ 2-Methyl-1,3-butadiene, M-10047
79-62-9 Dihydro lanosterol, in L-10024
80-78-4 Solanidine, S-10072
82-29-1 1,2,6-Trihydroxyanthraquinone, T-10131
88-03-9 2-Methyl-1,3,5-benzenetriol, M-10043
88-14-2 ▶ 2-Furancarboxylic acid, F-10028
89-83-8 ▶ Thymol, I-10048
90-24-4 Xanthoxylin, in T-10129
90-33-5 ▶ Hymecromone, H-10177
91-52-1 2,4-Dimethoxybenzoic acid, D-10265
92-53-5 ▶ Morpholine; *N*-Ph, in M-10091
95-01-2 2,4-Dihydroxybenzaldehyde, D-10109
98-55-5 ▶ α -Terpineol, M-10031
99-10-5 ▶ 3,5-Dihydroxybenzoic acid, D-10110
100-74-3 ▶ Morpholine; *N*-Et, in M-10091
103-95-7 3-(4-Isopropylphenyl)-2-methylpropanal, I-10049
109-02-4 ▶ *N*-Methylmorpholine, in M-10091
109-75-1 ▶ 3-Butenenitrile, in B-10052
110-60-1 ▶ 1,4-Butanediamine, B-10051
110-91-8 ▶ Morpholine; *N*-10091
111-16-0 ▶ Heptanedioic acid, H-10027
111-28-4 ▶ 2,4-Hexadien-1-ol, H-10046
111-50-2 Hexanedioic acid; Dichloride, in H-10060
111-69-3 ▶ 1,4-Dicyanobutane, in H-10060
115-95-7 Linalool acetate, in D-10279
118-34-3 Syringin, in S-10065
123-99-9 ▶ Azelaic acid, N-10040
124-04-9 ▶ Hexanedioic acid, H-10060
126-90-9 Linalool; (*S*)-form, in D-10279
126-91-0 Linalool; (*R*)-form, in D-10279
127-17-3 ▶ Pyruvic acid, P-10180
127-30-0 ▶ Lasiocarpine *N*-oxide, in L-10032
134-55-4 Acetylsalol, in A-10014
135-77-3 1,2,4-Trimethoxybenzene, in B-10013
138-08-9 Phosphoenolpyruvic acid, P-10102
142-79-0 Heptanedioic acid; Dichloride, in H-10027
148-53-8 ▶ 2-Hydroxy-3-methoxybenzaldehyde, in D-10108
152-91-0 Dehydrologanin, in L-10059
156-38-7 ▶ 4-Hydroxyphenylacetic acid, H-10215
289-16-7 1,2,4-Trithiolane, T-10204
303-34-4 ▶ Lasiocarpine, L-10032
303-45-7 ▶ Gossypol, G-10113
306-23-0 ▶ 2-Hydroxy-3-(4-hydroxyphenyl)propanoic acid, H-10167
333-93-7 ▶ 1,4-Butanediamine; B₂HCl, in B-10051
363-24-6 ▶ Dinoprostone, in D-10223
370-98-9 ▶ *N*-Methyltyramine, in T-10212
436-77-1 12-*O*-Methylatherospermoline, in F-10001
437-64-9 Genkwanin, D-10195
456-12-2 Aegeline, A-10027
458-35-5 Coniferyl alcohol, in D-10243
465-90-7 ▶ Hellebrigenin, in T-10175
465-99-6 Hederagenin, in D-10212
466-01-3 Hederagenic acid, in D-10212
466-09-1 ▶ Uzarginin, U-10020
470-41-7 3-Thujopsen-15-al, in T-10087
472-51-5 β -Chaconine, in S-10072
473-11-0 Eudesmane; α -form, in E-10215
474-00-0 Eburnonin; (+)-form, in E-10002
475-67-2 ▶ Isocorydine; (*S*)-form, in I-10028
477-20-3 Homolycorine, H-10069
477-35-0 Thalichuberine, T-10082
477-57-6 ▶ Isotetrandrane, I-10052
477-83-8 Damnacanthol, in D-10180
478-08-0 ▶ Lucidin†, D-10180
478-29-5 Morindone, T-10160
479-06-1 Isoeugenitol, D-10134
479-14-1 Convolvulanic acid B, in C-10124
479-25-4 Haematommic acid, F-10015
479-61-8 Chlorophyll a, C-10084
480-09-1 Rheinanthrone, D-10094
480-12-6 Eugenitin, in D-10133
480-18-2 ▶ Taxifolin, P-10050
480-25-1 Conglomerone, in M-10077
480-66-0 2',4',6'-Trihydroxyacetophenone, T-10129
482-01-9 Homoferreirin, in T-10055
482-38-2 ▶ Kaempferitrin, in A-10030
482-39-3 Afzelin, A-10030
483-34-1 ▶ Isocorypalmine; (*S*)-form, in I-10029
484-76-4 Okanin, P-10040
488-00-6 ▶ Heleurine, H-10007
488-28-8 Rhamnitol; *L*-form, in R-10020
488-81-3 ▶ Ribitol, R-10032
489-39-4 (+)-Aromadendrene, in A-10125
491-48-5 Eugenitol, D-10133
491-70-3 ▶ Luteolin, T-10052
495-46-5 Ornithuric acid, in O-10049
497-72-3 Methymycin, M-10079
498-16-8 ▶ Lavandulol; (*R*)-form, in L-10033
502-57-8 Anacycline, A-10079
502-75-0 11-Hydroxyhexadecanoic acid, H-10160
505-23-7 1,3-Dithiane, D-10298
505-48-6 Octanedioic acid, O-10014
506-12-7 ▶ Heptadecanoic acid, H-10019
506-32-1 ▶ Arachidonic acid, in E-10009
506-50-3 Triacontanoic acid, T-10100
507-79-9 ▶ Tazettine; (+)-form, in T-10014
508-01-0 Soyasapogenol A, in O-10031
508-75-8 ▶ Convallatoxin, in T-10177
508-76-9 ▶ Corchoroside A, in T-10177
508-77-0 ▶ Cymarin, in T-10177
508-79-2 Hellebrigenol, in T-10175
509-28-4 Delpheline, D-10033
509-37-5 Sandwicine, in A-10035
509-80-8 Mitraphylline, M-10082
511-36-4 γ -Chaconine, in S-10072
511-37-5 γ -Solanine, in S-10072
511-77-3 Siarasinolic acid, in D-10210
511-81-9 Machaeric acid, in D-10211
511-98-8 Soladulcicine, S-10071
514-39-6 ▶ Periplogenin, in T-10134
514-47-6 Euphol, in E-10228
515-83-3 2,2,2-Trichloro-1-ethoxyethanol, in T-10109
517-66-8 Dicentrine; (*S*)-form, in D-10058
519-18-6 Isoeugenitin, in D-10134
520-32-1 Tricin, T-10140
523-59-1 Seselin, S-10050
524-17-4 ▶ Dauricine, D-10022
528-79-0 Thymol; Ac, in I-10048
529-68-0 2-Acetoxybenzoic acid; Et ester, in A-10014
529-80-6 Multiflorine, M-10092
531-29-3 Coniferin, in D-10243
531-88-4 5,6-Dimethoxyphthalide, in D-10182
532-65-0 *ar*-Turmerone; (*R*)-form, in B-10029
533-73-3 ▶ 1,2,4-Benzenetriol, B-10013
534-32-7 Methynolide, in M-10079
535-96-6 Marein, in P-10040
537-33-7 Sinapyl alcohol, S-10065
540-05-6 Phytofluene, H-10050
544-57-0 Cerebronic acid, H-10229
544-85-4 ▶ Dotriacontane, D-10306
545-77-7 12-Epirocogenin, in S-10099
546-53-2 Hinokiic acid, T-10087
549-06-4 ▶ Stictic acid, S-10118
550-43-6 Angustifoline†, A-10087
551-58-6 ▶ Supinine, in A-10052
552-52-3 Glucogenkwanin, in D-10195
560-53-2 ▶ *k*-Strophanthin- β , in T-10177
568-78-5 Juzunol, in T-10152
571-67-5 ▶ Norstictic acid, in S-10118
580-02-9 2-Acetoxybenzoic acid; Me ester, in A-10014
586-38-9 ▶ 3-Methoxybenzoic acid, M-10038
600-22-6 Pyruvic acid; Me ester, in P-10180
609-38-1 2-Furancarboxamide, in F-10028
611-13-2 ▶ 2-Furancarboxylic acid; Me ester, in F-10028
613-03-6 1,2,4-Benzenetriol; Tri-Ac, in B-10013
613-45-6 2,4-Dimethoxybenzaldehyde, in D-10109
613-89-8 ▶ 2-Aminoacetophenone, A-10055
614-99-3 ▶ 2-Furancarboxylic acid; Et ester, in F-10028
615-08-7 2-Furancarboxylic acid; Anhydride, in F-10028
616-03-5 5-Methyl-2,4-imidazolidinedione, M-10065
617-35-6 Pyruvic acid; Et ester, in P-10180
617-90-3 2-Cyanofuran, in F-10028
625-04-7 4-Amino-4-methyl-2-pentanone, A-10071
625-38-7 3-Butenoic acid, B-10052
627-91-8 Hexanedioic acid; Me ester, in H-10060
627-93-0 ▶ Hexanedioic acid; Di-Me ester, in H-10060
628-94-4 ▶ Hexanediamide, in H-10060
629-40-3 Suberonitrile, in O-10014
629-60-7 Tridecanoic acid; Nitrile, in T-10119
629-83-4 Triacontanoic acid; Me ester, in T-10100
630-08-0 ▶ Carbon monoxide, C-10022
630-64-8 ▶ Helveticoside, in T-10177
630-65-9 Erychroside, in T-10177
631-57-2 Acetyl cyanide, in P-10180
631-66-3 Pyruvic acid; Amide, in P-10180
633-16-9 Echiumine, E-10004
638-00-6 ▶ 2,4-Dimethylthiophene, D-10287
638-53-9 ▶ Tridecanoic acid, T-10119
645-02-3 Zierin, in H-10166
646-20-8 ▶ 1,5-Dicyanopentane, in H-10027
663-97-8 Allouzarigenin, in U-10020
673-22-3 2-Hydroxy-4-methoxybenzaldehyde, in D-10109
713-95-1 6-Heptyltetrahydro-2*H*-pyran-2-one, H-10031
728-61-0 Linderlactone, in E-10089
765-04-8 1,11-Undecanediol, U-10007

- 822-36-6 ▶ 4(5)-Methylimidazole, M-10064
824-46-4 2-Methoxy-1,4-benzenediol, *in* B-10013
832-58-6 2',4',6'-Trimethoxyacetophenone, *in* T-10129
867-54-9 1,1-Dibromo-2-propanone, D-10057
898-84-0 11-Hydroxyandrosta-1,4-diene-3,17-dione; 11-*β*-form, *in* H-10083
912-27-6 Vincamedine, *in* V-10023
926-61-4 3-Oxopropanoic acid, O-10061
930-62-1 2,4-Dimethyl-1*H*-imidazole, D-10276
937-27-9 1*H*-Pyrrole-2,5-dicarboxylic acid, P-10179
939-57-1 3-(2-Methylphenyl)-2-propenoic acid; (*E*)-form, *in* M-10068
959-33-1 4-Methoxychalcone, *in* H-10218
989-30-0 3-Epiursolic acid, *in* H-10242
989-72-0 Ursolic acid; 3-Ketone, Me ester, *in* H-10242
1064-16-0 Periplorhamnoside, *in* T-10134
1072-48-6 5(4*H*)-Isoxazolone, I-10058
1076-56-8 Thymol methyl ether, *in* I-10048
1106-35-0 4-Methylergost-7-en-3-ol, *see* M-10056
1110-02-7 Cucurbitacin L, *in* C-10140
1110-58-3 Gossypol; (±)-form, 6,6'-Di-Me ether, *in* G-10113
1114-16-5 Rhamnitol, R-10020
1116-45-6 1-*O*-Hexadecyl-2,3-di-*O*-hexadecanoylglycerol, H-10040
1117-99-3 ▶ Trichloroacetaldehyde; Oxime, *in* T-10109
1156-07-6 Communal, *in* L-10010
1164-45-0 Gibberellin A₂₂, G-10028
1173-42-8 4,5-Demethylene-7-deoxypodophyllotoxin, D-10035
1175-06-0 3-Hydroxycholestan-6-one; (3*β*,5*α*)-form, *in* H-10098
1192-07-0 3-Isoxazolidinone, I-10057
1193-18-6 3-Methyl-2-cyclohexen-1-one, M-10050
1199-64-0 1*H*-Pyrrole-2,5-dicarboxylic acid; Mono-Me ester, *in* P-10179
1202-66-0 *N*-Acetyltyramine, *in* T-10212
1204-06-4 ▶ 3-(1*H*-Indol-3-yl)-2-propenoic acid, I-10010
1231-35-2 Elliotinoic acid, *in* L-10010
1255-02-3 Carpanaubine, C-10021
1256-83-3 3-Hydroxycholestan-6-one; (3*β*,5*α*)-form, Ac, *in* H-10098
1263-80-5 Obaberine, O-10001
1398-78-3 ▶ Elaterinide, *in* C-10140
1399-92-4 Isocalycanthine, I-10024
1400-38-0 Morindone 6-*β*-rutinoside, *in* T-10160
1404-62-2 ▶ Simplexin, *in* G-10107
1445-73-4 4-Piperidinone; *N*-Me, *in* P-10119
1453-93-6 Protopanaxatriol, *in* D-10009
1468-28-6 ▶ Morpholine; *N*-Benzoyl, *in* M-10091
1470-91-3 3-Butenoic acid; Chloride, *in* B-10052
1521-95-5 2,4-Dimethoxybenzoic acid, *see* D-10265
1527-89-5 1-Cyano-3-methoxybenzene, *in* M-10038
1578-16-1 3-Bromo-1,1-dichloro-2-propanone, B-10045
1578-17-2 1-Bromo-1,3-dichloro-2-propanone, B-10044
1578-18-3 1,1-Dibromo-3-chloro-2-propanone, D-10052
1617-18-1 3-Butenoic acid; Et ester, *in* B-10052
1619-13-2 Preheminthosporol, P-10142
1675-69-0 1,7-Dicyanoheptane, *in* N-10040
1689-36-7 2,4-Dimethyl-1*H*-imidazole, *see* D-10276
1693-80-7 Acaciabiuronic acid, *see* A-10011
1696-20-4 ▶ Morpholine; *N*-Ac, *in* M-10091
1708-29-8 2,5-Dihydrofuran, D-10095
1711-05-3 3-Methoxybenzoic acid; Chloride, *in* M-10038
1724-19-2 Dihydrolanosterol; Ac, *in* L-10024
1731-88-0 Tridecanoic acid; Me ester, *in* T-10119
1731-92-6 Heptadecanoic acid; Me ester, *in* H-10019
1732-08-7 Heptanedioic acid; Di-Me ester, *in* H-10027
1732-09-8 Octanedioic acid; Di-Me ester, *in* O-10014
1732-10-1 Azelaic acid; Di-Me ester, *in* N-10040
1757-29-5 1*H*-Pyrrole-2,5-dicarboxylic acid; Di-Me ester, *in* P-10179
1760-48-1 Vinylacetic anhydride, *in* B-10052
1811-33-2 *β*-D-Glucopyranosyl(1→3)-2-amino-2-deoxy-D-galactose, G-10042
1845-51-8 Lavandulol; (±)-form, *in* L-10033
1846-33-9 2-Aminoacetophenone; *N*-Ac, *in* A-10055
1852-04-6 Undecanedioic acid, U-10006
1897-26-3 Akuammiline, A-10036
1897-30-9 Rhazimol, *in* A-10036
1916-63-8 3*H*-Phenoxazin-3-one, P-10097
1928-98-9 3-Oxopropanoic acid; *Oxo*-form, Me ester, 2,4-dinitrophenylhydrazone, *in* O-10061
2034-74-4 3-Hydroxystigmast-5-en-7-one, *in* S-10121
2050-23-9 ▶ Octanedioic acid; Di-Et ester, *in* O-10014
2102-75-2 3-Cadalenol, C-10002
2150-41-6 2,4-Dimethoxybenzoic acid; Me ester, *in* D-10265
2150-44-9 3,5-Dihydroxybenzoic acid; Me ester, *in* D-10110
2202-17-7 *O*-Methylauricene, *in* D-10022
2211-14-5 2-Isonitrosopropanoic acid, *in* P-10180
2222-07-3 ▶ Cucurbitacin I, C-10140
2295-58-1 ▶ Flopropione, T-10182
2326-89-8 Drimenin, D-10310
2373-76-4 3-(2-Methylphenyl)-2-propenoic acid, M-10068
2380-78-1 4-Hydroxy-3-methoxybenzeneethanol, *in* D-10235
2387-71-5 Argininosuccinic acid, A-10116
2433-95-6 Cerebronic acid, *see* H-10229
2438-12-2 *α*-Terpineol; (±)-form, *in* M-10031
2490-14-4 4-Methylhexadecanoic acid, *see* M-10061
2492-09-3 ▶ Sarracine, S-10023
2503-13-1 Enniatin A, E-10016
2506-11-8 Emodin bianthrone, E-10014
2506-26-5 Vincamajine, V-10023
2555-28-4 7-Methoxy-4-methyl-2*H*-1-benzopyran-4-one, *in* H-10177
2566-89-4 Arachidonic acid; Me ester, *in* E-10009
2571-62-2 Tinophyllone, *in* E-10101
2572-03-4 Melaleucic acid, *in* D-10194
2580-88-3 Vincanorine, *in* E-10002
2589-47-1 ▶ Prajmalium bitartrate, *in* A-10035
2607-95-6 3-Methyl-2-cyclohexen-1-one; Oxime, *in* M-10050
2624-24-0 *β*-Amino-2-deoxy-*β*-D-glucopyranosyl-(1→4)-2-amino-2-deoxy-*β*-D-glucopyranosyl-(1→4)-2-amino-2-deoxy-D-glucose, *see* A-10064
2624-63-7 Coproporphyrinogen III, *in* C-10126
2644-75-9 Dihydroagosterol, *in* L-10023
2747-05-9 Hymecromone; Ac, *in* H-10177
2761-77-5 Communic acid, *in* L-10010
2763-20-4 16-Anhydrogigitoxigenin, *in* D-10122
3030-93-1 2,4-Dihydroxybenzaldehyde; Semicarbazone, *in* D-10109
3051-22-7 6-Heptyltetrahydro-2*H*-pyran-2-one; (±)-form, *in* H-10031
3073-57-2 *N,N'*-1,4-Butanediybisacetamide, *in* B-10051
3080-19-1 ▶ Ascleposide, *in* U-10020
3147-62-4 3,5-Dihydroxybenzoic acid, *see* D-10110
3147-62-4 3,5-Dihydroxybenzoic acid; Amide, *in* D-10110
3213-30-7 3-Hydroxy-4-methoxyphenethylamine, *in* D-10305
3234-76-2 3-Methyl-2-cyclohexen-1-one; 2,4-Dinitrophenylhydrazone, *in* M-10050
3247-10-7 Vincadifformine; (–)-form, *in* V-10022
3301-61-9 *ent*-16*β*,17-Dihydroxy-19-kauranoic acid, *in* K-10005
3306-40-9 2-(2,4-Hexadiynylidene)-1,6-dioxaspiro[4.5]dec-3-ene; (*E*)-form, *in* H-10049
3319-03-7 2-(*N,N*-Dimethylamino)acetophenone, *in* A-10055
3326-71-4 ▶ 2-Furoylhydrazine, *in* F-10028
3368-04-5 Hymecromone; Dihydrogen phosphate, *in* H-10177
3391-86-4 ▶ 1-Octen-3-ol, O-10016
3484-61-5 12-Hydroxy-7,13-abetadien-18-oic acid; 12*α*-form, *in* H-10080
3484-65-9 Aspergillomarasmine A, A-10133
3513-00-6 Tomentogenin, *in* P-10138
3513-02-8 Metaplexigenin, *in* P-10059
3598-26-3 3-(3,4-Dihydroxyphenyl)-2-propen-1-ol, D-10243
3675-06-7 Davallic acid, F-10003
3687-48-7 1-Octen-3-ol, *see* O-10016
3724-55-8 3-Butenoic acid; Me ester, *in* B-10052
3810-66-0 *α*-D-Glucopyranosyl-(1→4)-*α*-D-glucopyranosyl-(1→6)-D-glucose, *see* G-10054
3835-52-7 Taxinine, *in* T-10070
3891-73-4 Octanedioic acid; Diamide, *in* O-10014
3946-32-5 Octanedioic acid; Mono-Me ester, *in* O-10014
4064-09-9 Hellebrigenin; 3-Ac, *in* T-10175
4107-65-7 1-Cyano-2,4-dimethoxybenzene, *in* D-10265
4117-11-7 Falcarinone, *in* H-10018
4142-98-7 3,5-Dihydroxybenzoic acid; Et ester, *in* D-10110
4179-20-8 2-Methyl-6-(4-methylphenyl)-4-heptanone, *in* B-10029
4196-95-6 2,10-Oxecanedione, *in* N-10040
4235-32-9 Hispidogenin, *in* H-10224
4283-48-1 Shinjulactone H, *in* C-10066
4283-49-2 Shinjulactone L, *in* C-10066
4331-85-5 Allostrophanthidin, *in* T-10177
4336-94-1 Strophalloside, *in* T-10177
4343-50-4 3-*O*-*β*-D-Glucopyranuronosyl-D-galactose, *see* G-10078
4360-12-7 ▶ Ajmaline, A-10035
4394-85-8 ▶ 4-Morpholinecarboxaldehyde, *in* M-10091
4410-48-4 ▶ Ajmaline; B,HCl, *in* A-10035
4427-76-3 4,4'-Diaminodibutylamine, D-10045
4431-01-0 Ligustilide, L-10052
4433-58-3 Alloperiplogenin, *in* T-10134
4530-21-6 Enniatin A₁, E-10017
4539-91-7 2-*O*-*β*-D-Glucopyranuronosyl-D-mannose, G-10083
4567-98-0 Undecanedioic acid; Di-Me ester, *in* U-10006
4593-97-9 Isosalsoline, T-10029
4594-02-9 Isosalsolidine, D-10267
4666-84-6 Cryptomeridiol, *in* E-10217
4668-74-0 Klaineanon, K-10013
4678-45-9 ▶ Grayanotoxin III, *in* G-10129
4684-32-6 Picrinine, P-10116
4697-66-9 Paynantheine, P-10019
4697-68-1 Uncarine D, *in* U-10005
4697-79-4 *N*-Methylangustifoline, *in* A-10087
4720-09-6 ▶ Grayanotoxin I, *in* G-10129
4732-12-1 2-Ethoxy-1-isopropyl-4-methylbenzene, *in* I-10048

4783-35-1	14,16-Epoxy-20-nor-5(10),6,8,13-abietatetraene-11,12-dione, <i>see</i> E-10132	6089-94-7	Machaerinic acid; Me ester, <i>in</i> D-10211	7785-53-7	α -Terpineol; (<i>R</i>)-form, <i>in</i> M-10031
4800-93-5	11-Methoxyburnamomine, <i>in</i> E-10002	6100-60-3	4-Methoxy-1,3-benzenediol, <i>in</i> B-10013	7801-18-5	Kurchinin, <i>in</i> F-10083
4802-79-3	1,2,3,4,6,7,12,12 <i>b</i> -Octahydroindolo[2,3- <i>a</i>]quinolizine, O-10013	6198-06-7	Lanost-8-en-3-ol, L-10024	7803-51-2	► Phosphine, P-10101
4880-88-0	Vinburnine, <i>in</i> E-10002	6213-88-3	3-Iodo-2-propenoic acid; (<i>E</i>)-form, Me ester, <i>in</i> I-10017	8002-43-5	Phosphatidylcholine, P-10100
4919-33-9	4-Ethoxyphenylacetic acid, <i>in</i> H-10215	6214-23-9	3-Iodo-2-propenoic acid; (<i>Z</i>)-form, Me ester, <i>in</i> I-10017	9062-83-3	Monellin, M-10085
4955-22-0	Gibberellin A ₁₄ , <i>in</i> G-10028	6214-35-3	3-Iodo-2-propenoic acid; (<i>Z</i>)-form, <i>in</i> I-10017	9076-44-2	Chymostatin, C-10096
4963-01-3	Isomitrathylline, <i>in</i> M-10082	6246-46-4	Ursonic acid, <i>in</i> H-10242	10007-75-7	12-Epirockogenin; Di-Ac, <i>in</i> S-10099
5042-15-9	1,6,8-Trihydroxy-2-methoxyxanthone, <i>in</i> T-10073	6247-99-0	1,8-Dihydroxy-3-(hydroxymethyl)-9(10 <i>H</i>)-anthracenone, D-10179	10007-76-8	Rockogenin; Di-Ac, <i>in</i> S-10099
5088-73-3	Quercetin 3- <i>O</i> - α -L-rhamnofuranoside, Q-10006	6307-89-7	5-Methoxy-2-methyl-1,3-benzenediol, <i>in</i> M-10043	10024-89-2	► Morpholine; B,HCl, <i>in</i> M-10091
5092-09-1	Saikogenin A, <i>in</i> O-10022	6338-45-0	1,4-Dimethyl-1 <i>H</i> -imidazole, <i>in</i> M-10064	10027-07-3	Octanedioic acid; Dichloride, <i>in</i> O-10014
5096-49-1	► Anacrotine, A-10078	6372-02-7	3-Iodo-2-propenoic acid; (<i>E</i>)-form, <i>in</i> I-10017	10102-43-9	► Nitrogen oxide (NO), N-10029
5117-01-1	Taxifolin, <i>see</i> P-10050	6380-29-6	Thymol; Benzoyl, <i>in</i> I-10048	10169-80-9	1,3,8-Trihydroxy-2-methylanthraquinone, T-10161
5154-41-6	Dracocephaloides, <i>in</i> T-10052	6482-98-0	2-Hydroxy-3-(4-hydroxyphenyl)propanoic acid; (\pm)-form, <i>in</i> H-10167	10172-02-8	Limacine, <i>in</i> F-10001
5171-37-9	Uncarine E, <i>in</i> U-10005	6487-33-8	Isocorypalmine; (\pm)-form, <i>in</i> I-10029	10178-31-1	Elliotinol, <i>in</i> L-10010
5173-69-3	Geosmin, <i>see</i> G-10025	6542-59-2	Lanceoletin, <i>in</i> P-10040	10252-12-7	1,2,3,4,6,7,12,12 <i>b</i> -Octahydroindolo[2,3- <i>a</i>]quinolizine; (<i>S</i>)-form, <i>in</i> O-10013
5173-70-6	Geosmin, <i>see</i> G-10025	6579-82-4	3-Hydroxycholestan-6-one; (3 α ,5 α)-form, <i>in</i> H-10098	10259-22-0	3-Methoxybenzoic acid; Et ester, <i>in</i> M-10038
5308-89-4	1,2,5,9,10-Pentahydroxy-4(20),11-taxadien-13-one, <i>in</i> T-10006	6587-31-1	β -D-Galactopyranosyl-(1 \rightarrow 4)- β -D-galactopyranosyl-(1 \rightarrow 4)-D-glucose, G-10008	10264-31-0	3-Phenyl- <i>N</i> -(2-phenylethyl)propanamide, <i>in</i> P-10098
5308-90-7	2,5,9,10-Tetrahydroxy-4(20),11-taxadien-13-one, T-10070	6593-55-1	Dihydroepianosterol, <i>in</i> L-10024	10289-37-9	Acetylramosin C, <i>in</i> S-10136
5368-81-0	3-Methoxybenzoic acid; Me ester, <i>in</i> M-10038	6619-95-0	15-Hydroxy-16-kauren-19-oic acid; (<i>ent</i> -15 α)-form, <i>in</i> H-10170	10313-69-6	<i>N</i> -Methylsecoglaucine; B,MeI, <i>in</i> M-10069
5373-11-5	Glucoluteolin, <i>in</i> T-10052	6619-97-2	Xylopic acid, <i>in</i> H-10170	10347-13-4	4- <i>O</i> - α -D-Galactopyranuronosyl-D-xylose, G-10017
5399-02-0	Heptadecanoic acid; Nitrile, <i>in</i> H-10019	6620-00-4	<i>ent</i> -15-Oxo-16-kauren-19-oic acid, <i>in</i> H-10170	10365-86-3	4- <i>O</i> -Methyl- α -D-glucopyranosyl-(1 \rightarrow 2)- β -D-xylopyranosyl-(1 \rightarrow 4)-D-xylose, <i>in</i> G-10084
5399-68-8	Resorcylaldoxime, <i>in</i> D-10109	6685-67-2	Taxifolin; (2 <i>R</i> ,3 <i>R</i>)-form, Penta-Ac, <i>in</i> P-10050	10379-62-1	Desoxoglabrolide, <i>in</i> O-10032
5468-37-1	2-Aminoacetophenone; B,HCl, <i>in</i> A-10055	6688-49-9	Ryanodol, R-10064	10379-65-4	Abrisapogenol D, <i>in</i> O-10032
5470-95-1	2,3-Dihydroxybenzaldehyde; Di-Me ether, oxime, <i>in</i> D-10108	6691-83-4	Cinobufaginol, <i>in</i> E-10155	10418-09-4	Pyroracemic acid thiosemicarbazone, <i>in</i> P-10180
5508-58-7	Andrographolide, <i>in</i> T-10156	6822-47-5	Sophoradiol, <i>in</i> O-10024	10447-93-5	1,5-Dimethyl-1 <i>H</i> -imidazole, <i>in</i> M-10064
5516-88-1	Paspalic acid, P-10013	6822-63-5	Alkaloid LC2, <i>see</i> A-10048	10482-56-1	α -Terpineol; (<i>S</i>)-form, <i>in</i> M-10031
5522-63-4	Coproporphyrin III; Tetra-Me ester, <i>in</i> C-10126	6859-01-4	Isorhynchophylline, <i>in</i> R-10031	10526-80-4	Phosphoenolpyruvic acid; Monocyclohexylammonium salt, <i>in</i> P-10102
5535-87-5	2-(2,4-Hexadiynylidene)-1,6-dioxaspiro[4.5]dec-3-ene; (<i>Z</i>)-form, <i>in</i> H-10049	6869-17-6	17 α -Helveticoside, <i>in</i> T-10177	10597-60-1	2-(3,4-Dihydroxyphenyl)ethanol, D-10235
5544-49-0	Romneine; (<i>S</i>)-form, <i>in</i> R-10041	6869-50-7	Lincolone, <i>in</i> T-10066	10601-80-6	Ethyl 3,3-diethoxypropionate, <i>in</i> O-10061
5544-50-3	Romneine; (\pm)-form, <i>in</i> R-10041	6870-10-6	Cynanchogenin, <i>in</i> T-10066	11005-49-5	Scillicyanoside, <i>in</i> T-10176
5573-16-0	Saikogenin D, <i>in</i> O-10022	6870-18-4	10-Hydroxygeissoschizol, H-10149	11017-36-0	Senfolomycin A, <i>in</i> P-10017
5594-30-9	Methyl phaeophorbide a, <i>in</i> P-10092	6871-21-2	Asimilobine; (<i>R</i>)-form, <i>in</i> A-10132	11021-13-9	► Ginsenoside R ₂₂ , <i>in</i> D-10011
5600-01-1	Dihydroagosterol; Ac, <i>in</i> L-10023	6878-14-4	Ervamine, <i>in</i> V-10022	11021-14-0	► Ginsenoside R ₆ , <i>in</i> D-10011
5629-60-7	Uncarine C, <i>in</i> U-10005	6878-83-7	► Tecomanine, T-10015	11024-36-5	Fistulin, F-10012
5631-68-5	3-(2,4-Dihydroxyphenyl)propanoic acid, D-10242	6879-81-8	9-Demethylhomolycorine, <i>in</i> H-10049	11031-38-2	Rubradirin, R-10057
5675-51-4	1,12-Dodecanediol, D-10302	6883-35-8	Uncarine B, <i>in</i> U-10005	11031-56-4	Senfolomycin B, <i>in</i> P-10018
5749-67-7	2-Acetoxybenzoic acid, <i>see</i> A-10014	6892-79-1	Protopanaxadiol, <i>in</i> D-10011	11033-34-4	► Steffimycin, S-10109
5813-86-5	3-Methoxybenzoic acid; Amide, <i>in</i> M-10038	6899-73-6	Uncarine A, <i>in</i> U-10005	11034-45-0	4(20),11-Taxadiene-1,2,5,9,10,13-hexol; (1 β ,2 α ,5 α ,9 α ,10 β ,13 α)-form, 13-Ketone, 5-cinnamoyl, <i>in</i> T-10006
5837-31-0	3-Hydroxycholestan-6-one; (3 β ,5 β)-form, Me ether, <i>in</i> H-10098	6901-13-9	β -Lumicolchicine, L-10082	11037-26-6	Mansonin, <i>in</i> T-10177
5837-32-1	3-Hydroxycholestan-6-one; (3 β ,5 β)-form, <i>in</i> H-10098	6901-14-0	γ -Lumicolchicine, <i>in</i> L-10082	11050-21-8	Ciguatoxin, C-10097
5837-39-8	3-Hydroxycholestan-6-one; (3 β ,5 α)-form, Me ether, <i>in</i> H-10098	6920-38-3	Juncein†, <i>in</i> T-10052	11055-94-0	Trifolin†, <i>see</i> T-10123
5876-17-5	Haplopine, H-10002	6987-78-6	3 β -Hydroxycoriaceolide, <i>in</i> D-10211	11060-82-5	Hederacaucoside D, <i>in</i> D-10212
5887-86-5	4- <i>O</i> - α -D-Galactopyranuronosyl-D-galactose, G-10013	6989-38-4	Evodine†, <i>in</i> H-10002	11088-09-8	Wilforin†, W-10001
5894-59-7	4- <i>O</i> - α -D-Galactopyranuronosyl-D-galacturonic acid, G-10015	7006-33-9	Ornithine, O-10049	11093-43-9	β -Soladulcine, <i>in</i> S-10071
5938-03-4	Ivalin, <i>in</i> H-10141	7044-33-9	► Cheirotoxin, <i>in</i> T-10177	11113-62-5	Enniatin A, <i>see</i> E-10016
5956-09-2	Dihydroagarofuran, <i>in</i> A-10031	7082-34-0	► Erysimoside, <i>in</i> T-10177	12656-83-6	Lucenin 3, L-10067
5956-12-7	α -Agarofuran, A-10031	7102-32-1	Isolineolone, <i>in</i> T-10066	12672-45-6	Cauloside D, <i>in</i> D-10212
5980-02-9	Vindolinine, V-10024	7200-97-7	3-(4-Isopropylphenyl)-2-methylpropanal; Semicarbazone, <i>in</i> I-10049	12708-28-0	Protolyofoligenic acid, <i>in</i> T-10137
5980-33-6	Hymecromone, <i>see</i> H-10177	7264-19-9	Acaciabiuronic acid, A-10011	12710-02-0	► Lienomycin, L-10050
6014-43-3	Glucostrophanthidin, <i>in</i> T-10177	7268-75-9	3- <i>O</i> - β -D-Galactopyranuronosyl-D-galactose, G-10014	12789-49-0	Proceranin A, <i>in</i> D-10211
6028-03-1	Hederagenin; Di-Ac, Me ester, <i>in</i> D-10212	7372-30-7	Acetylursolic acid, <i>in</i> H-10242	13004-62-1	2,6-Diamino-4-hexenoic acid; (<i>S</i>)-(<i>E</i>)-form, <i>in</i> D-10046
6037-45-2	α -D-Galactopyranuronosyl-(1 \rightarrow 4)- α -D-galactopyranuronosyl-(1 \rightarrow 4)-D-galacturonic acid, G-10011	7505-12-6	Triacantanoic acid; Et ester, <i>in</i> T-10100	13077-88-8	Periplogenin; 3-Ac, <i>in</i> T-10134
6040-08-0	β -Agarofuran, <i>in</i> A-10031	7507-89-3	2',6'-Dihydroxy-4'-methoxyacetophenone, <i>in</i> T-10129	13137-64-9	► Periplocin, <i>in</i> T-10134
6040-30-8	Egiceradienol, <i>in</i> C-10044	7529-22-8	Morpholine; <i>N</i> -Me, <i>N</i> -Oxide, <i>in</i> M-10091	13140-15-3	<i>N</i> -Phenyl-3-butenamide, <i>in</i> B-10052
		7755-01-3	Betulafolienetriol, <i>in</i> D-10011	13255-05-5	5 α -Hydroxyhomolycorine, <i>in</i> H-10069
		7771-44-0	► 5,8,11,14-Eicosatetraenoic acid, E-10009	13289-18-4	► Hellebrin, <i>in</i> T-10175
				13289-20-8	Olitoriside, <i>in</i> T-10177
				13362-52-2	1,13-Tridecanediol, T-10118

13382-86-0	α -D-Galactopyranosyl-(1 \rightarrow 6)- α -D-galactopyranosyl-(1 \rightarrow 6)-D-glucose, G-10007	15487-11-3	Strophotheveside, in T-10177	17245-31-7	5-Hydroxy-3,3',4',5',6,7-hexamethoxyflavone, in H-10026
13445-50-6	► Diphosphine, D-10297	15527-80-7	Peraksine, P-10076	17245-32-8	3,3',4',5',5',6,7-Heptahydroxyflavone;
13473-51-3	► Convalloside, in T-10177	15647-43-5	<i>N</i> ⁵ -Benzoylornithine, in O-10049		3,3',4',5',6,7-Hexa-Me ether, Ac, in H-10026
13476-25-0	Linderane, in E-10089	15647-44-6	Ornithine, see O-10049	17273-30-2	Gossypol; (+)-form, Hexa-Me ether, in G-10113
13717-17-4	11-Hydroxyhexadecanoic acid; (S)-form, in H-10160	15664-29-6	Phacophorbide a, P-10092	17364-16-8	α -Lysolecithin; (R)-form, in L-10088
13761-05-2	Zeylanicine, in E-10108	16011-97-5	1,4-Butanediamine; <i>N,N'</i> -Di-Me, in B-10051	17364-17-9	α -Lysolecithin, see L-10088
13761-06-3	Zeylanidine, in E-10108	16012-03-6	<i>N,Np</i> -1,4-Butanediybis[<i>N</i> -methylbenzamide], in B-10051	17364-18-0	α -Lysolecithin, see L-10088
13843-88-4	Filicenal, F-10009	16137-74-9	15 α -Hydroxysoladulcine, in S-10071	17374-27-5	1,5-Dimethylhydantoin, in M-10065
13850-16-3	Tormentic acid, in T-10194	16137-76-1	15 β -Hydroxysoladulcine, in S-10071	17388-39-5	Swertiamarin, S-10136
13879-06-6	Nerifoliol, in E-10228	16179-94-5	10-Methoxyyohimbine; 16-Epimer, O-Ac, in M-10042	17391-09-2	Isocarapanabaine, in C-10021
13879-09-9	Lanost-8-en-3-ol, see L-10024	16218-82-9	10-Methoxyyohimbine; B,HCl, in M-10042	17526-17-9	► Ibericin, in D-10180
13894-97-8	1,9,16-Heptadecatriene-4,6-diyn-3-ol, see H-10022	16290-07-6	Populin, P-10133	17528-72-2	5,6,7,8-Tetrahydrobiopterin, T-10025
14004-47-8	5,7-Dimethoxy-8-methylflavone, in D-10201	16366-23-7	3-(2-Methylphenyl)-2-propenoic acid, see M-10068	17654-26-1	Taxifolin; (2 <i>R</i> ,3 <i>R</i>)-form, in P-10050
14010-23-2	Heptadecanoic acid; Et ester, in H-10019	16400-73-0	6-Heptyltetrahydro-2 <i>H</i> -pyran-2-one, see H-10031	17673-25-5	► Phorbol, in P-10063
14019-66-0	Uncarine F, in U-10005	16423-19-1	Geosmin; (\pm)-form, in G-10025	17904-36-8	16-Kaurene-3,19-diol; (<i>ent</i> -3 β)-form, 19-Succinoyl ester, in K-10006
14107-97-2	1,3,5-Trimethoxy-2-methylbenzene, in M-10043	16452-25-8	1,3-Dithiane; 1-Oxide, in D-10298	17948-33-3	Rutacridone, R-10062
14116-68-8	β -D-Galactopyranosyl-(1 \rightarrow 3)-2-acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 4)-D-glucose, G-10002	16452-32-7	Geosmin, see G-10025	17958-39-3	► Cynaustine, in A-10052
14158-85-1	2-(3,7,11,15-Tetramethyl-2,6,10,14-hexadecatetraenyl)benzene, T-10075	16487-10-8	1,3-Dithiane, see D-10298	17958-43-9	Amabiline†, A-10052
14191-95-8	► 4-Hydroxybenzeneacetonitrile, in H-10215	16496-51-8	4-Ethylidihydro-2(3 <i>H</i>)-furanone, E-10199	18016-54-1	Luteolin; 7- <i>O</i> - α -L-Rhamnopyranoside, in T-10052
14197-60-5	Ginsenoside Rg ₃ , in D-10011	16506-98-2	3-Oxopropanoic acid, see O-10061	18172-22-0	<i>N</i> -Deacetyl- <i>N</i> -formyl- γ -lumicolchicine, in L-10082
14200-24-9	2-Methyl-4-oxopentanedioic acid; Di-Et ester, 2,4-dinitrophenylhydrazone, in M-10067	16544-46-0	3-Oxopropanoic acid, see O-10061	18172-23-1	<i>N</i> -Deacetyl- <i>N</i> -formyl- β -lumicolchicine, in L-10082
14215-86-2	Sweroside, S-10135	16561-27-6	► Cocarcinogen A2, in P-10063	18172-24-2	2- <i>O</i> -Demethyl- β -lumicolchicine, in L-10082
14226-18-7	Glycyrrhetol, in D-10214	16561-28-7	► Cocarcinogen B7, in P-10063	18172-25-3	<i>N</i> -Deacetyl- <i>N</i> -formyl-3- <i>O</i> -demethyl- β -lumicolchicine, in L-10082
14292-40-1	Taxifolin; (2 <i>R</i> ,3 <i>R</i>)-form, 7- <i>O</i> - β -D-Glucopyranoside, in P-10050	16561-29-8	► Cocarcinogen A1, in P-10063	18184-25-3	21-Hydroxyisoglabrolide, in T-10180
14383-56-3	Tyramine; <i>O,N</i> -Di-Ac, in T-10212	16649-41-5	3-Hydroxypregn-5-ene-7,20-dione; (3 β ,17 α)-form, in H-10221	18223-72-8	Ervincine, in P-10116
14402-41-6	4- <i>O</i> - α -D-Glucopyranuronosyl-D-galactose, G-10077	16649-44-8	3-Hydroxypregn-5-ene-7,20-dione; (3 β ,17 α)-form, Ac, in H-10221	18271-82-4	2,2,2-Trichloro-1-methoxyethanol, in T-10109
14446-49-2	3- <i>O</i> - β -D-Glucopyranuronosyl-D-galactose, G-10078	16653-52-4	Rockonin, in S-10099	18272-02-1	1,1,1-Trichloro-2,2-dimethoxyethane, in T-10109
14475-60-6	1,4-Butanediamine; <i>N</i> -Me, in B-10051	16658-23-4	Colupone, C-10118	18278-34-7	4-Hydroxy-2-methoxybenzaldehyde, in D-10109
14501-58-7	3-(4-Isopropylphenyl)-2-methylpropanal; 2,4-Dinitrophenylhydrazone, in I-10049	16665-57-9	Leontalbinine, see L-10040	18310-55-9	3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol, see D-10269
14599-48-5	Cycloart-23-ene-3,25-diol; (3 β ,23 <i>E</i>)-form, in C-10160	16741-22-3	3- <i>O</i> - β -D-Glucopyranuronosyl-D-galactose, see G-10078	18374-17-9	Vincadifformine; (\pm)-form, in V-10022
14643-66-4	Coproporphyrin III, C-10126	16741-23-4	3- <i>O</i> - β -D-Glucopyranuronosyl-D-galactose; β -Pyranose-form, Benzyl glycoside, Me ester, in G-10078	18410-94-1	3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol, see D-10269
14682-34-9	(-)-Aromadendrene, in A-10125	16741-24-5	3- <i>O</i> - β -D-Glucopyranuronosyl-D-galactose; β -Pyranose-form, Benzyl glycoside, in G-10078	18444-66-1	► Cucurbitacin E, in C-10140
14843-73-3	α -L-Fucopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 4)-D-glucose; Pyranose-form, in F-10024	16741-26-7	3- <i>O</i> - β -D-Glucopyranuronosyl-D-galactose; 6'-Me ester, in G-10078	18452-51-2	Furanoeremophilane-6,9-dione, in H-10148
14863-27-5	α -Lysolecithin, L-10088	16804-55-0	<i>N</i> ⁷ -Glutamylaspartic acid; L-L-form, in G-10091	18493-30-6	Metochalcone, in D-10240
14897-06-4	Chlorophyllide a, in C-10084	16824-89-8	Nitrogen oxide (N ₂ O), in N-10029	18524-59-9	16-Kaurene-3,19-diol; (<i>ent</i> -3 β)-form, in K-10006
14937-32-7	1,2,3,4,6-Pentagalloylglucose; β -D-Pyranose-form, in P-10035	16836-31-0	16,17-Kauranediol; (<i>ent</i> -16 β)-form, in K-10003	18524-94-2	Loganin, in L-10059
15052-76-3	4 α -Hydroxydihydroagarofuran, in A-10031	16892-03-8	► Speciosine, S-10086	18530-09-1	Taxinine A, in T-10070
15218-17-4	Excelsimine, in M-10042	16910-32-0	Obtusifoliol, in D-10271	18530-10-4	Taxinine H, in T-10070
15218-18-5	10-Methoxyyohimbine; 16-Epimer; B,HCl, in M-10042	17004-75-0	2-Methyl-1-(2,4,6-trihydroxyphenyl)-1-propanone; 2- <i>O</i> - β -Glucopyranoside, in M-10077	18546-02-6	6-Deoxyaltrose; D-form, in D-10037
15228-71-4	► Vinrosidine, L-10049	17042-16-9	4-Methyl-3-hexanone, M-10062	18556-44-0	► Vinrosidine sulfate, in L-10049
15266-53-2	10-Methoxyyohimbine, M-10042	17119-15-2	2-Hydroxy-2-(3-hydroxyphenyl)acetic acid, H-10166	18604-50-7	3-(3,4-Dihydroxyphenyl)-2-propen-1-ol, see D-10243
15266-60-1	10-Methoxygeissoschizol, in H-10149	17135-23-8	S-[[[[(Methylsulfinyl)methyl]thio]methoxy]methyl]thiomethanesulfonate, M-10071	18695-03-9	Luteolin, see T-10052
15298-36-9	Aegeline; (+)-form, in A-10027	17149-11-0	2-Amino-3-hydroxy-2-(hydroxymethyl)propanoic acid, A-10070	18892-74-5	1- <i>O</i> -Octadecanoyl-2- <i>O</i> -arachidonoyl- <i>sn</i> -glycero-3-phosphocholine, see O-10010
15298-37-0	Aegeline; (-)-form, in A-10027	17172-16-6	Pseudokopsinine, in V-10024	18944-21-3	Colupox a, C-10119
15397-05-4	α -D-Galactopyranosyl-(1 \rightarrow 3)- β -D-fructofuranosyl α -D-glucopyranoside, G-10006	17179-38-3	► Cheiroside A, in U-10020	18997-88-1	Ethyl galactoside; β -D-Pyranose-form, in E-10200
15402-27-4	Gentiacaleine, in T-10073	17184-21-3	Cauloside A, in D-10212	19038-27-8	Sarracine <i>N</i> -oxide, in S-10023
15486-24-5	Eleutheroside C, in E-10200	17194-82-0	4-Hydroxyphenylacetic acid; Amide, in H-10215	19086-75-0	Castalin, C-10032
15486-27-8	Machaeric acid; Et ester, in D-10211	17245-30-6	3,3',4',5',5',6,7-Heptamethoxyflavone, in H-10026	19125-34-9	4-Piperidinone; 1-Ph, in P-10119
				19134-37-3	2-Methyl-1,3-oxathiane, M-10066
				19248-58-9	Enniatin A, see E-10016
				19436-07-8	Gibberellin A ₁₂ 7-aldehyde, in G-10028

- 19473-19-9 4,5-Dihydro-3-hydroxy-5-(hydroxymethyl)-2(3*H*)-furanone, *see* D-10096
- 19473-20-2 4,5-Dihydro-3-hydroxy-5-(hydroxymethyl)-2(3*H*)-furanone; (3*S*,5*S*)-*form*, *in* D-10096
- 19520-74-2 3,5-Dihydroxybenzoic acid; Mono-Me ether, *Me* ester, *in* D-10110
- 19520-75-3 3-Hydroxy-5-methoxybenzoic acid, *in* D-10110
- 19526-09-1 Franguloline, F-10018
- 19641-12-4 Isosalsoline; (±)-*form*, *N*-Me, *in* T-10029
- 19700-21-1 Geosmin, G-10025
- 19716-59-7 Oxypalmatine, O-10064
- 19774-14-2 α-D-Glucopyranosyl-(1→2)-[α-D-glucopyranosyl-(1→4)]-D-glucose, *see* G-10045
- 19775-49-6 Dimethoxyburnamonine, *in* E-10002
- 19775-56-5 Ajmaline; Di-Ac, *in* A-10035
- 19775-85-0 Gambirdine, *in* M-10082
- 19775-86-1 Isogambirdine, *in* M-10082
- 19870-31-6 6-Tuliposide A, T-10211
- 19870-44-1 Cesioside, *in* T-10052
- 19888-11-0 Tamaulipin A, *in* H-10153
- 19891-50-0 Nagilactone A, N-10001
- 19891-51-1 Nagilactone B, *in* N-10001
- 19893-21-1 Enniatin D, E-10019
- 19902-53-5 Acerinol, A-10012
- 19914-20-6 Enniatin B₁, E-10018
- 19918-92-4 Ajmaline; O¹⁷-Ac, *in* A-10035
- 19942-02-0 Gymnestrogenin, *in* O-10027
- 19942-05-3 Betulafolienetriol oxide I, *in* E-10057
- 20053-66-1 α-Agarofuran, *see* A-10031
- 20056-21-7 Cynarotrioxide, *in* T-10052
- 20072-25-7 Isoleurosine, *in* L-10049
- 20078-85-7 Albertine, *in* L-10040
- 20082-46-6 Linderadine, *in* E-10089
- 20086-34-4 4-Methyl-3-hexanone; (*S*)-*form*, *in* M-10062
- 20089-74-1 2,3,11,23-Tetrahydroxy-12-ursen-28-oic acid; (2α,3β,11β)-*form*, 11-Ketone, *Me* ester, *in* T-10071
- 20149-38-6 Litsealactone, *in* E-10108
- 20149-39-7 Litseaculane, *in* E-10108
- 20194-62-1 1,8-Dihydroxy-3-methoxy-6-(3-oxo-1-butenyl)anthraquinone, D-10197
- 20231-81-6 Uzarin, *in* U-10020
- 20237-62-1 2-O-α-L-Fucopyranosyl-L-fucose, F-10023
- 20291-40-1 Heptanedioic acid; *Me* ester, *in* H-10027
- 20300-26-9 ▶ Gossypol; (+)-*form*, *in* G-10113
- 20300-50-9 Odontoside†, O-10017
- 20303-60-0 β-Elementone, E-10011
- 20344-46-1 Galuteolin, *in* T-10052
- 20398-10-1 Gentiacauloside, *in* T-10073
- 20426-12-4 3-(4-Hydroxyphenyl)-1-phenyl-2-propen-1-one, H-10218
- 20486-36-6 Phegopolin, *in* D-10195
- 20489-11-6 Nardosinonediol, *in* D-10202
- 20547-77-7 16,17,19-Kauranetriol, *see* K-10005
- 20562-02-1 ▶ α-Solanine, *in* S-10072
- 20562-03-2 ▶ α-Chaconine, *in* S-10072
- 20591-87-1 Pyruvic acid; *Et* ester, oxime, *in* P-10180
- 20633-84-5 Scolymoside, *in* T-10052
- 20638-70-4 Ribitol; 2,4-O-Benzylidene, *in* R-10032
- 20777-39-3 Lavandulol, *see* L-10033
- 20785-62-0 Decarbomethoxytetrahydrosecodine, D-10024
- 20819-47-0 16-Desacetyl-16-anhydroacoschimperoside P, *in* D-10122
- 20839-12-7 ▶ Cocarcinogen A4, *in* P-10063
- 20853-58-1 Calthoside D, *in* D-10212
- 20882-69-3 Decussatine, *in* T-10073
- 20882-75-1 Swertianine, *in* T-10073
- 20911-77-7 Alkaloid RB20, *in* P-10076
- 20913-68-2 4-Ethylglutamic acid, E-10201
- 21018-84-8 Amarogentin, *in* S-10135
- 21044-78-0 Cowaxanthone, *in* D-10281
- 21044-79-1 ▶ Cowanol, *in* D-10280
- 21044-85-9 Cowanin, *in* D-10280
- 21104-28-9 Mahanimbine; (+)-*form*, *in* M-10003
- 21142-67-6 Colletodiol, C-10115
- 21144-17-2 3-(2,4-Dihydroxyphenyl)propanoic acid; 4-Me ether, *in* D-10242
- 21233-18-1 Amaroserin, *in* S-10136
- 21284-11-7 ▶ Crococin, *in* C-10135
- 21284-20-8 Kumokirine, *in* P-10005
- 21291-02-1 α-D-Glucopyranosyl-(1→6)-α-D-glucopyranosyl-(1→3)-D-glucose, *see* G-10056
- 21291-38-3 α-D-Glucopyranosyl-(1→4)-α-D-glucopyranosyl-(1→2)-D-glucose, *see* G-10052
- 21445-21-6 Crotochol, C-10135
- 21513-78-0 3-Hydroxycholestan-6-one; (3α,5β)-*form*, *in* H-10098
- 21513-79-1 3-Hydroxycholestan-6-one; (3α,5β)-*form*, *Me* ether, *in* H-10098
- 21513-82-6 3-Methoxycholestan-6-one, *in* H-10098
- 21513-83-7 3-Hydroxycholestan-6-one; (3α,5α)-*form*, Ac, *in* H-10098
- 21677-80-5 Pterocarpol, *in* E-10218
- 21902-99-8 Withacnistin, W-10002
- 21903-04-8 3-Ethoxy-2,3-dihydrowithacnistin, *in* W-10002
- 21930-88-1 3-(3,4-Dihydroxyphenyl)-2-propen-1-ol; (*E*)-*form*, 4'-Me ether, 1,3'-diangeloyl, *in* D-10243
- 21956-47-8 Littorine; (*R*)-*form*, *in* L-10056
- 22032-51-5 3-Isopaynantheine, *in* P-10019
- 22065-56-1 Ethyl 2-(phosphonoxy)-2-propenoate, *in* P-10102
- 22105-31-3 2,4-Dichloronorlichexanthone, D-10059
- 22105-96-0 Thiophanic acid, *in* D-10059
- 22105-97-1 2,4-Dichloro-3,6-di-O-methylnorlichexanthone, *in* D-10059
- 22105-98-2 2,4-Dichloro-1,3,6-trimethoxy-8-methylxanthone, *in* D-10059
- 22146-03-8 ▶ Sarverogenin, *in* E-10164
- 22172-15-2 Norswertianine, T-10073
- 22172-17-4 Swertiaperenine, *in* T-10073
- 22174-29-4 3-(2,4-Dihydroxyphenyl)propanoic acid; Di-Me ether, *in* D-10242
- 22252-15-9 3-(4-Hydroxyphenyl)-1-phenyl-2-propen-1-one, *see* H-10218
- 22255-40-9 Loganic acid, L-10059
- 22309-13-3 Chlorophyll a', *in* C-10084
- 22338-69-8 Grandiflorolic acid, *in* H-10170
- 22343-40-4 Grandiflorolic acid; Ac, *in* H-10170
- 22412-73-3 β-D-Mannopyranuronosyl-(1→4)-β-D-glucopyranosyl-(1→4)-D-galactose, M-10015
- 22427-39-0 ▶ Ginsenoside A₂, *in* D-10009
- 22488-91-1 16-Kaurene-3,19-diol, *see* K-10006
- 22543-29-9 Undecanedioic acid; Di-Et ester, *in* U-10006
- 22564-99-4 Linalool; (±)-*form*, *in* D-10279
- 22592-22-9 Colupox a, *see* C-10119
- 22595-00-2 Auriculine†, *in* P-10005
- 22658-80-6 1-Octen-3-ol; (*R*)-*form*, *in* O-10016
- 22854-45-1 Acaciabiuronic acid; β-Pyranose-*form*, *Me* glycoside, hexa-Me, *Me* ester, *in* A-10011
- 23062-24-0 Eurycomalactone, E-10232
- 23107-01-9 5-Oxovincadiforimine, *in* V-10022
- 23109-94-6 Prostaglandin F-M, *see* P-10154
- 23130-58-7 3-Oxopropanoic acid; *Oxo*-*form*, 2,4-Dinitrophenylhydrazone, *in* O-10061
- 23179-26-2 Nervosine, *in* P-10005
- 23333-91-7 Geosmin, *see* G-10025
- 23393-10-4 α-D-Glucopyranosyl-(1→6)-α-D-glucopyranosyl-(1→3)-D-glucose, G-10056
- 23393-11-5 α-D-Glucopyranosyl-(1→3)-[α-D-glucopyranosyl-(1→6)]-D-glucose, G-10050
- 23393-12-6 α-D-Glucopyranosyl-(1→3)-α-D-glucopyranosyl-(1→3)-D-glucose, G-10048
- 23417-92-7 7-Isopentenylxylo-γ-fagarine, *in* H-10002
- 23444-75-9 Scorpiside, *in* T-10177
- 23477-45-4 α-D-Glucopyranosyl-(1→3)-α-D-glucopyranosyl-(1→6)-D-glucose, G-10051
- 23508-35-2 2-Hydroxy-3-(4-hydroxyphenyl)propanoic acid; (*S*)-*form*, *in* H-10167
- 23627-87-4 Trifolin†, T-10123
- 23643-62-1 Cyclamotetraose, C-10153
- 23665-63-6 β-Cyperone, E-10212
- 23826-47-3 2-Aminoacetophenone; *N*-Me; B,HCl, *in* A-10055
- 23943-93-3 Lappaconine, *in* L-10027
- 23944-24-3 Norajmaline, *in* A-10035
- 23984-17-0 ▶ Asebotoxin I, *in* G-10129
- 24082-42-6 Dihydroxyresveratrol, T-10038
- 24094-45-9 Digiferruginol, H-10162
- 24099-25-0 7-(2,3-Epoxy-3-methylbutoxy)-4,8-dimethoxyfuro[2,3-*b*]quinoline, *in* H-10002
- 24131-34-8 2,3',4,5'-Tetramethoxybibenzyl, *in* T-10038
- 24148-76-3 Nigakilactone A, N-10025
- 24148-77-4 Nigakilactone B, *in* N-10025
- 24148-78-5 Nigakilactone C, *in* N-10025
- 24148-81-0 Isoparaine, *in* N-10025
- 24181-78-0 Fumaritine; Natural-*form*, *in* F-10027
- 24267-69-4 Shikokianin, *in* E-10119
- 24314-59-8 Scandine, S-10030
- 24393-48-4 3-(2-Methylphenyl)-2-propenoic acid; (*E*)-*form*, *Et* ester, *in* M-10068
- 24405-68-3 6-Hydroxyfuranoteremophilan-9-one; (6β,10β*FF*)-*form*, *in* H-10148
- 24405-77-4 6-Hydroxyfuranoteremophilan-9-one; (6β,10α*FF*)-*form*, Angeloyl, *in* H-10148
- 24405-84-3 6-Hydroxyfuranoteremophilan-9-one; (6β,10α*FF*)-*form*, Methylpropenoyl, *in* H-10148
- 24405-85-4 Dihydrodecompositin, *in* H-10148
- 24427-91-6 Sophoradiol; Di-Ac, *in* O-10024
- 24587-16-4 9,16-Heptadecadiene-4,6-diyn-3-ol; (*Z*)-*form*, *in* H-10017
- 24587-53-9 1-Octen-3-ol, *see* O-10016
- 24587-97-1 Pleoside, *in* T-10129
- 24631-87-6 4-Hydroxy-5-methyl-2*H*-1-benzopyran-2-one, H-10176
- 24677-78-9 2,3-Dihydroxybenzaldehyde, D-10108
- 24720-09-0 α-Damascone, *in* M-10025
- 24741-60-4 2-Amino-2-deoxy-β-D-glucopyranosyl-(1→3)-β-D-galactopyranosyl-(1→4)-D-glucose, *see* A-10068
- 24769-56-0 Prostaglandin E-M, *in* P-10154
- 24948-14-9 Mahanimbine; (±)-*form*, *in* M-10003
- 25047-20-5 Dictyopterene A, *in* H-10048
- 25193-56-0 α-D-Glucopyranosyl-(1→6)-β-D-glucopyranosyl-(1→6)-D-glucose, *see* G-10060
- 25242-83-5 α-D-Glucopyranosyl-(1→6)-α-D-glucopyranosyl-(1→2)-D-glucose, *see* G-10055
- 25246-27-9 Alloaromadendrene, *in* A-10125
- 25279-14-5 Pyxinol; 3,25-Di-Ac, *in* E-10057
- 25330-18-1 Pyxinol, *in* E-10057
- 25394-59-6 (+)-Nordicentrine, *in* D-10058
- 25405-80-5 Isocorydine *N*-oxide, *in* I-10028

25406-62-6	Spinasaponin B, <i>in</i> D-10212	28812-39-7	2',4',5,7-Tetramethoxyisoflavanone, <i>in</i> T-10055	31511-40-7	Luteolin; 7- <i>O</i> -(β -D-Glucopyranosylgalactoside), <i>in</i> T-10052
25406-67-1	Kingside, K-10012	28832-07-7	Dicentrine; (<i>R</i>)- <i>form</i> , <i>in</i> D-10058	31511-92-9	Luteolin 7-diglucoside, <i>in</i> T-10052
25488-62-4	Delphatine, D-10032	28845-86-5	13,16,19-Docosatrienoic acid; All-(<i>Z</i>)- <i>form</i> , <i>in</i> D-10300	31512-06-8	Panasenoside, <i>in</i> T-10123
25488-63-5	19-Oxodelphatine, <i>in</i> D-10032	28917-43-3	3,5-Dibenzoyloxybenzoic acid, <i>in</i> D-10110	31514-24-6	Kaempferol 3-digalactoside, <i>in</i> T-10123
25509-93-7	Gibberellin A ₁₆ , G-10029	28957-06-4	Enmenol, <i>in</i> E-10120	31514-30-4	Acetylheliosupine, <i>in</i> H-10011
25545-07-7	1-(4-Hydroxybenzoyl)glucose; β -D- <i>form</i> , <i>in</i> H-10085	29118-80-7	Syringopicroside, <i>in</i> L-10059	31565-50-1	8-Hydroxyzaluzanin C, <i>in</i> D-10175
25645-08-3	Erivanin, <i>in</i> D-10158	29118-86-3	3,6,9,12,15,18-Heneicosahexaene; All-(<i>Z</i>)- <i>form</i> , <i>in</i> H-10014	31569-21-8	Ribitol; 2,4- <i>O</i> -Benzylidene, 1,5-dibenzoyl, <i>in</i> R-10032
25694-72-8	Veronicastrósíde, <i>in</i> T-10052	29271-49-6	Etioline, E-10206	31569-30-9	Ribitol; 2,4- <i>O</i> -Benzylidene, 1,5-dibenzoyl, 3-mesyl, <i>in</i> R-10032
25741-02-0	2,2-Diethoxypropanoic acid, <i>in</i> P-10180	29276-58-2	Luteolin; 7- <i>O</i> -Laminaribioside, <i>in</i> T-10052	31569-33-2	Ribitol; 2,4- <i>O</i> -Methylene, 1,5-dibenzoyl, <i>in</i> R-10032
25763-71-7	Machaerinic acid, <i>in</i> D-10211	29428-83-9	<i>N</i> -Isobutyl-2,4,12-tetradecatriene-8,10-diyamide, <i>in</i> A-10079	31569-37-6	Ribitol; 2,4- <i>O</i> -Methylene, 1,5-dibenzoyl, 3-mesyl, <i>in</i> R-10032
25844-13-7	Heptaederanic acid; Amide, <i>in</i> H-10019	29477-83-6	▶ Narciclasine, N-10004	31570-39-5	Cembrene A, <i>in</i> C-10046
25905-14-0	▶ Lavandulol; (\pm)- <i>form</i> , Ac, <i>in</i> L-10033	29581-59-7	α -D-Glucopyranosyl-(1 \rightarrow 2)-[α -D-glucopyranosyl-(1 \rightarrow 4)]-D-glucose; β -Pyranose- <i>form</i> , Undeca-Ac, <i>in</i> G-10045	31660-13-6	11,15-Dihydroxy-9-oxo-5,13-prostadienoic acid; (5 <i>Z</i> ,8 <i>RS</i> ,11 <i>RS</i> ,12 <i>RS</i> ,13 <i>E</i> ,15 <i>RS</i>)- <i>form</i> , <i>in</i> D-10223
25991-81-5	Swertinin, <i>in</i> T-10073	29581-60-0	α -D-Glucopyranosyl-(1 \rightarrow 2)-[α -D-glucopyranosyl-(1 \rightarrow 4)]-D-glucose; β -Pyranose- <i>form</i> , <i>in</i> G-10045	31660-17-0	11,15-Dihydroxy-9-oxo-5,13-prostadienoic acid; (5 <i>Z</i> ,8 <i>SR</i> ,11 <i>RS</i> ,12 <i>RS</i> ,13 <i>E</i> ,15 <i>SR</i>)- <i>form</i> , <i>in</i> D-10223
26057-47-6	1,5-Diphenyl-1,4-pentadiene; (<i>Z,Z</i>)- <i>form</i> , <i>in</i> D-10296	29618-15-3	Pastuchoside C, <i>in</i> D-10212	31665-32-4	Neocomantherin, N-10016
26057-48-7	1,5-Diphenyl-1,4-pentadiene; (<i>E,E</i>)- <i>form</i> , <i>in</i> D-10296	29623-34-5	Colchicum autumnale Alkaloid M, <i>in</i> L-10082	31687-35-1	15(<i>R</i>)-Prostaglandin E ₂ ; Me ester, <i>in</i> D-10223
26057-49-8	1,5-Diphenyl-1,4-pentadiene; (<i>E,Z</i>)- <i>form</i> , <i>in</i> D-10296	29741-10-4	Luteolin; 7- <i>O</i> - β -D-Glucuronoside, <i>in</i> T-10052	31718-87-3	3- β -Glucosyl- <i>N</i> -acetylgalactosamine, <i>in</i> G-10042
26097-43-8	Gentiakochianosin, <i>in</i> T-10073	29748-10-5	Loganetin, <i>in</i> L-10059	31750-71-7	Deoxybruceol, D-10038
26110-43-0	Dicentrine; (\pm)- <i>form</i> , <i>in</i> D-10058	29774-67-2	Neovitexin, N-10023	31874-34-7	2,4-Dihydroxybenzaldehyde; Di-Me ether, oxime, <i>in</i> D-10109
26194-64-9	2- <i>O</i> -Demethyl- γ -lumicolchicine, <i>in</i> L-10082	29774-68-3	Neovavroside, N-10012	31930-36-6	3-Iodo-2-propenoic acid; (<i>Z</i>)- <i>form</i> , Et ester, <i>in</i> I-10017
26241-63-4	Isophorbol, <i>in</i> P-10063	29781-27-9	Sapindoside C, <i>in</i> D-10212	31930-37-7	3-Iodo-2-propenoic acid; (<i>E</i>)- <i>form</i> , Et ester, <i>in</i> I-10017
26279-88-9	Cocculine, <i>in</i> C-10113	29803-94-9	▶ Cucurbitacin I 2- <i>O</i> - β -D-glucopyranoside, <i>in</i> C-10140	31935-05-4	Prostaglandin F-M, <i>see</i> P-10154
26339-89-9	Hederacoside A, <i>in</i> D-10212	29836-27-9	Shanzhiside, S-10057	31991-78-3	Haplamine, <i>in</i> B-10051
26379-18-0	Neolinderalactone, <i>in</i> E-10089	29837-20-5	Dictyoptere B; (1 <i>R</i> ,1' <i>E</i> ,2 <i>R</i> ,3' <i>Z</i>)- <i>form</i> , <i>in</i> H-10048	32101-23-8	Sisalagenone, <i>in</i> S-10099
26413-18-3	1,3-Dithiane; 1,1,3,3-Tetraoxide, <i>in</i> D-10298	29838-67-3	Astilbin, <i>in</i> P-10050	32161-06-1	4-Piperidinone; <i>N</i> -Ac, <i>in</i> P-10119
26531-71-5	Cycloart-23-ene-3,25-diol; (3 <i>\beta</i> ,23 <i>E</i>)- <i>form</i> , 3-Ac, <i>in</i> C-10160	29913-86-8	Amarolide, A-10053	32203-46-6	1-Epiveranin, <i>in</i> D-10158
26632-11-1	Cerebronic acid; (<i>R</i>)- <i>form</i> , <i>in</i> H-10229	30048-24-9	Mahanimbicine, <i>in</i> M-10003	32205-23-5	Spinosic acid A, <i>in</i> D-10210
26660-57-1	7-Deoxyloganin, <i>in</i> L-10059	30201-14-0	Rheinanthrone, <i>see</i> D-10094	32208-45-0	Ursolic acid; Me ester, <i>in</i> H-10242
26770-82-1	9-Hydroxypyrehelminthosporol, <i>in</i> P-10142	30220-46-3	▶ Ingenol, I-10012	32215-20-6	<i>O</i> -Methylancistrocladine, <i>in</i> A-10083
27013-91-8	▶ Sapindoside A, <i>in</i> D-10212	30250-30-7	3',5,7-Trihydroxy-3,4',5',6'-tetramethoxyflavone, <i>in</i> H-10026	32221-59-3	Ancistrocladine, A-10083
27070-47-9	5,6,7,8-Tetrahydrobiopterin, <i>see</i> T-10025	30272-18-5	Grayanotoxin V, <i>in</i> G-10129	32223-12-4	Dihydroreynosin, <i>in</i> H-10140
27297-45-6	Glucodistylin, <i>in</i> P-10050	30293-99-3	5-Methyl-2,4-imidazolidinedione; (<i>S</i>)- <i>form</i> , 3- <i>N</i> -Hydroxy, <i>in</i> M-10065	32244-96-5	Tuorogenin, <i>in</i> H-10224
27321-63-7	Populin; 3- <i>O</i> -(4-Hydroxybenzoyl- β -D-glucopyranoside), <i>in</i> P-10133	30344-97-9	Bersenogenin, <i>in</i> T-10176	32272-22-3	2'-Hydroxy-7-methoxyflavone, <i>in</i> D-10164
27436-81-3	Populin; 3-(<i>O</i> -Benzoyl- β -D-glucopyranoside), <i>in</i> P-10133	30368-42-4	Dalbergiodin, T-10055	32381-02-5	Grandifloric acid; 3-Methylbutanoyl, <i>in</i> H-10170
27498-04-0	Caseamine, C-10029	30370-87-7	Quercetin 3-arabinoside, Q-10005	32381-03-6	Grandifloric acid; Angeloyl, <i>in</i> H-10170
27501-23-1	Picrinine, <i>see</i> P-10116	30429-35-7	3,3',4',5',5',6',7'-Heptahydroxyflavone; 3',4',5',6'-Tetra-Me ether, tri-Ac, <i>in</i> H-10026	32420-39-6	Fumaritine; (\pm)- <i>form</i> , <i>in</i> F-10027
27548-84-1	Sodoponin, <i>in</i> E-10119	30460-34-5	Rhodojaponin IV, <i>in</i> G-10129	32449-92-6	▶ Glucuro lactone; <i>D</i> - <i>form</i> , <i>in</i> G-10088
27661-49-0	Populin, <i>see</i> P-10133	30511-97-8	Veralosine, <i>in</i> E-10206	32476-67-8	▶ Periplocyamarin, <i>in</i> T-10134
27675-39-4	Cocculine, C-10111	30632-52-1	3- <i>O</i> -Demethyl- β -lumicolchicine, <i>in</i> L-10082	32581-31-0	β -D-Galactopyranosyl-(1 \rightarrow 6)- β -D-galactopyranosyl-(1 \rightarrow 4)-D-glucose, G-10009
27740-14-3	Ludovicin B, <i>in</i> D-10158	30719-67-6	▶ Gossypol; (\pm)- <i>form</i> , Hexa-Ac, <i>in</i> G-10113	32581-32-1	β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-(1 \rightarrow 3)-D-glucose, G-10065
27899-45-2	3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol, D-10269	30824-81-8	Eudesmane; 4 <i>\beta</i> - <i>form</i> , <i>in</i> E-10215	32581-33-2	α -D-Glucopyranosyl-(1 \rightarrow 4)- α -D-glucopyranosyl-(1 \rightarrow 6)-D-glucose, G-10054
27935-00-8	Antirride, A-10105	30883-34-2	3,23-Dihydroxy-12-oleanen-28-oic acid, <i>see</i> D-10212	32581-36-5	β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 3)-D-glucose, G-10064
27973-50-8	2',3',4',7-Tetrahydroxyisoflavan, <i>see</i> T-10054	30915-09-4	Phaseoloxide E, <i>in</i> O-10021	32581-37-6	β -D-Glucopyranosyl-(1 \rightarrow 3)- β -D-glucopyranosyl-(1 \rightarrow 6)-D-glucose, G-10063
28030-15-1	2-Hydroxy-3-(4-methoxyphenyl)propanoic acid, <i>in</i> H-10167	30925-52-1	3-(4-Hydroxyphenyl)-1-phenyl-2-propen-1-one, <i>see</i> H-10218	32581-38-7	β -D-Glucopyranosyl-(1 \rightarrow 3)- β -D-glucopyranosyl-(1 \rightarrow 4)-D-glucose, G-10062
28072-80-2	4- <i>O</i> - β -D-Mannopyranosyl-D-glucose, M-10013	30937-16-7	Phaseoloxide D, <i>in</i> O-10021	32581-40-1	β -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)-D-glucose, G-10061
28101-27-1	3- <i>O</i> -Demethyl- γ -lumicolchicine, <i>in</i> L-10082	30994-75-3	Sapindoside B, <i>in</i> D-10212	32619-42-4	Oleuropein, O-10033
28115-67-5	Pluviatilol, <i>in</i> P-10120	31000-13-2	Lappaconidine, L-10027	32619-52-6	Sapindoside E, <i>in</i> D-10212
28125-57-7	<i>O</i> -Demethylanhydrofusarubin, <i>in</i> A-10088	31081-68-2	Ajmaline, <i>see</i> A-10035		
28140-20-7	α -L-Rhamnopyranosyl-(1 \rightarrow 2)-[β -D-glucopyranosyl-(1 \rightarrow 3)]-D-glucose, R-10023	31106-05-5	Taxifolin; (2 <i>R</i> ,3 <i>R</i>)- <i>form</i> , 3'- <i>O</i> - β -D-Glucopyranoside, <i>in</i> P-10050		
28164-88-7	▶ Daphnetoxin, D-10012	31204-40-7	Sapindoside D, <i>in</i> D-10212		
28196-46-5	Neochebulagic acid, N-10015	31281-90-0	Eleutheroside C; Tetra- <i>O</i> -Ac, <i>in</i> E-10200		
28254-53-7	Reynosin, <i>in</i> H-10140	31427-08-4	1,2,4-Benzenetriol; 2-Me ether, 1- <i>O</i> - β -D-glucopyranoside, <i>in</i> B-10013		
28267-29-0	Tridecanoic acid; Et ester, <i>in</i> T-10119				
28398-06-3	1(10)-Aristolen-2-one, A-10123				
28405-99-4	Tazettine; (\pm)- <i>form</i> , <i>in</i> T-10014				
28446-58-4	3-Butenamide, <i>in</i> B-10052				
28619-41-2	Erythristemine, E-10192				
28644-71-5	Cistodiol, <i>in</i> C-10106				
28644-72-6	Cistodioic acid, <i>in</i> C-10106				
28714-26-3	Aerotionin, A-10028				

- 32728-78-2 ▶ Heliosupine, H-10011
 32738-74-2 6-Deoxyaltrose; *L*-form, in D-10037
 32769-01-0 Glucotricin, in T-10140
 32779-95-6 3,6,9,12,15,18-Heneicosahexaene, see H-10014
 32834-38-1 1,3,8-Trihydroxy-2-methylanthraquinone; Tri-Ac, in T-10161
 32898-79-6 Ferreirin, in T-10055
 33116-33-5 Stephavanine, S-10116
 33128-25-5 7,9-Octadecadiynoic acid, O-10008
 33177-29-6 5,6-Dihydro-4-hydroxy-6-methyl-2H-pyran-2-one, D-10097
 33204-37-4 Picrasin D, in N-10025
 33228-82-9 19,20-Didehydroervatamine, in E-10191
 33257-13-5 Ervatamine, E-10191
 33279-57-1 ▶ *k*-Strophanthoside, in T-10177
 33376-82-8 Euonyminol, in N-10039
 33390-41-9 8-Desoxygartanin, T-10144
 33426-21-0 3,6,9,12,15-Nonadecapentaene; All-(*Z*)-form, in N-10038
 33465-16-6 ▶ Huratoxin, H-10076
 33495-49-7 20-Epiervatamine, in E-10191
 33512-38-8 Chaparrolide, C-10066
 33530-70-0 Luteolin; 3'-*O*- β -D-Glucopyranoside, 7-*O*-sulfate, in T-10052
 33530-84-6 3-Hydroxypregn-5-ene-7,20-dione; 3 β -form, in H-10221
 33570-04-6 Bilobalide A, B-10023
 33903-17-2 24 α -Methylphenol, in M-10056
 34055-20-4 Luteolin; 7-*O*-(Arabinosylglucoside), in T-10052
 34080-08-5 Dammar-24-ene-3,6,12,20-tetrol; (3 β ,6 α ,12 β ,20 S)-form, in D-10009
 34137-24-1 Paludosine, P-10005
 34174-65-7 α -D-Glucopyranosyl-(1 \rightarrow 2)-[α -D-glucopyranosyl-(1 \rightarrow 4)]-D-glucose, G-10045
 34183-45-4 Asebotoxin VII, in E-10090
 34183-49-8 Pieristoxin J, in E-10090
 34187-26-3 5-Hydroxy-8,8-dimethyl-2-phenyl-2H,6H-benzo[1,2-*b*:5,4-*b'*]dipyran-6-one, H-10113
 34206-60-5 ▶ Pieristoxin G, in E-10090
 34211-16-0 Apuleitrin, in H-10026
 34213-21-3 β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-(1 \rightarrow 3)-D-glucose, see G-10065
 34232-66-1 Homoerithionin, in A-10028
 34294-04-7 Sellowin C, in N-10001
 34302-25-5 ▶ Thefeofoline, in U-10020
 34302-34-6 *N*'-Demethylauricene, in D-10022
 34318-34-8 Apuleirin, in H-10026
 34327-29-2 Montbretol, see M-10088
 34336-18-0 Populin; 3-*O*-Rutinoside, in P-10133
 34425-46-2 Taxifolin; (2*R*,3*R*)-form, 7-Me ether, 3-*O*- β -D-glucopyranoside, in P-10050
 34437-89-3 Operculinic acid, in D-10176
 34482-51-4 Alangaside, A-10037
 34605-38-4 4-Ethylglutamic acid, see E-10201
 34605-39-5 4-Ethylglutamic acid, see E-10201
 34778-57-9 Tridecanoic acid; Amide, in T-10119
 34874-90-3 Methyl haematommate, in F-10015
 35036-48-7 Aerothionin; Homologue, di-Ac, in A-10028
 35042-74-1 7,9-Octadecadiynoic acid; Me ester, in O-10008
 35048-35-2 *N*-Methylisosaloline, in T-10029
 35080-11-6 Ajmaline, see A-10035
 35321-79-0 Paraine, in N-10025
 35321-80-3 Simalikalactone D, S-10064
 35354-29-1 3,5-Dihydroxybenzoic acid; Di-Ac, in D-10110
 35418-59-8 Stearoylarachidonyl-phosphatidylcholine, in O-10010
 35458-21-0 2-Methyl-1-(2,4,6-trihydroxyphenyl)-1-propanone, M-10077
 35534-19-1 α -Methylaminoacetophenone, in A-10055
 35556-70-8 Phosphoenolpyruvic acid; Tris(cyclohexylammonium) salt, in P-10102
 35598-72-2 Picrasinol C, P-10115
 35730-78-0 Cynaropicrin, in D-10175
 35821-02-4 Dehydrocynaropicrin, in D-10175
 35825-57-1 Cryptotanshinone, in E-10132
 35850-13-6 9,11-Dihydroxy-15-oxo-5,13-prostadienoic acid, D-10222
 35897-92-8 Ligustroside, in O-10033
 35897-94-0 10-Hydroxyiligustroside, in O-10033
 35906-41-3 Acaciabiuronic acid; α -Pyranose-form, 1,2,3,4-Di-*O*-isopropylidene, 2',3',4'-tri-Ac, Me ester, in A-10011
 35906-51-5 ▶ Cinerubin B, C-10098
 35923-67-2 Colupdox a, C-10117
 35927-40-3 Lucenin 3, 12*B*-Hydroxymilagenin, in A-10067
 35932-39-9 Saupirin, in D-10175
 35944-18-4 3,9-Acoradiene, see A-10022
 35949-94-1 3-*O*-Methyl- β -D-galactopyranosyl-(1 \rightarrow 4)-3-*O*-methyl- β -D-galactopyranosyl-(1 \rightarrow 4)-L-rhamnose, in G-10010
 35959-05-8 11,12-Dehydrousolic acid lactone, in D-10258
 35959-08-1 3,13-Dihydroxy-11-ursen-28-oic acid; (3 β ,13 β)-form, 20 \rightarrow 13 Lactone, 3-Ac, in D-10258
 36069-45-1 ▶ Muldamine, in E-10206
 36104-64-0 Micranthine, in C-10113
 36136-11-5 Colupox b, in C-10117
 36136-24-0 Huratoxin; 15,16,2',3',4',5'-Hexahydro, in H-10076
 36150-00-2 ▶ 11,15-Dihydroxy-9-oxo-5,13-prostadienoic acid; (5*E*,8*R*,11*R*,12*R*,13*E*,15*S*)-form, in D-10223
 36150-08-0 Dehydrofalcariol, in H-10022
 36150-14-8 Usambarensine, U-10013
 36150-17-1 *N*^b-Methylusambarensine, in U-10013
 36204-28-1 Dimerostemmabrsiolide, in D-10159
 36209-87-7 Ancistrocladine, in A-10083
 36284-37-4 Isocorydine; (\pm)-form, in I-10028
 36417-86-4 *N*-*p*-Coumaroyltyramine, in T-10212
 36418-13-0 1-*O*-Methylpakistanine, in P-10001
 36437-90-8 Ludalbin, in D-10159
 36437-92-0 Isoludalbin, in D-10159
 36450-01-8 6-Hydroxystigmasta-4,22-dien-3-one; (6 β ,22*E*)-form, in H-10226
 36450-03-0 6-Hydroxystigmasta-4,22-dien-3-one; (6 β ,22*E*)-form, Ac, in H-10226
 36473-51-5 Luteolin; Continued-form, 7-*O*-(Rhamnosylglucoside), in T-10052
 36506-65-7 Veralosinine, in E-10206
 36506-69-1 Pakistanine, P-10001
 36614-31-0 Prostaglandin A₃, in H-10212
 36826-66-1 10-Deoxymethymycin, in M-10079
 37064-16-7 Anacycline; (*E*,*Z*)-form, in A-10079
 37239-46-6 Wilforzine, in W-10001
 37239-47-7 Wilforine†; *O*²-Debenzoyl, *O*²-furoyl, in W-10001
 37299-08-4 Eupalmerin acetate, in E-10098
 37337-73-8 α -Soladulcine, in S-10071
 37497-65-7 1,2,3,4-Tetrahydropyridine, T-10031
 37520-44-8 4-Ethylglutamic acid, see E-10201
 37637-24-4 2,6-Diamino-4-oxohexanoic acid; (*S*)-form, B,2HCl, in D-10047
 37704-28-2 Quiesone, in H-10173
 37717-02-5 Asterosapogenin I, in D-10245
 37791-13-2 Aegeline; (\pm)-form, in A-10027
 37905-10-5 β -Pinacene, in C-10045
 37905-11-6 γ -Pinacene, in C-10045
 37971-67-8 3,4',5-Trihydroxy-3',7-dimethoxyflavanone, in P-10050
 38001-86-4 Pyxinol; 3-Ac, in E-10057
 38043-98-0 α -Bisabololone, see H-10090
 38183-03-8 7,8-Dihydroxyflavone, D-10165
 38229-83-3 3,9-Acoradiene, see A-10022
 38243-03-7 (20*R*)-Ginsenoside Rg₃, in D-10011
 38308-89-3 Datisacain, in C-10140
 38310-90-6 11,15-Dihydroxy-9-oxo-5,13-prostadienoic acid; (5*Z*,8*R*,11*S*,12*R*,13*E*,15*S*)-form, in D-10223
 38340-83-9 *N*-Methylanacycline, in A-10079
 38358-51-9 Vitalboside F, in D-10212
 38395-02-7 Caudatin, in P-10059
 38602-52-7 Lasiodonin, in E-10119
 38611-52-8 Hoffmannialdehyde, in E-10046
 38631-44-6 Akebiasaponin B, in D-10212
 38673-26-6 12*B*-Hydroxymilagenin, in S-10099
 38681-06-0 γ -Glutamylalbizziine; L-L-form, in G-10089
 38681-07-1 γ -Glutamylasparagine; L-L-form, in G-10090
 38690-65-2 Taxifolin 4'-glucoside, in P-10050
 38734-62-2 Rauffloricine, in A-10036
 38734-63-3 Nervobscurine, in A-10036
 38736-83-3 Betulafolienetrol B, in D-10008
 38769-07-2 Cycleadrine, in F-10001
 38801-86-4 Picralstonine, in P-10116
 38840-05-0 4-Methyl-2,3'-bipyridine, M-10045
 38840-06-1 4-Methyl-3,3'-bipyridine, M-10046
 38864-21-0 2-Acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 4)-2-acetamido-2-deoxy-D-glucose, in A-10064
 38873-82-4 15(*R*)-Prostaglandin E₂, in D-10223
 38873-84-6 11,15-Dihydroxy-9-oxo-5,13-prostadienoic acid, see D-10223
 38965-75-2 Isoderriecin A, in H-10222
 38991-79-6 Coleon D, in T-10125
 39012-12-9 Grayanotoxin XIV, in G-10129
 39036-23-2 ent-15 α ,16 α -Epoxy-1-beyeranone, in B-10018
 39036-31-2 1-Hydroxy-15-beyeren-2-one; (ent-1 β)-form, in H-10087
 39056-75-2 ent-15-Beyeren-1-one, in B-10018
 39071-33-5 20-Palmitoylgingenol, in I-10012
 39387-36-5 Mollin, in D-10133
 39503-14-5 Ethyl haematommate, in F-10015
 39524-08-8 Hederagenin; 3-*O*- α -L-Arabinopyranoside, [β -D-glucopyranosyl(1 \rightarrow 6)- β -D-glucopyranosyl] ester, in D-10212
 39524-13-5 HN saponin F, in D-10212
 39524-14-6 Akebiasaponin E, in D-10212
 39687-43-9 4-*O*- β -D-Glucopyranosyl-L-rhamnose; α -Pyranose-form, Me glycoside, 2,3-*O*-isopropylidene, tetra-Ac, in G-10072
 39687-44-0 4-*O*- β -D-Glucopyranosyl-L-rhamnose; α -Pyranose-form, Hepta-Ac, in G-10072
 39687-45-1 4-*O*- β -D-Glucopyranosyl-L-rhamnose; α -Pyranose-form, Me glycoside, in G-10072
 39701-94-5 Lanost-8-en-3-ol, see L-10024
 39825-23-5 Bisoricin, in O-10049
 39828-35-8 2,4-Dimethoxybenzoic acid, see D-10265
 39828-36-9 3,5-Dimethoxy-2-methylphenol, in M-10043

- 39844-95-6 16-Desacetylcinobufaginol, in E-10155
- 39871-25-5 2,6-Diamino-4-hexenoic acid; (\pm)-(*E*)-form, in D-10046
- 39946-41-3 Periplocoside N, in P-10140
- 40042-04-4 *cis*-Dihydronarciclasine, in N-10004
- 40042-05-5 *trans*-Dihydronarciclasine, in N-10004
- 40072-63-7 6 β -Angeloyloxyeuryopsin, in F-10033
- 40072-64-8 1,10-Epoxyfuranoeremophilan-6-ol; (1 α ,6 β ,10 α)-form, 6-Angeloyl, in E-10087
- 40072-65-9 1,10-Epoxyfuranoeremophilan-6-ol; (1 α ,6 β ,10 α)-form, 6-Ac, in E-10087
- 40112-23-0 \blacktriangleright Gossypol; (\pm)-form, in G-10113
- 40158-93-8 Erucifoline, see E-10189
- 40158-95-0 Erucifoline, E-10189
- 40165-88-6 3-Hydroxyundecanoic acid, H-10241
- 40225-93-2 *O*-Methylmicranthine, in C-10113
- 40522-81-4 Trichodiol, in T-10112
- 40525-07-3 4-*O*- β -D-Glucopyranosyl-L-rhamnose, G-10072
- 40768-50-1 7,20-Epoxy-16-kaurene-1,6,7,11,15-pentol; (*ent*-1 β ,6 α ,11 β ,15 α)-form, in E-10119
- 40819-93-0 Lorajimine hydrochloride, in A-10035
- 40856-73-3 5-Methyl-2,4-imidazolidinedione; (*S*)-form, in M-10065
- 40951-67-5 3-Oxykoaburagenin, in T-10147
- 40957-99-1 Medioresinol; (+)-form, in M-10024
- 40983-69-5 α -D-Glucopyranosyl-(1 \rightarrow 2)- α -D-glucopyranosyl-(1 \rightarrow 6)-D-glucose, G-10047
- 40983-70-8 α -D-Glucopyranosyl-(1 \rightarrow 6)- α -D-glucopyranosyl-(1 \rightarrow 2)-D-glucose, G-10055
- 40983-71-9 α -D-Glucopyranosyl-(1 \rightarrow 2)-[α -D-glucopyranosyl-(1 \rightarrow 6)]-D-glucose, G-10046
- 41221-65-2 4-Decenedioic acid; *Z*-form, in D-10026
- 41263-94-9 α -L-Fucopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 4)-D-glucose, F-10024
- 41370-35-8 Methyl 6 α ,7 β -diacetoxy-14-hydroxyvinhatocate, in T-10196
- 41370-37-0 12,16-Dihydro-6,7,12,14-tetrahydroxy-16-oxovinhatocic acid; (6 α ,7 β ,12 ξ ,14 β)-form, 6,7-Di-Ac, Me ester, in D-10103
- 41397-71-1 3-(2-Methylphenyl)-2-propenoic acid; (*Z*)-form, in M-10068
- 41410-57-5 Shikokianidin, in E-10119
- 41478-10-8 Bicolorine, B-10021
- 41628-29-9 Uzarinigen; 3-*O*- β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranoside], in U-10020
- 41645-62-9 Excelsine \dagger , in M-10089
- 41653-78-5 Ridentin B, in D-10158
- 41661-47-6 4-Piperidinone, P-10119
- 41666-57-3 Roccellin, in D-10133
- 41666-58-4 Galapagin, in D-10254
- 41682-21-7 8-Methylugenitol, D-10254
- 41690-67-9 Jaeschkeanadiol, in D-10019
- 41696-97-3 3,5-Dihydroxybenzoic acid, see D-10110
- 41702-76-5 1,10-Epoxyfuranoeremophilan-6-ol; (1 β ,6 β ,10 β)-form, in E-10087
- 41710-20-7 Bicoloridine, in B-10021
- 41743-44-6 Ferutinin, in D-10019
- 41744-35-8 Ferutin, in D-10019
- 41753-43-9 \blacktriangleright Ginsenoside R₁₁, in D-10011
- 41753-51-9 Gerberacoumarin, in H-10176
- 41753-54-2 Holocalin, in H-10166
- 41777-08-6 2,4-Dihydroxybenzaldehyde; Di-Ac, in D-10109
- 41849-35-8 Aconifine, A-10021
- 41859-54-5 *N*-Benzoyltyramine, in T-10212
- 41929-09-3 Senemorin, in E-10087
- 41929-11-7 Archangelolide, in T-10053
- 41943-01-5 Glabretol, G-10036
- 41979-39-9 4-Piperidinone; B,HCl, in P-10119
- 42320-87-6 Norswertianine; 8-*O*- β -D-Glucopyranoside, in T-10073
- 42415-56-5 1,2,3,4-Eicosanetetrol, E-10008
- 42438-76-6 Nardofuran, N-10005
- 42541-62-8 2',6'-Dihydroxy-4'-methoxy-2-methylpropiofenone, in M-10077
- 42719-36-8 Malkanguniol, in T-10043
- 42907-15-3 6-Acetyldeipheline, in D-10033
- 42998-61-8 2-Methyl-4-oxopentanedioic acid, see M-10067
- 43228-53-1 5(2*H*)-Isoxazolone, in I-10058
- 46798-86-1 1,2,3,4,6,7,12,12*b*-Octahydroindolo[2,3-*a*]quinolizine; (\pm)-form, in O-10013
- 46862-63-9 Leontalbinine, L-10040
- 47562-08-3 Lorajimine, in A-10035
- 47751-20-2 β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-(1 \rightarrow 3)-D-glucose; β -Pyranose-form, in G-10065
- 47763-23-5 Demethylalaglsidie, in A-10037
- 50265-58-2 Dictyoptalene B, H-10048
- 50265-65-1 6-(1-Propenyl)-1,4-cycloheptadiene; (\pm)-(*E*)-form, in P-10152
- 50267-11-3 3,8,11-Trioxatetracyclo[4.4.1.0^{2,4}.0^{7,9}]undecane; (1 α ,2 α ,4 α ,6 α ,7 β ,9 β)-form, in T-10202
- 50267-13-5 3,8,11-Trioxatetracyclo[4.4.1.0^{2,4}.0^{7,9}]undecane; (1 α ,2 β ,4 β ,6 α ,7 β ,9 β)-form, in T-10202
- 50277-34-4 β -Calacorene, C-10011
- 50373-53-0 Lavandulol; (*S*)-form, in L-10033
- 50376-39-1 Colletoketol, in C-10115
- 50376-40-4 Colletol, in C-10115
- 50376-41-5 Colletalol, in C-10115
- 50439-72-0 4-Ketocapsanthin, in L-10053
- 50627-73-1 Ursolic acid; 3-(4-Hydroxycinnamoyl), in H-10242
- 50656-68-3 Tingenin B, in T-10091
- 50657-20-0 Agerol, in G-10027
- 50675-78-0 Genkwaniin; 5-*O*-[α -D-Xylopyranosyl(1 \rightarrow 6)- β -D-glucopyranoside], in D-10195
- 50683-78-8 12-Hydroxy-5,8,10-heptadecatrienoic acid, H-10159
- 50692-51-8 4-*O*- α -D-Glucopyranuronosyl-L-galactose, G-10080
- 50692-76-7 β -D-Mannopyranosyl-(1 \rightarrow 4)- β -D-mannopyranosyl-(1 \rightarrow 4)-D-glucose, M-10014
- 50692-77-8 β -D-Mannopyranosyl-(1 \rightarrow 4)- β -D-glucopyranosyl-(1 \rightarrow 4)-D-glucose, M-10012
- 50773-30-3 2-(2,4-Dihydroxyphenyl)-8,8-dimethyl-10-(3-methyl-2-butenyl)-8*H*-pyrano[2,3-*d*]chroman-4-one; (*S*)-form, in D-10234
- 50802-21-6 \blacktriangleright Tingenin A, T-10091
- 50816-68-7 Lobodirin, in D-10134
- 50867-30-6 Tricin; 7-*O*-Diglucoside, in T-10140
- 50908-96-8 Dopamine 3-*O*-glucoside, in D-10305
- 50999-79-6 1-Octen-3-ol, see O-10016
- 51019-46-6 Ajmaline; 2-Epimer, in A-10035
- 51116-90-6 12,20-Dihydroxydammar-24-en-3-one, in D-10011
- 51411-23-5 1-*O*- α -D-Glucopyranosyl-D-fructose, G-10043
- 51529-11-4 β -Sitosterone, S-10125
- 51550-01-7 Escholinine, in R-10041
- 51581-00-1 2- β -D-Glucopyranosyl-3-isoxazolone-5-one, in I-10058
- 51759-76-3 Chymostatin A, in C-10096
- 51759-77-4 Chymostatin B, in C-10096
- 51759-78-5 Chymostatin C, in C-10096
- 51787-38-3 Coleon K, in T-10125
- 51787-39-4 Coleon I, in T-10125
- 51847-86-0 Ingol, I-10013
- 51847-95-1 Isoandroginin A, in S-10102
- 51906-02-6 Ingol; Tetra-Ac, in I-10013
- 51918-96-8 Isoandroginin B, in S-10102
- 52100-63-7 2-(2,4-Dihydroxyphenyl)-8,8-dimethyl-10-(3-methyl-2-butenyl)-8*H*-pyrano[2,3-*d*]chroman-4-one, D-10234
- 52151-92-5 Piperitol \ddagger ; (+)-form, in P-10120
- 52187-80-1 Luteolin; 3',7-Di-*O*-glucopyranoside, in T-10052
- 52238-31-0 1,2,3,4,6-Pentagalloylglucose, see P-10035
- 52239-68-6 Eupalmerin, in E-10098
- 52250-35-8 2',3',4',7'-Tetrahydroxyisoflavan, see T-10054
- 52267-15-9 1,5-Diphenyl-1,4-pentadiene, D-10296
- 52286-58-5 Ginsenoside R₁, in D-10009
- 52286-59-6 Ginsenoside B₂, in D-10009
- 52305-06-3 Laxifloran, in T-10054
- 52475-25-9 20-Hydroxytingenone, in T-10091
- 52541-74-9 1,2,5-Trimethoxy-6-methylanthraquinone, in T-10160
- 52554-59-3 Acaciabiuronic acid; α -Pyranose-form, in A-10011
- 52554-60-6 Acaciabiuronic acid; β -Pyranose-form, in A-10011
- 52554-63-9 2-*O*- β -D-Glucopyranuronosyl-D-mannose, see G-10083
- 52554-64-0 2-*O*- β -D-Glucopyranuronosyl-D-mannose, see G-10083
- 52557-26-3 \blacktriangleright 3-Hexadecanoylgingenol, in I-10012
- 52557-27-4 Euphorbia factor I₅, in I-10012
- 52557-28-5 Ingenol, see I-10012
- 52602-16-1 2-Acetoxybenzoic acid; Butyl ester, in A-10014
- 52657-01-9 Multiflorin B, in A-10030
- 52658-32-9 Celapanine, in T-10042
- 52691-06-2 Malkangunin, in T-10043
- 52691-07-3 Celapanigine, in T-10042
- 52705-93-8 Ginsenoside R₃, in D-10011
- 52714-82-6 Luteolin; 7-*O*-[α -L-Arabinopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], in T-10052
- 52714-84-8 Luteolin; 4'-*O*- β -D-Glucofuranoside, 7-*O*-[α -L-Arabinofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], in T-10052
- 52718-05-5 Lasiokaurinol, in E-10120
- 52811-25-3 Amaroparin, in S-10135
- 52844-27-6 Colupdol, C-10116
- 52883-78-0 4-Methyl-4-hexen-3-one, M-10063
- 52886-04-1 Multifidene; (3*S*,4*S*)-(Z)-form, in B-10053
- 52936-89-7 Euscaphic acid; Me ester, in T-10194
- 53091-74-0 Ekersenin, in H-10176
- 53095-34-4 Celsiogenin A, C-10044
- 53111-19-6 *N,O,O*-Trimethylstephanine, in S-10116
- 53123-88-9 \blacktriangleright Rapamycin, R-10007
- 53152-14-0 Isonoeovroside, in N-10012
- 53152-15-1 Isonoevitexin, in N-10023
- 53155-25-2 Euscaphic acid, in T-10194
- 53171-10-1 Gentiabavarside, in T-10073
- 53171-11-2 Isogentiakochianoside, in T-10073
- 53171-13-4 Norswertiaprimeveroside, in T-10073
- 53258-99-4 Ovaliflavanone B, H-10222
- 53313-95-4 2-Hydroxy-2-(3-hydroxyphenyl)acetic acid; (\pm)-form, Nitrile, in H-10166
- 53447-14-6 Isocorypalmine; (*R*)-form, in I-10029
- 53492-07-2 3,21-Dihydroxy-12-oleanen-28-oic acid; (3 β ,21 α)-form, in D-10211

53527-41-6	Luteolin; 3',4'-Di-O-glucuronoside, <i>in</i> T-10052	54382-91-1	Ancistrocladonine, A-10084	55601-64-4	2-Methyl-4-oxopentanedioic acid, M-10067
53527-42-7	Luteolin; 3'-O-β-D-Glucuronoside, <i>in</i> T-10052	54382-93-3	Ancistroelaensine, <i>in</i> A-10083	55601-65-5	2-Oxo-4-methylenepentanedioic acid, O-10059
53527-43-8	Luteolin; 4'-O-β-D-Glucuronoside, <i>in</i> T-10052	54387-74-5	Deoxydelcorine, <i>in</i> N-10052	55610-02-1	Cepharadione B, C-10063
53586-30-4	Grandiflorolic acid; 3-Methyl-2-butenoyl, <i>in</i> H-10170	54397-84-1	12-Hydroxy-5,8,10-heptadecatrienoic acid; (5Z,8E,10E,12S)- <i>form</i> , <i>in</i> H-10159	55612-66-3	2-Acetamido-2-deoxy-β-D-glucopyranosyl-(1→3)[2-acetamido-2-deoxy-β-D-glucopyranosyl-(1→6)]-D-glucose, <i>in</i> A-10065
53586-31-5	Grandiflorolic acid; Tigloyl, <i>in</i> H-10170	54397-85-2	Thromboxane B ₂ , T-10086	55716-00-2	1,3-Dibromo-1-chloro-2-propanone, D-10053
53662-98-9	Dehydrobruceantin, <i>in</i> D-10029	54526-94-2	Steffimycin B, <i>in</i> S-10109	55716-01-3	1,1,3-Tribromo-3-chloro-2-propanone, T-10105
53663-00-6	Dehydrobruceantarol, <i>in</i> D-10029	54526-95-3	Teferin, <i>in</i> D-10019	55740-45-9	Glycoperine, <i>in</i> H-10002
53663-02-8	Dehydrobruceantin, <i>in</i> D-10029	54526-95-3	Teferin, <i>in</i> D-10019	55747-68-7	5-Methyl-2,4-imidazolidinedione, <i>see</i> M-10065
53696-23-4	4-Methylhexadecanoic acid, M-10061	54557-66-3	Trifolint; 7-O-β-D-Galactopyranoside, <i>in</i> T-10123	55781-50-5	3,9-Acoradiene, A-10022
53730-90-8	Dehydrobrucein B, <i>in</i> D-10029	54563-85-8	Cerebronic acid, <i>see</i> H-10229	55785-60-9	Melampyroside, M-10026
53755-58-1	Drupanin, D-10311	54563-86-9	Cerebronic acid, <i>see</i> H-10229	55812-91-4	Dihydroisorhamnetin, <i>in</i> P-10050
53766-40-8	Tricin; 7-O-Neohesperidoside, <i>in</i> T-10140	54563-87-0	Cerebronic acid, <i>see</i> H-10229	55890-21-6	3,12-Clerodadiene-15,16-dial, <i>in</i> C-10101
53766-43-1	5,6-Dihydroxy-1(3H)-isobenzofuranone, D-10182	54563-88-1	Cerebronic acid, <i>see</i> H-10229	55897-77-3	Thornasterol A, <i>in</i> T-10135
53781-47-8	3,12-Dihydroxyhexadecanoic acid; Me ester, <i>in</i> D-10176	54706-97-7	Euphorbia factor P ₂ , <i>in</i> I-10012	55969-56-7	Cryptochrysin, D-10201
53796-85-3	10,11-Dimethoxyisomitraphylline, <i>in</i> M-10082	54706-99-9	20-Deoxyingenol, <i>in</i> I-10012	56064-70-1	α-Liriodenolide, <i>in</i> D-10159
53820-27-2	4,6-Dihydroxyfuranooeromophilan-9-one; (4α,6β,10αH)- <i>form</i> , 6-Angeloyl, <i>in</i> D-10169	54707-47-0	4(15),7(11)-Eudesmadien-8-one, E-10213	56283-67-1	Lucernic acid, L-10068
53820-31-8	4,6-Dihydroxyfuranooeromophilan-9-one; (4α,6β,10αH)- <i>form</i> , 6-(Methylpropanoyl), <i>in</i> D-10169	54815-36-0	Jujubogenin, J-10007	56316-76-8	15-Hydroxyklaineaneone, <i>in</i> K-10013
53820-42-1	4,6-Dihydroxyfuranooeromophilan-9-one; (4α,6β,10αH)- <i>form</i> , 6-Tigloyl, <i>in</i> D-10169	54835-63-1	2,3,9-Trihydroxy-14-cadalenal, T-10133	56317-12-5	Luteolin; 3'-O-β-D-Galacturonoside, <i>in</i> T-10052
53820-45-4	6-Hydroxyfuranooeromophilan-9-one; (6β,10βH)- <i>form</i> , O-Methylpropanoyl, <i>in</i> H-10148	54835-76-6	Gardoside, G-10020	56317-13-6	Luteolin; 3',7-Di-O-galacturonoside, <i>in</i> T-10052
53820-51-2	3,6-Dihydroxyfuranooeromophilan-1(10)-en-9-one; (3β,6β)- <i>form</i> , 6-Angeloyl, <i>in</i> D-10170	54928-04-0	Jatamansic acid, <i>in</i> G-10130	56317-14-7	Luteolin; 3',4'-Di-O-galacturonoside, <i>in</i> T-10052
53820-53-4	Lateriflorol, <i>in</i> E-10170	54963-52-9	Pirolonic acid, <i>in</i> T-10194	56317-17-0	7-Angelylheliotrine, <i>in</i> L-10032
53820-70-5	3,6-Dihydroxyfuranooeromophilan-1(10)-en-9-one; (3β,6β)- <i>form</i> , 3,6-Bis(methylpropanoyl), <i>in</i> D-10170	54963-57-4	2,3,19-Trihydroxy-12-ursen-28-oic acid, <i>see</i> T-10194	56324-53-9	Luteolin; 7-O-β-D-Galacturonoside, <i>in</i> T-10052
53823-10-2	Trifloroside, <i>in</i> S-10135	54983-95-8	Xanthoxylol, <i>in</i> P-10120	56499-30-0	Sphaerosin, <i>in</i> T-10054
53823-12-4	Yokonoside, Y-10002	54983-96-9	Piperitol; (-)- <i>form</i> , <i>in</i> P-10120	56523-61-6	N ² -γ-Glutamylornithine; L-L- <i>form</i> , <i>in</i> G-10095
53823-13-5	Scillicyanogenin, <i>in</i> T-10176	54985-16-9	Luteolin, <i>see</i> T-10052	56586-60-8	3-Episiaresinolic acid, <i>in</i> D-10210
53840-03-2	Agerol diepoxide, <i>in</i> G-10027	55018-78-5	3-O-β-D-Glucopyranosyl-L-rhamnose; α-Pyranose- <i>form</i> , Benzyl glycoside, <i>in</i> G-10071	56596-12-4	Stephodeline, <i>in</i> T-10002
53859-06-6	Deoxonarchinal A, <i>in</i> H-10236	55018-80-9	2-O-β-D-Glucopyranosyl-L-rhamnose; α-Pyranose- <i>form</i> , Benzyl glycoside, <i>in</i> G-10070	56679-19-7	Acanthospermal B, <i>in</i> T-10178
53915-26-7	Albine, A-10039	55018-83-2	2-O-β-D-Glucopyranosyl-L-rhamnose, G-10070	56691-94-2	Tomentosin, <i>in</i> P-10138
53915-37-0	Sinapoylerysimoside, <i>in</i> T-10177	55018-84-3	3-O-β-D-Glucopyranosyl-L-rhamnose, G-10071	56691-96-4	Deacetylomentosin, <i>in</i> P-10138
53947-82-3	Ferutidin, <i>in</i> D-10132	55029-37-3	Prostaglandin F-M, <i>see</i> P-10154	56768-36-6	Sibiricoside D, <i>in</i> T-10066
53948-09-7	Aristolactam BII, A-10121	55030-23-4	N-2-Phenylethylcinnamamide, P-10098	56768-37-7	Sibiricoside E, <i>in</i> T-10066
53963-43-2	Ginsenoside F ₁ , <i>in</i> D-10009	55050-49-2	1β,10β-Epoxy-6β-(2-methylacryloyloxy) furanoeromophilane, <i>in</i> E-10087	56857-57-9	Luteolin; 7-O-Sulfate, <i>in</i> T-10052
53965-08-5	Luteolin; 3',7-Di-O-glucuronoside, <i>in</i> T-10052	55050-50-5	1β,10β-Epoxy-6β-senecionyl-oxyfuranooeromophilane, <i>in</i> E-10087	56973-19-4	Ursolic acid; Ac, 4-methoxybenzyl ester, <i>in</i> H-10242
53965-09-6	Luteolin; 4',7-Di-O-glucuronoside, <i>in</i> T-10052	55050-52-7	6-Hydroxyfuranooeromophilan-9-one; (6β,10αH)- <i>form</i> , 3-Methylbutanoyl, <i>in</i> H-10148	56973-20-7	Ursolic acid; Ac, 2-methoxybenzyl ester, <i>in</i> H-10242
53965-10-9	Luteolin; 3',4',7-Tri-O-glucuronoside, <i>in</i> T-10052	55069-02-8	Fenugreekine, F-10002	57062-90-5	Okanin, <i>see</i> P-10040
53987-20-5	2-(β-Glutaminylaminoethyl)-3-isoxazolin-5-one, <i>in</i> I-10058	55136-76-0	Populin; 3-O-Sophoroside, <i>in</i> P-10133	57077-54-0	1,8-Dihydroxy-3-(hydroxymethyl)-9(10H)-anthracenone, <i>see</i> D-10179
53987-94-3	3,6-Dihydroxyfuranooeromophilan-1(10)-en-9-one; (3β,6β)- <i>form</i> , 6-(Methylpropanoyl), <i>in</i> D-10170	55177-32-7	α-D-Glucopyranosyl-(1→6)-α-D-glucopyranosyl-(1→2)-D-glucose, <i>see</i> G-10055	57077-55-1	Rheinanthrone, <i>see</i> D-10094
54003-18-8	Rheinanthrone; O-Glucoside, <i>in</i> D-10094	55301-58-1	2-Hydroxy-3-(4-hydroxyphenyl) propanoic acid; (±)- <i>form</i> , 4'-Me ether, Me ester, <i>in</i> H-10167	57077-57-3	Rheinanthrone; O-Diglucoside, <i>in</i> D-10094
54003-19-9	1,8-Dihydroxy-3-(hydroxymethyl)-9(10H)-anthracenone; O-Glucoside, <i>in</i> D-10179	55303-92-9	Penicillide, P-10025	57077-59-5	1,8-Dihydroxy-3-(hydroxymethyl)-9(10H)-anthracenone; O-Diglucoside, <i>in</i> D-10179
54019-50-0	2-(2-Aminoethyl)-3-isoxazolin-5-one, <i>in</i> I-10058	55313-03-6	2,2',4',6'-Tetrahydroxyacetophenone, T-10035	57420-45-8	Acetylbarlerin, <i>in</i> S-10057
54081-47-9	Neostilbin, <i>in</i> P-10050	55337-75-2	1,3-Dithiane; 1,1-Dioxide, <i>in</i> D-10298	57420-46-9	Barlerin, <i>in</i> S-10057
54081-48-0	Neoisostilbin, <i>in</i> P-10050	55337-76-3	1,3-Dithiane; <i>cis</i> -1,3-Dioxide, <i>in</i> D-10298	57439-17-5	Haematommic acid, <i>see</i> F-10015
54141-72-9	Isoastilbin, <i>in</i> P-10050	55382-24-6	5-Methoxy-4-methyl-1,3-benzenediol, <i>in</i> M-10043	57499-02-2	Quaternine, <i>in</i> P-10116
54244-36-9	Desacetylgentiavarutinoside, <i>in</i> T-10073	55466-01-8	Hovenoside G, <i>in</i> J-10007	57515-71-6	Quaternidine, <i>in</i> P-10116
54293-58-2	Sevanine, S-10055	55466-04-1	Jujuboside A, <i>in</i> J-10007	57538-10-0	Acetylasiocarpine, <i>in</i> L-10032
54302-42-0	Gossypol; (±)- <i>form</i> , 6-Me ether, <i>in</i> G-10113	55466-05-2	Jujuboside B, <i>in</i> J-10007	57539-70-5	Cussonoside A, <i>in</i> D-10212
54352-70-4	Coccoline; (+)- <i>form</i> , <i>in</i> C-10113	55483-02-8	Alectorialin, A-10041	57566-99-1	Perforenone A, <i>in</i> P-10078
54352-71-5	O-Methylcoccoline, <i>in</i> C-10113	55517-90-3	1-Pentatriacontanol, P-10068	57567-00-7	Perforenone B, <i>in</i> P-10078
		55528-27-3	3-Oxovincadifformine, <i>in</i> V-10022	57576-41-7	Norcepharadione B, <i>in</i> C-10063
				57672-63-6	Excoecaria factor A ₁ , <i>in</i> E-10202
				57672-64-7	20-Hexadecanoylhuratoxin, <i>in</i> H-10076
				57672-65-8	20-Octadecanoylhuratoxin, <i>in</i> H-10076
				57672-66-9	20-Eicosanoylhuratoxin, <i>in</i> H-10076
				57672-67-0	20-Docosanoylhuratoxin, <i>in</i> H-10076
				57672-68-1	20-Tetracosanoylhuratoxin, <i>in</i> H-10076

57672-69-2	20-Hexacosanoylhuratoxin, <i>in</i> H-10076	59740-27-1	Grayanotoxin XVII, <i>in</i> G-10129	61490-80-0	Genkwanin; 4'- <i>O</i> - β -D-Galactopyranoside, <i>in</i> D-10195	
57672-79-4	Baccatin VI, <i>in</i> E-10148	59742-00-6	6-Hydroxyfuranooeremophilan-9-one; (6 β ,10 α H)-form, 3-Methylpentanoyl, <i>in</i> H-10148	61548-34-3	Verbasoside, <i>in</i> D-10235	
57672-80-7	Baccatin VII, <i>in</i> E-10148			61575-03-9	1,1'-[1,12-Dodecanediylbis(oxy)]bisbenzene, <i>in</i> D-10302	
57799-95-8	10-Acetoxyglugstroside, <i>in</i> O-10033	59742-01-7	6-Hydroxyfuranooeremophilan-9-one; (6 β ,10 α H)-form, 3-Methyl-2-pentanoyl, <i>in</i> H-10148	61597-83-9	13-Hydroxy-8,11,13-podocarpatrien-18-oic acid, H-10220	
57800-02-9	10-Methoxyvincamajine, <i>in</i> V-10023				61618-93-7	Tomentin, <i>in</i> P-10138
57800-03-0	3,4,5-Trimethoxycinnamoyl- <i>in</i> vincamajine, <i>in</i> V-10023	59742-08-4	6-Hydroxyfuranooeremophilan-9-one; (6 β ,10 α H)-form, 3-Methyl-2-butenoyl, <i>in</i> H-10148	61637-54-5	6-Deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)- α -D-glucopyranosyl-(1 \rightarrow 4)-D-glucose, D-10040	
57800-04-1	(3,4,5-Trimethoxycinnamoyl)-10-methoxyvincamajine, <i>in</i> V-10023	59785-75-0	Naufoline, N-10010			
57800-05-2	10-Hydroxy- <i>O</i> ¹⁷ -(3,4,5-trimethoxybenzoyl)vincamajine, <i>in</i> V-10023	59806-48-3	3,6-Dihydroxyfuranooeremophilan-9-one, <i>see</i> D-10168	61667-46-7	Microlepin, <i>in</i> K-10005	
57808-41-0	10-Hydroxy- <i>O</i> ¹⁷ -(3,4,5-trimethoxycinnamoyl)vincamajine, <i>in</i> V-10023	59812-41-8	Celorbicol, <i>in</i> T-10139	61854-35-1	5,7-Dihydroxy-2-(4-methoxyphenoxy)-4 <i>H</i> -1-benzopyran-4-one, <i>in</i> T-10132	
57847-74-2	Steffimycinone, <i>in</i> S-10109	59812-47-4	Isocelorbicol, <i>in</i> T-10138			
57932-72-6	Coleon I', <i>in</i> T-10125	59812-48-5	Isocelorbicol; 1- <i>E</i> -Cinnamoyl, 2,9-di-Ac, <i>in</i> T-10138	61854-36-2	Demethoxycapillarisin, <i>in</i> T-10132	
57943-41-6	Tomentin†, <i>in</i> P-10138	59846-31-0	Willicourtine, <i>in</i> A-10035	61877-94-9	β -Solanine, <i>in</i> S-10079	
58074-71-8	Celapagine, <i>in</i> T-10042	59859-94-8	Rastronol A, <i>in</i> T-10059	62003-89-8	Aplysistatin, A-10109	
58207-93-5	1,2-Dehydromicranthine, <i>in</i> C-10113	59905-64-5	β -D-Glucopyranosyl-(1 \rightarrow 4)- β -D-mannopyranosyl-(1 \rightarrow 4)-D-glucose, G-10067	62025-49-4	Ginsenoside F ₂ , <i>in</i> D-10011	
58274-01-4	α -D-Glucopyranosyl-(1 \rightarrow 4)- α -D-glucopyranosyl-(1 \rightarrow 2)-D-glucose, G-10052	59938-97-5	Quassamarin, <i>in</i> S-10064	62025-50-7	Ginsenoside F ₃ , <i>in</i> D-10009	
58274-19-4	Sinapoylglucoerysimoside, <i>in</i> T-10177	59983-76-5	Rhynchophorol; (<i>R</i>)-(<i>Z</i>)-form, <i>in</i> M-10058	62083-53-8	Littorine, <i>see</i> L-10056	
58344-18-6	Songaroside B, <i>in</i> D-10212	59983-79-8	Rhynchophorol; (<i>S</i>)-(<i>E</i>)-form, <i>in</i> M-10058	62107-18-0	9,11-Dihydroxy-15-oxothrombox-5-en-1-oic acid, <i>in</i> T-10086	
58407-69-5	Odoroside B, <i>in</i> U-10020	59995-79-8	21 α -Hydroxy-4(23)-friedelen-3-one, <i>in</i> F-10021	62218-13-7	α -Viniferin, V-10025	
58480-57-2	Haplatine, <i>in</i> H-10002	60031-90-5	<i>N</i> -Acetylamilobine, <i>in</i> A-10132	62247-46-5	1-Octen-3-ol; (<i>S</i>)-form, <i>in</i> O-10016	
58596-45-5	4-Hydroxy-2,3-dimethylquinoline, H-10114	60033-08-1	Teferidine, <i>in</i> D-10019	62332-64-3	4-Methyl-4-hexen-3-one; (<i>E</i>)-form, <i>in</i> M-10063	
58605-10-0	3,5-Dihydroxybenzoic acid; Dibenzyl ether, Me ester, <i>in</i> D-10110	60064-95-1	α -Agarofuran; 3 β ,4 β -Epoxide, <i>in</i> A-10031	62332-65-4	2,4-Dimethyl-2,4-hexadienal, <i>in</i> D-10275	
58648-76-3	16,17,19-Kauranetriol; (<i>ent</i> -16 β OH)-form, <i>in</i> K-10005	60077-59-0	7-Methoxy-2-phenyl-4 <i>H</i> -furo[2,3- <i>f</i>][1]benzopyran-9-one, <i>in</i> H-10216	62332-66-5	2,4-Dimethyl-2,4-hexadien-1-ol; (<i>E,E</i>)-form, <i>in</i> D-10275	
58699-70-0	Leucovernide, <i>in</i> P-10133	60089-74-9	Gossyvertin, <i>in</i> T-10133	62332-67-6	2,4-Dimethyl-2,4-heptadien-1-ol; (<i>E,E</i>)-form, <i>in</i> D-10274	
58738-34-4	Ancistrocladeine, <i>in</i> A-10083	60129-63-7	Paniculose I, <i>in</i> H-10170	62359-60-8	Lappaol B, L-10028	
58795-16-7	Tricin; 4'- <i>O</i> -Glucopyranoside, 7- <i>O</i> -rutinoside, <i>in</i> T-10140	60195-67-7	Gnidilatin 20-palmitate, <i>in</i> G-10107	62421-19-6	Norswertianine; 6,8-Di- <i>O</i> - β -D-glucopyranoside, <i>in</i> T-10073	
58798-49-5	Tricin; 7- <i>O</i> -(<i>D</i> -Fructosyl-D-glucoside), <i>in</i> T-10140	60195-69-9	Gnidilatin, G-10107	62536-78-1	2',7-Dimethoxyflavone, <i>in</i> D-10164	
58840-32-7	3',5',5'-Trihydroxy-3,4',6,7-tetramethoxyflavone, <i>in</i> H-10026	60197-59-3	Hyrceanonol, <i>in</i> T-10129	62697-50-1	α -Bisabololone, H-10090	
58970-77-7	Luteolin; 3',4'-Di- <i>O</i> -rhamnoside, 7- <i>O</i> -glucuronoside, <i>in</i> T-10052	60197-59-3	Lycoflavonol, T-10067	62770-38-1	Gossypol, <i>see</i> G-10113	
58970-80-2	Luteolin; 4'- <i>O</i> -Rhamnoside, 7- <i>O</i> -glucuronoside, <i>in</i> T-10052	60197-60-6	Hederagenin; 3- <i>O</i> - β -D-Xylopyranosyl(1 \rightarrow 3)- α -L-arabinopyranoside], <i>in</i> D-10212	62794-01-8	Azfelin; <i>O</i> ⁶ -Sulfate, <i>in</i> A-10030	
58989-67-6	Songaroside B', <i>in</i> D-10212	60213-68-5	Hederagenin; 3- <i>O</i> - β -D-Xylopyranosyl(1 \rightarrow 3)- α -L-arabinopyranoside], <i>in</i> D-10212	62804-16-4	Luteolin, <i>see</i> T-10052	
59015-79-1	Strebloside, <i>in</i> T-10177	60223-97-4	Pacinine, <i>in</i> D-10033	62823-65-8	Geosmin, <i>see</i> G-10025	
59048-81-6	Ergost-24(28)-ene-3,5,6-triol; (3 β ,5 α ,6 β)-form, <i>in</i> E-10188	60310-03-4	2-Acetoxybenzoic acid; Propyl ester, <i>in</i> A-10014	62868-04-6	Ovalichromene A†, O-10050	
59112-65-1	Papyrioxide L IIa, <i>in</i> H-10119	60354-05-4	Norswertianine; 2,6-Di-Me ether, 8- <i>O</i> -primeveroside, <i>in</i> T-10073	62868-06-8	Ovalichromene B, <i>in</i> O-10050	
59176-61-3	Luteolin; 3'- <i>O</i> -Sulfate, <i>in</i> T-10052	60355-68-2	Luteolin; 7- <i>O</i> -(6- <i>O</i> -Acetyl- β -D-glucopyranoside), <i>in</i> T-10052	62868-75-1	Austroinulin, <i>in</i> L-10008	
59176-62-4	Luteolin; 3',7-Di- <i>O</i> -sulfate, <i>in</i> T-10052	60368-18-5	11-Hydroxyhexadecanoic acid; (<i>S</i>)-form, Me ester, <i>in</i> H-10160	62874-82-2	1-Bromo-1,3,3-trichloro-2-propanone, B-10047	
59193-73-6	Centapicrin, <i>in</i> S-10135	60450-21-7	Morindin, <i>in</i> T-10160	62874-83-3	1,1-Dibromo-3,3-dichloro-2-propanone, D-10054	
59227-98-4	1-Bromo-3-iodo-2-propanone, B-10046	60454-64-0	Cephalaroside C, C-10062	62874-84-4	1,3-Dibromo-1,3-dichloro-2-propanone, D-10055	
59227-99-5	1,1-Dibromo-3-iodo-2-propanone, D-10056	60604-88-8	Fumaritine N-oxide, <i>in</i> F-10027	62875-16-5	Cyclosiwetenol, C-10171	
59252-86-7	Chikusetsusaponin Ia, <i>in</i> D-10011	60768-30-1	6- <i>O</i> -Digalloyl-1,2,3,4-tetra- <i>O</i> -galloyl- β -D-glucopyranose, <i>in</i> P-10035	62897-09-0	2-Acetamido-2-deoxy- α -D-galactopyranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 4)-2-acetamido-2-deoxy-D-glucose, <i>in</i> A-10062	
59263-72-8	2',4',6'-Trihydroxyacetophenone; 2',4'-Di-Me ether, Ac, <i>in</i> T-10129	60824-93-3	8-Oxo- β -cyperone, E-10211	62948-60-1	1-Hydroxy-1(10),4,11(13)-germacatrien-12,6-olide; (1(10)Z,2 α ,4Z,6 α)-form, <i>in</i> H-10153	
59324-11-7	2-Methyl-1,3-oxathiane, <i>see</i> M-10066	60889-07-8	Luteolin; 4'- <i>O</i> -Sulfate, <i>in</i> T-10052	62961-57-3	5,6,7,8-Tetrahydrobiopterin, <i>see</i> T-10025	
59331-36-1	15-Cupressen-19-oic acid, C-10148	61014-18-4	25- <i>O</i> -Acetylbroamaride, <i>in</i> C-10140	62989-33-7	5,6,7,8-Tetrahydrobiopterin, <i>see</i> T-10025	
59331-82-7	β -Santalal, <i>in</i> S-10014	61020-70-0	Cajanol, <i>in</i> T-10055	63013-34-3	Echinoside, <i>in</i> T-10129	
59462-55-4	6 α ,7 β ,14 β -Trihydroxyvinhaticoic acid, <i>in</i> T-10196	61042-11-3	Populin; 3- <i>O</i> -(2'- <i>O</i> -Sinapoylsophoroside), <i>in</i> P-10133	63024-87-3	Traumatin; Me ester, <i>in</i> O-10054	
59476-60-7	Lactaroscrobiculide A, L-10015	61080-21-5	Pterocarpan, P-10168	63040-43-7	► Cocarcinogen B2, <i>in</i> P-10063	
59573-57-8	3,9-Acoradiene, <i>see</i> A-10022	61105-51-9	Bryoamaride, <i>in</i> C-10140	63040-44-8	► Cocarcinogen B1, <i>in</i> P-10063	
59613-30-8	Tomentonin, <i>in</i> P-10138	61242-47-5	8,13-Epoxy-14-labden-11-one, <i>in</i> E-10126	63043-64-1	Luteolin; 4'- <i>O</i> -Sophoroside, 7- <i>O</i> -neohesperidoside, <i>in</i> T-10052	
59613-31-9	Tomentodin, <i>in</i> P-10138	61252-37-7	5 α ,6 α -Epoxycaudatin, <i>in</i> P-10059	63090-99-3	Vesuvianic acid, <i>in</i> S-10118	
59665-58-6	25-Methylacerinol, <i>in</i> A-10012	61252-90-2	Gentiabavarutinoside, <i>in</i> T-10073	63223-86-9	Ginsenoside Rh ₁ , <i>in</i> D-10009	
59665-60-0	25-Acetylacerinol, <i>in</i> A-10012	61332-05-6	Paulomycin A, <i>see</i> P-10016	63250-09-9	5-[Tetrahydro-4,6-dihydroxy-2-(3-hydroxy-1-octenyl)-2 <i>H</i> -pyran-3-yl]-3-pentenoic acid, T-10027	
59684-64-9	Lanost-8-en-3-ol, <i>see</i> L-10024	61358-52-9	Multiflorin A, <i>in</i> A-10030	63296-16-2	4',5',7-Trihydroxy-3,3',5',6'-tetramethoxyflavone, <i>in</i> H-10026	
59708-85-9	17,20-Hexacosadienoic acid, H-10036	61377-88-6	Yokonoside, <i>see</i> Y-10002	63320-63-8	Tomentogenin; 12-Ac, <i>in</i> P-10138	
59708-86-0	13,16,19-Docosatrienoic acid, D-10300	61391-22-8	Prehelminthosporal, <i>in</i> P-10142	63366-01-8	1,10 β -Epoxy-6 β -(γ -hydroxyangeloyloxy)furanooeremophilane, <i>in</i> E-10087	
		61419-07-6	Torosachryson, <i>in</i> D-10102			
		61470-51-7	Genkwanin; 4'- <i>O</i> -[β -D-Glucopyranosyl-(1 \rightarrow 3)- β -D-xylopyranoside], <i>in</i> D-10195			

63366-02-9	1,10-Epoxyfuranooeromophilane-3,6-diol; (1 β ,3 α ,6 β ,10 β)-form, 3-(2-Methyl-2-propenoyl), 6-Ac, in E-10085	64809-71-8	Morindone 5-methyl ether, in T-10160	66895-65-6	Turpethinic acid E, in H-10160
63366-03-0	1,10-Epoxyfuranooeromophilane-3,6-diol; (1 β ,3 α ,6 β ,10 β)-form, 3-Angeloyl, 6-Ac, in E-10085	64812-32-4	Trifolin \dagger ; O'-Rhamnosylglucoside, in T-10123	66900-47-8	Rhynchophorol, see M-10058
63366-04-1	1,10-Epoxyfuranooeromophilane-3,6-diol; (1 β ,3 α ,6 β ,10 β)-form, 3-(2-Methyl-2-propenoyl), in E-10085	64855-00-1	Lappaol C, L-10029	66900-48-9	Rhynchophorol, see M-10058
63366-05-2	1,10-Epoxyfuranooeromophilane-3,6-diol; (1 β ,3 α ,6 β ,10 β)-form, 3-Angeloyl, in E-10085	64855-02-3	Lappaol D, L-10030	66965-42-2	3,12-Dihydroxyhexadecanoic acid, see D-10176
63373-82-0	3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol, see D-10269	65027-00-1	Lappaol E, L-10031	66997-62-4	3-Hydroxyundecanoic acid; (S)-form, in H-10241
63393-40-8	Taxifolin, see P-10050	65027-01-2	Isoteinimine, in E-10206	67029-83-8	3,7-Dimethoxy-4H-1-benzopyran-4-one, in D-10111
63521-55-1	Coleon T, in T-10125	65360-31-8	Teinimine, in E-10206	67109-67-5	α -D-Glucopyranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 2)-L-rhamnose, G-10044
63524-08-3	Tomentomin, in P-10138	65372-78-3	Feudomycinone A, in F-10007	67233-89-0	Nostrenol, see U-10008
63635-82-5	5-[Tetrahydro-4,6-dihydroxy-2-(3-hydroxy-1-octenyl)-2H-pyran-3-yl]-3-pentenoic acid, see T-10027	65388-16-1	α -Isocomentone, I-10026	67233-90-3	Nostrenol, see U-10008
63808-23-1	Graveobioside A, in T-10052	65402-13-3	Caudicifolin, C-10037	67337-69-3	5-Methyl-2,4-imidazolidinedione; (\pm)-form, in M-10065
63857-17-0	3-Oxopropanoic acid; <i>Oxo</i> -form, Me ester, in O-10061	65410-38-0	Entandrolide, E-10023	67494-01-3	4-Decenedioic acid, D-10026
63898-23-7	Perymenic acid, in H-10170	65411-01-0	Traumatol, in O-10054	67494-13-7	Erucifoline, see E-10189
63902-77-2	Campanoside, in T-10052	65466-13-9	Rubraxanthone, R-10058	67506-31-4	Neuroleolin A, in T-10220
63965-45-7	1,5-Dihydroxy-2-methoxy-6-methylanthraquinone, in T-10160	65513-87-3	3',4',7-Trihydroxy-2'-methoxyisoflavan, in T-10054	67560-14-9	3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol, see D-10269
63965-57-1	Subspinosin, in D-10180	65548-54-1	Cinnamoylgrandifloric acid, in H-10170	67594-76-7	Drimenol, in D-10310
63976-69-2	13-Oxo-8(14)-podocarpin-18-oic acid, O-10060	65562-09-6	7,8-Dimethoxyflavone, in D-10165	67621-48-1	Graecunin A, G-10116
64078-90-6	Populin; 3-O-(Rhamnopyranosylxyloside), in P-10133	65563-80-6	Paniculoside IV, in K-10005	67621-49-2	Graecunin B, G-10117
64086-30-2	16-Kaurene-3,19-diol; (<i>ent</i> -3 α)-form, 19-Carboxylic acid, 3-(3-methyl-2-butenoyl), in K-10006	65606-29-3	Furanoeromophil-1(10)-en-6-ol; $\beta\beta$ -form, in F-10033	67621-50-5	Graecunin C, G-10118
64125-32-2	8,8-Dimethyl-2-phenyl-4H,8H-benzo[1,2-b:3,4-b']dipyran-4-one, D-10285	65615-48-7	Paniculoside V, in H-10170	67664-92-0	Grandifloric acid; Benzoyl, in H-10170
64181-95-9	Lanceolin \dagger , in P-10040	65622-48-2	1-Hydroxy-3,8-dimethoxy-2-methylanthraquinone, in T-10161	67696-82-6	Acrihellin, in T-10175
64185-33-7	Furanoeromophil-1(10)-ene-6,9-diol; (6 β ,9 β)-form, 6-Angeloyl, in F-10031	65622-49-3	3,4-Epoxy-7,11,15-cebratrien-14-one, in C-10055	67705-18-4	Scabrosine; Di-Ac, in S-10029
64185-34-8	Furanoeromophil-1(10)-ene-6,9-diol; (6 β ,9 β)-form, 6-(3-Methylbutanoyl), in F-10031	65622-50-6	3,7,11,15-Cembratetraen-13-one, in C-10054	67705-19-5	Scabrosine; 4-Ac, 4'-butanoyl, in S-10029
64185-35-9	Furanoeromophil-1(10)-ene-6,9-diol; (6 β ,9 β)-form, 6-(3-Methyl-2-butenoyl), in F-10031	65622-51-7	3,4-Epoxy-7,11,15-cebratrien-14-ol, in C-10055	67705-20-8	Scabrosine; Dibutanoyl, in S-10029
64185-36-0	Furanoeromophil-1(10)-ene-6,9-diol; (6 β ,9 β)-form, 6-(2-Methylpropenoyl), in F-10031	65622-51-7	3,7,11,15-Cembratetraene, see C-10046	67705-21-9	Scabrosine; 4-Ac, 4'-hexanoyl, in S-10029
64191-31-7	Taxifolin, see P-10050	65634-83-5	3,4-Epoxy-7,11,15-cebratrien-13-one; (1S,3S,4S,7E,11E)-form, in E-10041	67719-11-3	Thromboxane B ₂ ; (+)-form, 11-Dehydro, Me ester, in T-10086
64191-33-9	Taxifolin, see P-10050	65647-30-5	Pleocarpenene, in G-10135	67783-22-6	Norswertianine; 2,8-Di-Me ether, 1-O-primeveroside, in T-10073
64197-41-7	6-Hydroxyliguanerolide; Ac, in H-10131	65648-12-6	3 β -Hydroxyngalactone A, in N-10001	67803-46-7	10-Hydroxy-8-decenoic acid; (E)-form, Ac, Me ester, in H-10109
64199-78-6	Barbinervic acid, in T-10195	65681-32-5	Strophanthidin digitaloside, in T-10177	67803-47-8	10-Hydroxy-8-decenoic acid; (E)-form, Me ester, in H-10109
64234-09-9	1,10-Epoxyfuranooeromophilane-3,6-diol; (1 β ,3 α ,6 β ,10 β)-form, 6-Angeloyl, in E-10085	65714-70-7	Coleon V, T-10125	67814-27-1	Serratol, in C-10060
64306-03-2	Rupestrinol orthocinnamate, R-10060	65756-55-0	β -Ergoptine, E-10172	67849-63-2	Thornasteroside A, in T-10135
64314-11-0	Ventricosin A, in E-10213	65794-73-2	β -Ergoptinine, in E-10172	67866-98-2	Scabrosine, S-10029
64323-49-5	Populin; 3-O- α -L-Rhamnopyranoside, in P-10133	65995-51-9	Citrusin D, in D-10243	67870-30-8	6,14,15-Trihydroxy-1(10),4,11(13)-germacratrien-12,8-olide; (1(10)E,4Z,6 α ,8 α)-form, 14-Aldehyde, 15-Ac, in T-10150
64363-64-0	Cembrene C, in C-10045	66101-16-4	N ³ -Trimethylornithine, in O-10049	67910-12-7	9,15-Dihydroxy-11-oxothromboxane-5,13-dien-1-oic acid, in T-10086
64421-28-9	Shanzhiside; Me ester, in S-10057	66113-19-7	Epiguadalupol, in P-10078	67921-02-2	3,7,11-Cembratrien-1-ol, see C-10060
64474-51-7	Isomucronulatol, in T-10054	66113-20-0	Guadalupol, in P-10078	67963-63-7	3,3',4',5',5',6,7-Heptahydroxyflavone; 3,3',5',6-Tetra-Me ether, 7-O- β -D-glucopyranoside, in H-10026
64604-09-7	Euphorbia factor T ₈ , in P-10063	66113-28-8	Perforenone, P-10078	67963-64-8	3,3',4',5',5',6,7-Heptahydroxyflavone; 3',5',6-Tri-Me ether, 3-O- β -D-glucopyranoside, in H-10026
64604-10-0	Euphorbia factor T ₇ , in P-10063	66141-71-7	Perforenone C, in P-10078	67991-66-6	3,21-Friedelanedione, in F-10021
64604-11-1	Euphorbia factor T ₁ , in P-10063	66185-72-6	Hymecromone; Benzoyl, in H-10177	68043-37-8	Epoxyisoneocembrene A, in C-10045
64626-48-8	Euphorbia factor T ₆ , in P-10063	66190-61-2	Coryphenanthrine, in M-10069	68067-46-9	β -D-Galactopyranosyl-(1 \rightarrow 6)- β -D-galactopyranosyl-(1 \rightarrow 4)-D-glucose; Phenylsazone, in G-10009
64633-54-1	Euphorbia factor T ₉ , in P-10063	66216-62-4	5-Dehydromultiflorine, in M-10092	68124-11-8	Muricinol B, in H-10160
64662-18-6	Luteolin; 5-O- β -D-Galactopyranoside, in T-10052	66395-02-6	Dehydroshizukanolide, in S-10060	68144-22-9	Hovenoside D, in J-10007
64675-22-5	Carapanaubine N-oxide, in C-10021	66395-03-7	Chloranthalactone B, in S-10060	68165-54-8	Phyllozutin, in D-10237
64727-70-4	Rhynchophorol, see M-10058	66396-10-9	N-Methylsecoglaucine, M-10069	68321-11-9	Luteolin; 7-O- β -D-Galactopyranoside, in T-10052
64756-97-4	Orientalone, in A-10017	66465-23-4	Populin; 3-O-(6-O-Acetyl- β -D-glucopyranoside), in P-10133	68331-87-3	2'-N-Methylisotetrandrine, in I-10052
		66537-26-6	Epihomolycorine, in H-10069	68340-29-4	2-(4-Carboxy-2-oxobutyl)-3,5-dihydroxy-2-oxocyclopentanoic acid, C-10024
		66548-00-3	Shikodonin, S-10059	68370-45-6	Aguerin B, in D-10175
		66548-01-4	Angustifolin \dagger , in S-10059	68370-46-7	Aguerin A, in D-10175
		66556-91-0	<i>ent</i> -3 β -Hydroxy-16-kauren-19-oic acid, in K-10006	68406-26-8	Ginsenoside R _{3b} , in D-10009
		66634-88-6	3-O-(4-O-Methyl- α -D-glucopyranuronosyl)-D-xylose, in G-10086		
		66648-43-9	Moupinamide, in T-10212		
		66648-97-3	Sarcophytol M, in C-10060		
		66656-93-7	Taxillusin, in P-10050		
		66673-14-1	16-Kaurene-3,19-diol; (<i>ent</i> -3 α)-form, 19-Carboxylic acid, 3-Ac, in K-10006		
		66675-73-8	3,12-Dihydroxyhexadecanoic acid, D-10176		
		66700-76-3	Aphanastatin, in T-10108		
		66761-09-9	Linichlorin B, in D-10175		
		66789-14-8	Δ -Aclacinomycin Y, A-10020		
		66791-74-0	Faguside, in D-10243		
		66891-14-3	Delbiterine, in D-10032		
		66895-64-5	Turpethinic acid D, in D-10176		

68499-13-8	2,5,7-Trihydroxy-4 <i>H</i> -1-benzopyran-4-one, T-10132	69631-14-7	Luteolin; 3'- <i>O</i> -Glucopyranoside, 7- <i>O</i> -glucuronoside, in T-10052	70807-88-4	2,4-Dimethyl-1 <i>H</i> -imidazole; B.HCl, in D-10276
68566-74-5	Luteolin; 7- <i>O</i> -Digalactoside, in T-10052	69637-75-8	4-Ethylglutamic acid, see E-10201	70862-15-6	Canavalmine, C-10018
68665-70-3	Hovenoside I, in J-10007	69637-98-5	α -D-Xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-(1 \rightarrow 4)-D-glucose, X-10011	70897-79-9	Neochamine, N-10014
68688-60-8	(2-Carboxy-2-hydroxyethyl) trimethylarsonium hydroxide inner salt, C-10023	69645-80-3	Luteolin; 3'- <i>O</i> -(<i>O</i> -Feruloylglucopyranoside), 7- <i>O</i> -glucuronoside, in T-10052	70968-93-3	8-Hydroxy-5,9,11,14-eicosatetraenoic acid, see H-10129
68715-84-4	Eupestrol, in E-10170	69672-67-9	Spongiaquinone, S-10104	70981-96-3	15-Hydroperoxy-5,8,11,13-eicosatetraenoic acid; (1 <i>S</i> ,5 <i>S</i> ,8 <i>Z</i> ,11 <i>Z</i> ,13 <i>E</i>)-form, in H-10077
68773-23-9	Furanoeremophilane-1,10-diol; (1 <i>α</i> ,10 <i>β</i>)-form, 1-Tigloyl, in F-10029	69722-45-8	5-Methoxy-3',4'-methylenedioxyfuran[2'',3'':7,8] flavone, in D-10238	71031-45-3	5,6,7,8-Tetrahydrobiopterin, see T-10025
68773-29-5	3 <i>α</i> ,6 <i>β</i> -Dihydroxyeurypsins, in F-10030	69743-88-0	1,3,7,11-Cembratetraene, see C-10045	71074-53-8	5,6,7,8-Tetrahydrobiopterin, see T-10025
68773-49-9	Furanoeremophil-1(10)-ene-6,9-diol; (6 <i>β</i> ,9 <i>α</i>)-form, 6-Angeloyl, in F-10031	69779-96-0	Prostaglandin F-M, P-10154	71123-80-3	Graecunin H, G-10121
68773-50-2	Furanoeremophil-1(10)-ene-6,9-diol; (6 <i>β</i> ,9 <i>α</i>)-form, 6-(2-Methylpropenoyl), in F-10031	69847-01-4	8-Hydroxy-11-eremophilene-2-one; (4 <i>α</i> ,5 <i>α</i> ,8 <i>β</i>)-form, in H-10133	71123-81-4	Graecunin I, G-10122
68773-51-3	Furanoeremophil-1(10)-ene-6,9-diol; (6 <i>β</i> ,9 <i>α</i>)-form, 6-(3-Methyl-2-butenyl), in F-10031	69884-00-0	Ginsenoside A ₁ , in E-10056	71123-82-5	Graecunin J, G-10123
68773-70-6	1,10-Epoxyfuranoeremophilane-3,6-diol; (1 <i>β</i> ,3 <i>α</i> ,6 <i>β</i> ,10 <i>β</i>)-form, 6-(3-Methylpentanoyl), in E-10085	69911-64-4	6,8-Dihydroxy-4-methyl-7 <i>H</i> -benz[de]anthracene-7-one, D-10198	71123-83-6	Graecunin K, G-10124
68773-72-8	6-Hydroxyfuranoeremophilane-9-one; (6 <i>β</i> ,10 <i>α</i>)-form, <i>O</i> -(2,3-Epoxy-2-methylbutanoyl), in H-10148	69924-34-1	α -D-Glucopyranosyl-(1 \rightarrow 3)- α -D-glucopyranosyl-(1 \rightarrow 4)-D-glucose, G-10049	71123-84-7	Graecunin L, G-10125
68773-75-1	3,6-Dihydroxyfuranoeremophilane-9-one; (3 <i>β</i> ,6 <i>β</i> ,10 <i>α</i>)-form, 3,6-Bis(2-methyl-2-propenoyl), in D-10168	69924-35-2	α -D-Glucopyranosyl-(1 \rightarrow 3)- α -D-glucopyranosyl-(1 \rightarrow 3)-D-glucose, G-10053	71123-86-9	Graecunin N, G-10127
68773-76-2	3,6-Dihydroxyfuranoeremophilane-9-one; (3 <i>β</i> ,6 <i>β</i> ,10 <i>α</i>)-form, 3-(2-Methyl-2-propenoyl), 6-tigloyl, in D-10168	69940-11-0	6,8-Dihydroxy-4-methyl-7 <i>H</i> -benz[de]anthracene-7-one; Di-Ac, in D-10198	71135-22-3	Tetracenomycin C, T-10021
68773-77-3	3,6-Dihydroxyfuranoeremophilane-9-one; (3 <i>β</i> ,6 <i>β</i> ,10 <i>α</i>)-form, 3-(2-Methyl-2-propenoyl), 6-angeloyl, in D-10168	69987-14-0	Ginsenoside M _{7,ns} , in D-10007	71144-75-7	α -L-Rhamnopyranosyl-(1 \rightarrow 3)- α -D-galactopyranosyl-(1 \rightarrow 3)-L-fucose, R-10021
68773-81-9	Furanoeremophilane-1,10-diol; (1 <i>α</i> ,10 <i>β</i>)-form, 1-(3-Methyl-2-pentenyl), in F-10029	69999-74-2	3,15-Friedelanedione, in H-10147	71213-92-8	3,7,11,15-Cembratetraene; (3 <i>Z</i> ,7 <i>E</i> ,11 <i>E</i>)-form, in C-10046
68773-82-0	Furanoeremophilane-1,10-diol, see F-10029	70016-51-2	Dihydroagosterol; Benzoyl, in L-10023	71231-05-5	β -D-Fructofuranosyl-(2 \rightarrow 1)- β -D-fructofuranosyl- β -D-fructofuranosyl-(2 \rightarrow 1)- β -D-fructofuranosyl-(2 \rightarrow 6)- α -D-glucopyranoside, F-10022
68773-87-5	4(15)-Eremophilene-11-ol; 10 <i>β</i> -form, in E-10171	70051-79-5	2- <i>O</i> - β -D-Glucopyranuronosyl-D-mannose; Me glycoside, hexa-Me, 6'-Me ester, in G-10083	71239-18-4	1,3-Dihydroxy-8-methoxy-2-methylanthraquinone, in T-10161
68787-45-1	β -D-Arabinopyranosyl-(1 \rightarrow 2)- α -D-mannopyranosyl-(1 \rightarrow 2)-D-glucose; α -Pyranose-form, Deca-Ac, in A-10110	70191-82-1	2'-Norisotetrandrine, in I-10052	71239-74-2	1,3,8-Trihydroxy-2-methylanthraquinone; 8-Me ether, 3- <i>O</i> - α -L-rhamnopyranoside, in T-10161
69056-38-8	5,6,7,8-Tetrahydrobiopterin, see T-10025	70191-83-2	Isotetrandrine <i>N</i> -2'-oxide, in I-10052	71305-76-5	8-Propionyloxy-10 <i>β</i> -hydroxy-1- <i>O</i> -methylhirsutinolide 13- <i>O</i> -acetate, in E-10151
69056-39-9	5,6,7,8-Tetrahydrobiopterin, see T-10025	70200-17-8	U 89901, in H-10189	71305-80-1	8 <i>α</i> -Acetoxyzaluzanin D, in D-10175
69127-09-9	3,3',4',5',7-Pentahydroxyflavan(4 \rightarrow 8)-3,3',4',5',7-pentahydroxyflavan, in P-10049	70224-43-0	16-Kaurene-3,19-diol; (<i>ent</i> -3 <i>β</i>)-form, 19-Carboxylic acid, 3-Ac, in K-10006	71305-81-2	8 <i>α</i> -Acetoxyzaluzanin C, in D-10175
69127-10-2	Robinetinidol(4 <i>α</i> \rightarrow 8)galocatechin, in P-10049	70284-22-9	Akiferidin, in D-10019	71305-86-7	8 <i>β</i> -Propionyloxy-10 <i>β</i> -hydroxyhirsutinolide 13- <i>O</i> -acetate, in E-10151
69151-99-1	4-Amino-4-methyl-2-pentanone; Oxime, in A-10071	70342-19-7	5-Pentatriacontanone, P-10071	71325-91-2	3',5',5',7-Tetrahydroxy-3,4',6-trimethoxyflavone, in H-10026
69152-90-5	10-Hydroxy-8-decenoic acid, see H-10109	70363-41-6	Ye-base, Y-10001	71325-93-4	Dihydromahubenolide B, in H-10044
69257-05-2	Neononellin, N-10013	70387-38-1	6 <i>α</i> -Hydroxynidorellol, in L-10008	71325-94-5	Isodihydromahubenolide B, in H-10044
69343-48-2	6-Hydroxychaparrinone, in H-10095	70404-41-0	Luteolin; 4'- <i>O</i> -Glucopyranoside, 7- <i>O</i> -neohesperidoside, in T-10052	71325-95-6	Dihydromahubynolide B, in H-10044
69423-70-7	6-Hydroxychaparrin; 6 <i>α</i> -form, 2-Ketone, 6-tigloyl, in H-10095	70404-47-6	Luteolin; 4',7-Di- <i>O</i> -glucopyranoside, in T-10052	71325-96-7	Isodihydromahubynolide B, in H-10044
69471-28-9	3-(2,4-Dihydroxyphenyl)propanoic acid; 4-Me ether, Me ester, in D-10242	70404-48-7	Luteolin; 4'- <i>O</i> -Neohesperidoside, in T-10052	71325-97-8	Dihydromahubanolide B, in H-10044
69511-20-2	Ergosta-5,22-diene-3,7-diol; (3 <i>β</i> ,7 <i>β</i> ,24 <i>R</i>)-form, in E-10173	70411-27-7	3,3',5,7-Tetrahydroxy-4'-methoxyflavanone, in P-10050	71328-59-1	3,3',5,5',7-Pentahydroxy-4',6-dimethoxyflavone, in H-10026
69631-11-4	Luteolin; 3'- <i>O</i> -Glucopyranoside, 4',7-di- <i>O</i> -glucuronoside, in T-10052	70470-10-9	1,2,3,4,6-Pentagalloylglucose; α -D-Pyranose-form, in P-10035	71339-46-3	Mahubenolide, in M-10004
69631-12-5	Luteolin; 3'- <i>O</i> -Feruloylglucoside, 4',7-di- <i>O</i> -glucuronoside, in T-10052	70492-74-9	Haplociliatic acid, in C-10106	71339-47-4	Isomahubenolide, in M-10004
		70546-93-9	<i>N</i> -[2-Methoxy-2-(4-methoxyphenyl)ethyl]cinnamide, in A-10027	71339-48-5	Mahubynolide, M-10004
		70546-94-0	<i>N</i> -[2-Ethoxy-2-(4-methoxyphenyl)ethyl]cinnamide, in A-10027	71339-49-6	Isomahubynolide, in M-10004
		70561-33-0	Armenin B, A-10124	71339-50-9	Mahubanolide, in M-10004
		70572-93-9	Ranatenin R, R-10005	71339-51-0	Dihydromahubenolide A, in H-10044
		70578-36-8	Shizukanolide, S-10060	71339-52-1	Isodihydromahubenolide A, in H-10044
		70579-57-6	Neodihydromurolic acid, in M-10093	71339-53-2	Dihydromahubynolide A, in H-10044
		70579-58-7	Murolic acid, M-10093	71339-54-3	Isodihydromahubynolide A, in H-10044
		70579-63-4	Muronic acid, in M-10093	71358-20-8	Isodihydromahubanolide B, in H-10044
		70579-66-7	Isomuronic acid; (<i>R</i>)-form, in I-10037	71358-21-9	3-(15-Hexadecynylidene)dihydro-4-hydroxy-5-methyl-2(3 <i>H</i>)-furanone, see H-10044
		70588-14-6	9(11)-Fernen-23-ol, F-10004	71359-03-0	Isomahubanolide, in M-10004
		70607-88-4	Isocardopatine, in C-10025		
		70607-89-5	Cardopatine; (<i>Z</i>)-form, in C-10025		
		70610-10-5	3-Methoxy-5-(2-phenylethyl)-2-prenylphenol, in M-10048		
		70610-11-6	2-(3-Methyl-2-butenyl)-5-(2-phenylethyl)-1,3-benzenediol, M-10048		

71359-04-1	Dihydromahubanolid A, <i>in</i> H-10044	72746-34-0	Phytofluene; (15 <i>Z</i> ,9' <i>Z</i>)- <i>form</i> , <i>in</i> H-10050	74024-22-9	1- <i>O</i> - α -D-Glucopyranosyl-D-fructose; β -Pyranose- <i>form</i> , 2,3,4,5-Di- <i>O</i> -isopropylidene, 2',3',4',6'-tetra β -benzyl, <i>in</i> G-10043
71359-05-2	Isodihydromahubanolid A, <i>in</i> H-10044	72748-29-9	8 β ,10 β -Diacetoxyhirsutinolide 13- <i>O</i> -acetate, <i>in</i> E-10151		
71417-57-7	Neohydnocarpin, N-10019	72755-20-5	Odorine, O-10018		
71418-13-8	4-Methylstigmasta-8,24(28)-dien-3-ol; (3 β ,4 α ,5 α ,24 <i>Z</i>)- <i>form</i> , <i>in</i> M-10070	72755-22-7	(+)-Odorinol, <i>in</i> O-10018	74048-34-3	11,12-Epoxy-3-hydroxy-28,13-ursanolid; (3 β ,11 α ,12 α ,13 β)- <i>form</i> , <i>in</i> E-10116
71418-14-9	4-Methylstigmasta-8,24(28)-dien-3-ol, <i>see</i> M-10070	72778-10-0	8 β ,10 β -Diacetoxy-1- <i>O</i> -methylhirsutinolide 13- <i>O</i> -acetate, <i>in</i> E-10151	74061-78-2	Simplexoside, <i>in</i> P-10120
71431-25-9	Sylvestroside IV, S-10137	72826-79-0	2,3-Dihydroxy- β - β -carotene-4,4'-dione; (2 <i>R</i> ,3 <i>S</i>)- <i>form</i> , <i>in</i> D-10123	74072-82-5	1-Octen-3-ol; (\pm)- <i>form</i> , <i>in</i> O-10016
71486-05-0	Ergost-5-ene-3,7-diol; (3 β ,7 α ,24 <i>S</i>)- <i>form</i> , <i>in</i> E-10183	72896-79-8	3-Hydroxy-1-(2,4,6-trihydroxyphenyl)-1-butanone, H-10234	74145-72-5	Asbestinin 3, <i>in</i> A-10130
71503-81-6	Shikodomedin, <i>in</i> S-10058			74145-73-6	Asbestinin 2, A-10130
71503-82-7	Shikokiamedin, <i>in</i> S-10058	72933-67-6	Papyrioxide L Iib, <i>in</i> H-10119	74163-66-9	Verbascosaponin, <i>in</i> E-10138
71539-79-2	Pluchein, <i>in</i> D-10161	72933-68-7	Papyrioxide L Iid, <i>in</i> H-10119	74201-15-3	Glycophapline, <i>in</i> H-10002
71562-84-0	β -D-Glucopyranuronosyl-(1 \rightarrow 3)- α -D-galactopyranuronosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-(1 \rightarrow 4)-[β -D-glucopyranuronosyl-(1 \rightarrow 3)]- α -D-galactopyranuronosyl-(1 \rightarrow 2)-L-rhamnopyranose, G-10073	72933-71-2	28-Nor-11,13(18),17(22)-oleanatriene-3,21-dione, <i>in</i> H-10195	74219-41-3	Asbestinin 1, <i>in</i> A-10130
71635-26-2	Alkaloid LC2, A-10048	72933-73-4	Propapyriogenin A ₁ , <i>in</i> H-10119	74259-30-6	5,6-Dihydro-4-hydroxy-6-methyl-2 <i>H</i> -pyran-2-one; (\pm)- <i>form</i> , <i>in</i> D-10097
71699-04-2	13 ² -Hydroxychlorophyll a, <i>in</i> C-10084	72933-74-5	Propapyriogenin A ₂ , <i>in</i> H-10119	74284-57-4	Silphinene, S-10063
71731-82-3	2- <i>O</i> - α -L-Fucopyranosyl-L-fucose; α -Pyranose- <i>form</i> , Me glycoside, 2'-benzyl, <i>in</i> F-10023	72938-19-3	Papyrioxide L Iic, <i>in</i> H-10119	74311-15-2	β -Isocomene, I-10027
71731-83-4	Methyl 2- <i>O</i> - α -L-fucopyranosyl- α -L-fucopyranoside, <i>in</i> F-10023	72938-20-6	Papyriogenin I, <i>in</i> H-10195	74336-88-2	Tricin; 5,7-Di- <i>O</i> - β -D-glucopyranoside, <i>in</i> T-10140
71731-87-8	2- <i>O</i> - α -L-Fucopyranosyl-L-fucose; α -Pyranose- <i>form</i> , Me glycoside, 2'-benzyl, 3,4- <i>O</i> -isopropylidene, <i>in</i> F-10023	72947-91-2	Pteroflavonolide, <i>in</i> P-10133	74350-29-1	Graecunin D, G-10119
71801-95-1	Afzelin; 7- <i>O</i> - α -L-Arabinopyranoside, <i>in</i> A-10030	72960-05-5	Dehydroconstipatic acid, <i>in</i> I-10037	74365-74-5	<i>ent</i> -16 α ,17-Dihydroxy-19-kauranoic acid, <i>in</i> K-10005
71815-44-6	3-Iodo-2-propenoic acid, I-10017	72963-55-4	Boschnaloid, B-10039	74410-21-2	16,17,19-Kauranetriol; (<i>ent</i> -16 α OH)- <i>form</i> , 19-Carboxylic acid, Me ester, <i>in</i> K-10005
71815-46-8	2,3,3-Tribromo-2-propenoic acid, T-10107	72980-20-2	Izumenolide, <i>see</i> I-10059	74410-58-5	16,17,19-Kauranetriol; (<i>ent</i> -16 β OH)- <i>form</i> , 19-Carboxylic acid, 16,17-di-Ac, <i>in</i> K-10005
71855-50-0	Tricin; 4'- <i>O</i> - β -D-Glucopyranoside, <i>in</i> T-10140	72980-57-5	Entanin, E-10024	74410-74-5	Symlandine, <i>in</i> E-10004
71884-72-5	3- <i>epi</i> -Periplogenin, <i>in</i> T-10134	73012-74-5	Ajmalin, <i>in</i> A-10035	74459-23-7	Chuangxinol, B-10054
72023-09-7	Carterothamnotriol, <i>in</i> L-10012	73019-81-5	Caespitenone, C-10009	74459-24-8	Chuangxinol; (<i>S</i>)- <i>form</i> , <i>in</i> B-10054
72025-60-6	Leukotriene C ₄ , L-10046	73036-28-9	Constipatic acid, <i>in</i> I-10037	74474-69-4	Protosiphulin, P-10157
72059-37-1	12-Labdene-9,14,15-triol; (9 α ,12 <i>E</i> ,14 <i>R</i>)- <i>form</i> , <i>in</i> L-10012	73036-54-1	7-Ketodrimenin, O-10056	74484-86-9	Oxysiphulin, O-10067
72093-23-3	Cynanchoside C2, <i>in</i> T-10066	73061-92-4	Subtoxin A, <i>in</i> H-10076	74517-64-9	5-Methoxy-6,6-dimethylpyrano[2,3:7,6]flavone, <i>in</i> H-10113
72170-12-8	4-Hydroxydicentrine, <i>in</i> D-10058	73191-27-2	Loxodol, L-10066	74517-68-3	3',4',5',7-Tetrahydroxy-3,5',6-trimethoxyflavone, <i>in</i> H-10026
72183-90-5	Kokoonol, <i>in</i> D-10167	73211-11-7	Shikocin, S-10058	74545-40-7	Taxifolin; (2 <i>R</i> ,3 <i>R</i>)- <i>form</i> , 3,5-Di- <i>O</i> - α -L-Rhamnopyranoside, <i>in</i> P-10050
72183-91-6	Kokoondiol, <i>in</i> D-10167	73223-31-1	α -L-Rhamnopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 2)-L-rhamnose; α -Pyranose- <i>form</i> , <i>in</i> R-10028	74635-55-5	16-Kaurene-3,19-diol; (<i>ent</i> -3 β)- <i>form</i> , 19-Carboxylic acid, 3-(3-methylbutanoyl), <i>in</i> K-10006
72183-92-7	Kokoonol, <i>in</i> D-10167			74635-57-7	<i>ent</i> -3 β -Angeloyloxy-16 β ,17-epoxy-19-kauranal, <i>in</i> K-10006
72184-00-0	15-Nor-3,13-clerodadiene; <i>ent</i> - <i>form</i> , <i>in</i> N-10043	73276-40-1	Ungvedine, <i>in</i> T-10014	74635-61-3	16-Kaurene-3,19-diol; (<i>ent</i> -3 β)- <i>form</i> , 19-Carboxylic acid, 3-angeloyl, <i>in</i> K-10006
72188-57-9	3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol, <i>see</i> D-10269	73276-40-1	Ungvedine, <i>in</i> T-10014	74635-62-4	16-Kaurene-3,19-diol; (<i>ent</i> -3 β)- <i>form</i> , 19-Carboxylic acid, 3-(3-methyl-2-butenoyl), <i>in</i> K-10006
72357-38-1	4',5,6,7-Tetrahydroxy-3,3',5'-trimethoxyflavone, <i>in</i> H-10026	73286-37-0	2-Aminoacetophenone; <i>N</i> -Formyl, <i>in</i> A-10055	74642-79-8	α -Santalal-12- <i>oic</i> acid, <i>in</i> S-10015
72357-40-5	3',5-Dihydroxy,3,4',5',6,7-pentamethoxyflavone, <i>in</i> H-10026	73385-58-7	Murrayamine C†, <i>in</i> M-10003	74647-03-3	16-Kaurene-3,19-diol; (<i>ent</i> -3 β)- <i>form</i> , 19-Carboxylic acid, <i>O</i> -(3-methylbutanoyl), <i>in</i> K-10006
72442-45-6	Taxifolin; (2 <i>R</i> ,3 <i>R</i>)- <i>form</i> , 7- <i>O</i> - β -D-Galactopyranoside, <i>in</i> P-10050	73427-53-9	8-Amino-8-oxooctanoic acid, <i>in</i> O-10014	74648-06-9	3-(4-Isopropylphenyl)-2-methylpropanal, <i>see</i> I-10049
72463-81-1	Secologanol, S-10041	73428-92-9	Geosmin, <i>see</i> G-10025	74648-07-0	3-(4-Isopropylphenyl)-2-methylpropanal, <i>see</i> I-10049
72530-18-8	2-Amino-3-tetradecanol, A-10073	73435-47-9	Dehydrobrucein A, <i>in</i> D-10029	74670-10-3	2',5'-Dimethoxyflavone, <i>in</i> D-10163
72533-75-6	Gibberellin A ₅₄ , <i>in</i> G-10029	73465-83-5	α -Agarofuran; 3 α ,4 α -Epoxyde, <i>in</i> A-10031	74728-13-5	Methylstictic acid, <i>in</i> S-10118
72581-69-2	Isodrimeninol, <i>in</i> D-10310	73536-69-3	Dimethyl 4,4'-dimethoxy-5,6:5',6'-bis(methylenedioxy)biphenyl-2,2'-dicarboxylate, <i>in</i> H-10051	74728-15-7	Cryptostictin, <i>in</i> S-10118
72629-61-9	3',7-Dihydroxy-4',5'-dimethoxyflavone, <i>in</i> T-10052	73580-21-9	Cerebronic acid, <i>see</i> H-10229	74735-51-6	Divinylchlorophyllide a, D-10299
72629-68-6	Sarcophytol B, <i>in</i> C-10049	73590-17-7	β -Santalal acid, <i>in</i> S-10014	74798-20-2	Pergillin, P-10079
72629-69-7	Sarcophytol A, <i>in</i> C-10053	73667-51-3	Ziziphin, <i>in</i> J-10007	74799-29-4	Pleocarpenene; 11-Ac, <i>in</i> G-10135
72629-72-2	Sarcophytol A; Ac, <i>in</i> C-10053	73675-60-2	Nykhuhriolide, <i>in</i> D-10172	74841-69-3	11- <i>trans</i> -Leukotriene C ₄ , <i>in</i> L-10046
72629-76-6	Prosapogenin CP ₆ , <i>in</i> D-10212	73676-36-5	Nymphaeol C, N-10055		
72635-10-0	Athanadregeloid, <i>in</i> E-10027	73676-37-6	Nymphaeol B, N-10054		
72646-96-9	6,10(14)-Guaiadien-4-ol; (1 ξ ,4 α ,5 α)- <i>form</i> , <i>in</i> G-10131	73683-70-2	Granatin A, G-10128		
72690-44-9	10-Epiathanadregeloid, <i>in</i> E-10027	73710-86-8	Narlumidine, N-10006		
72704-01-9	Plicatin B, <i>in</i> D-10311	73723-40-7	Scalarherbacin B, <i>in</i> D-10136		
72712-41-5	Hirsutinolide, <i>in</i> E-10151	73731-34-7	Scalarlysins B, <i>in</i> E-10064		
72712-42-6	8 β -Acetoxy-10 β -hydroxyhirsutinolide 1,13- <i>O</i> -diacetate, <i>in</i> E-10151	73772-93-7	Spirarin, <i>in</i> T-10211		
		73793-36-9	Viridotriose B, V-10028		
		73803-52-8	Trifolin†; 6'- <i>O</i> - β -D-Glucopyranoside, <i>in</i> T-10123		
		73804-66-7	15-Hydroperoxy-5,8,11,13-eicosatetraenoic acid; (15 <i>R</i> ,5 <i>Z</i> ,8 <i>Z</i> ,11 <i>Z</i> ,13 <i>E</i>)- <i>form</i> , <i>in</i> H-10077		
		73836-78-9	Leukotriene D ₄ , L-10047		
		73912-50-2	α -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-(1 \rightarrow 6)-D-glucose, G-10060		
		73935-94-1	Caespitenene, C-10008		
		73937-46-9	2'-Methoxyfurano[2',3':7,8]flavone, <i>in</i> H-10217		
		73938-83-7	Viridotriose A, <i>in</i> V-10029		
		73942-74-2	Viridotriose C, V-10029		
		73947-03-2	Salicifoliol†, <i>in</i> L-10001		
		73947-04-3	Stevinsol, <i>in</i> L-10008		
		74008-24-5	Corymbositol, <i>in</i> K-10005		

75074-84-9	Neobonellin; α -Me ester, <i>in</i> N-10013	76470-14-9	Glucolin, A-10018	77970-09-3	2-(1,3-Benzodioxol-5-yl)-5,6-dimethoxy-4 <i>H</i> -furo[2,3- <i>h</i>]-1-benzopyran-4-one, B-10014
75076-73-2	Tinctomorone, <i>in</i> D-10180	76470-15-0	Effusanin E, <i>in</i> E-10119		
75082-54-1	Gibberellin A ₅₇ , <i>in</i> G-10029	76474-54-9	Gerberinside, <i>in</i> H-10176	77996-03-3	Rutacridone epoxide, <i>in</i> R-10062
75086-96-3	10-Dihydrostefformycin, <i>in</i> S-10109	76475-17-7	Croverin, <i>in</i> D-10067	78038-45-6	Multifidene, <i>see</i> B-10053
75086-97-4	10-Dihydrostefformycin B, <i>in</i> S-10109	76475-18-8	Dihydrocroverin, <i>in</i> D-10067	78038-46-7	Multifidene; (3 <i>S</i> ,4 <i>S</i>)-(E)-form, <i>in</i> B-10053
75207-46-4	6 α -Acetoxy-12,14-labdadiene-7 β ,8 β -diol, <i>in</i> L-10008	76649-58-6	Rippentrol, R-10036	78040-76-3	<i>Thermopsis lanceolata</i> Alkaloid A, A-10044
75290-58-3	14,15-Leukotriene A ₄ ; Me ester, <i>in</i> E-10077	76656-75-2	Isoferreirin, <i>in</i> T-10055	78040-77-4	<i>Thermopsis lanceolata</i> Alkaloid B, A-10046
75313-07-4	1,2,4,6-Tetrahydroxyanthraquinone, T-10037	76918-93-9	Beiwutine, <i>in</i> A-10021	78095-11-1	Urbalactone, <i>in</i> N-10001
75567-37-2	3- <i>O</i> -Angeloylingenol, <i>in</i> I-10012	76939-42-9	Luteolin; 7- <i>O</i> - β -D-Glucuronoside, Me ester, <i>in</i> T-10052	78161-41-8	α -L-Rhamnopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranosyl-(1 \rightarrow 3)-L-rhamnose; α -Pyranose-form, <i>in</i> R-10029
75567-38-3	3-Angeloyl-20-deoxyingenol, <i>in</i> I-10012	76976-49-3	11-Hydroxyandrosta-1,4-diene-3,17-dione, <i>see</i> H-10083	78182-90-8	Trifolint†; 6'- <i>O</i> -L-Arabinopyranoside, <i>in</i> T-10123
75567-39-4	▶ Ingenol; 20-Deoxy, 3-hexanoyl, <i>in</i> I-10012	76985-39-2	β -Valerenal, <i>in</i> V-10001	78185-18-9	Robinetinidol(4 β \rightarrow 8)catechin, <i>in</i> P-10049
75587-67-6	22-Hydroxy-24-methyl-12,24-dioxo-16-scalaren-25-al, H-10185	77026-90-5	15-Hydroperoxy-5,8,11,13-eicosatetraenoic acid; (15 <i>S</i> ,5 <i>Z</i> ,8 <i>Z</i> ,11 <i>Z</i> ,13 <i>E</i>)-form, Me ester, <i>in</i> H-10077	78214-33-2	Ginsenoside Rh ₂ , <i>in</i> D-10011
75587-68-7	22-Hydroxy-24-methyl-12,24-dioxo-16-scalaren-25-al; Ac, <i>in</i> H-10185	77053-45-3	Americanin D, A-10054	78216-55-4	3-Hydroxy-2(1 <i>H</i>),11-spirovetivadien-2-one, H-10225
75605-85-5	Dendalone, <i>in</i> H-10187	77099-20-8	Yuankanin, <i>in</i> D-10195	78280-92-9	Teucardoside, <i>in</i> T-10079
75605-86-6	12-Hydroxy-24-methyl-24-oxo-16-scalaren-25-al; 12 α -form, Ac, <i>in</i> H-10187	77122-69-1	Dihydrohyperin, <i>in</i> P-10050	78339-87-4	3-(15-Hexadecynylidene)dihydro-4-hydroxy-5-methyl-2(3 <i>H</i>)-furanone, <i>see</i> H-10044
75605-87-7	16,22-Dihydroxy-24-methyl-12,24-dioxo-25-scalaranal; 16 β -form, Di-Ac, <i>in</i> D-10200	77165-74-3	Leukotriene D ₃ , <i>in</i> L-10047	78339-88-5	3-(15-Hexadecynylidene)dihydro-4-hydroxy-5-methyl-2(3 <i>H</i>)-furanone, <i>see</i> H-10044
75621-05-5	Fatsiaside D, <i>in</i> D-10212	77182-68-4	Trichilin C, <i>in</i> T-10108	78339-89-6	3-(15-Hexadecynylidene)dihydro-4-hydroxy-5-methyl-2(3 <i>H</i>)-furanone, <i>see</i> H-10044
75645-27-1	2-Acetamido-2-deoxy- β -D-glucopyranosyl-(1 \rightarrow 3)- β -D-galactopyranosyl-(1 \rightarrow 4)-D-glucose, <i>in</i> A-10068	77182-69-5	Trichilin A, <i>in</i> T-10108	78405-86-4	6,9-Pentadecadien-2-one; (6 <i>Z</i> ,9 <i>Z</i>)-form, <i>in</i> P-10030
75680-20-5	Plicatipyron, P-10124	77196-03-3	Trichilin D, <i>in</i> T-10108	78411-76-4	Robustol A, R-10040
75680-31-8	Ovaliflavanone C, <i>in</i> T-10189	77210-33-4	Trichilin B, T-10108	78516-98-0	Dehydrofalcarinol; Ac, <i>in</i> H-10022
75714-88-4	Taxifolin; (2 <i>R</i> ,3 <i>R</i>)-form, 3- <i>O</i> - β -D-Xylopyranoside, <i>in</i> P-10050	77249-85-5	Palisadin B, P-10003	78570-09-9	Fliaspongion, <i>in</i> D-10136
75716-00-6	Neuropogonic acid, <i>in</i> I-10037	77249-86-6	Palisadin A, <i>in</i> A-10109	78570-66-8	Gomphilactone, G-10108
75744-69-3	Amijidictyol, <i>in</i> D-10304	77250-03-4	12-Hydroxypalisadin B, <i>in</i> P-10003	78693-93-3	Soyasaponin A ₃ , <i>in</i> O-10031
75759-83-0	3-Ethylidene-6-(1 <i>H</i> -indol-3-ylmethyl)-1-methyl-2,5-piperazinedione; (S)-form, <i>in</i> E-10203	77250-04-5	5 β -Acetoxypalisadin B, <i>in</i> P-10003	78693-94-4	Soyasaponin A ₁ , <i>in</i> O-10031
75795-89-0	12-Hydroxy-24-methyl-24-oxo-16-scalaren-25-al; 12 β -form, <i>in</i> H-10187	77297-91-7	5,8,11,14-Eicosatetraenoic acid, <i>see</i> E-10009	78719-99-0	Camtschatcanidine, <i>in</i> S-10072
75796-14-4	Asebotoxin X, <i>in</i> G-10129	77298-66-9	2',7-Dihydroxyflavone, D-10164	78782-15-7	Papyriferic acid, <i>in</i> E-10057
75821-37-3	5-Hydroxyarborinine, <i>in</i> T-10036	77307-50-7	3'',4''-Diactylafzelin, <i>in</i> A-10030	78798-40-0	Ajugamarin A1, <i>in</i> E-10150
75872-78-5	3-(3,5-Hexadiynyl)- <i>N</i> -(2-phenylethenyl)oxiranecarboxamide, <i>in</i> E-10131	77327-15-2	2-Dotriacantanone, D-10307	78821-82-6	20-Isodihydrolanosterol, <i>in</i> L-10024
75885-75-5	3,7-Dihydroxy-4 <i>H</i> -1-benzopyran-4-one, D-10111	77355-68-1	15-Hydroxy-16-kauren-19-oic acid; (ent-15 α)-form, 3-Methyl-2-butenoyl, <i>in</i> H-10170	78834-97-6	3- <i>O</i> -Acetyltaxifolin, <i>in</i> P-10050
75899-53-5	Pieristoxin H, <i>in</i> E-10091	77390-47-7	4-Hydroxy-3,3',5,5',6,7-hexamethoxyflavone, <i>in</i> H-10026	78835-09-3	Kokzeylanonol, <i>in</i> D-10166
75903-04-7	Tenacigenin A, T-10016	77393-99-8	Sarcophytol E, <i>in</i> C-10051	78835-10-6	Kokzeylanol, <i>in</i> D-10166
75921-90-3	Asterogenin, <i>in</i> P-10141	77394-00-4	Sarcophytol D, <i>in</i> C-10048	78853-03-9	Grandiflorolic acid; 2-Methylpropenoyl, <i>in</i> H-10170
75961-66-9	Asbestinin epoxide, <i>in</i> A-10130	77396-64-6	Glycomarine, <i>in</i> S-10055	78876-51-4	3,3',4',5-Tetrahydroxy-7-prenyloxyflavanone, <i>in</i> P-10050
75995-21-0	3-Alloxyloxy-1-(2-hydroxy-4,6-dimethoxyphenyl)-1-butanone, <i>in</i> H-10234	77399-93-0	15-Hydroxy-16-kauren-19-oic acid; (ent-15 α)-form, Angeloyl, <i>in</i> H-10170	78916-53-7	Nimbandiol, N-10026
76014-34-1	17,20-Hexacosadienoic acid; (Z,Z)-form, <i>in</i> H-10036	77399-94-1	15-Hydroxy-16-kauren-19-oic acid; (ent-15 α)-form, Tigloyl, <i>in</i> H-10170	78916-54-8	Nimbinene, N-10027
76015-58-2	Onoseriolide, <i>in</i> S-10060	77485-24-6	5 β -Hydroxymethylakuammiline, <i>in</i> A-10036	78916-55-9	Deacetylnimbinene, <i>in</i> N-10027
76024-13-0	Pieristoxin K, <i>in</i> E-10090	77485-26-8	1,2 β -Dihydroakuammiline, <i>in</i> A-10036	78916-57-1	6-Acetylnimbandiol, <i>in</i> N-10026
76034-18-9	13-Deoxocarminomycin I, <i>in</i> F-10007	77485-27-9	Deacetyl-1,2 β -dihydroakuammiline, <i>in</i> A-10036	79081-71-3	8 β -Propionyloxy-10 β -hydroxyhirsutinolide 1,13-di- <i>O</i> -acetate, <i>in</i> E-10151
76036-12-9	Pieristoxin I, <i>in</i> G-10129	77485-29-9	Decentapicrin C, <i>in</i> S-10135	79097-22-6	3-Pentatriacontanone, P-10069
76215-49-1	Piptocarphin B, <i>in</i> E-10151	77533-66-5	Decentapicrin B, <i>in</i> S-10135	79097-23-7	3-Tritriacontanone, T-10205
76215-50-4	Piptocarphin C, <i>in</i> E-10151	77533-67-6	Decentapicrin A, <i>in</i> S-10135	79097-24-8	15-Hydroxyheneicosanoic acid, H-10157
76215-51-5	Piptocarphin D, <i>in</i> E-10151	77533-68-7	Tirucalicine, <i>in</i> I-10013	79105-74-1	32-Hydroxy-5-tetraatriacontanone, H-10233
76215-52-6	Piptocarphin E, <i>in</i> E-10151	77573-15-0	Okanin; 4'- <i>O</i> -[α -L-Arabinofuranosyl(1 \rightarrow 4)- β -D-glucopyranoside], <i>in</i> P-10040	79171-56-5	12-Hydroxy-5,8,10-heptadecatrienoic acid; (5 <i>Z</i> ,8 <i>E</i> ,10 <i>E</i> ,12 <i>S</i>)-form, Me ester, <i>in</i> H-10159
76215-53-7	Piptocarphin F, <i>in</i> E-10151	77587-43-0	14,15-Dihydroxy-5,8,10,12-eicosatetraenoic acid, D-10146	79250-60-5	5-[Tetrahydro-4-hydroxy-2-(3-hydroxy-1-octenyl)-6-oxo-2 <i>H</i> -pyran-3-yl]-3-pentenoic acid, T-10028
76248-63-0	Piptocarphin A, <i>in</i> E-10151	77667-09-5	α -L-Fucopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 4)-D-glucose; Pyranose-form, 2'',3'',4''-Tribenzyl, <i>in</i> F-10024	79339-34-7	5,7-Dihydroxy-3',4'-methylenedioxyflavone, <i>in</i> T-10052
76265-39-9	Izumenolide, I-10059	77704-66-6	4,14-Dimethylergosta-9(11),24(28)-dien-3-ol; (3 β ,4 α ,5 α)-form, <i>in</i> D-10272	79366-63-5	Luteolin 7-(caffeoylglucoside), <i>in</i> T-10052
76425-50-8	Papyriogenin F, <i>in</i> D-10211	77754-91-7	Chitraline, <i>in</i> P-10001	79383-28-1	Anhydrofusarubin, A-10088
76440-68-1	α -D-Rhamnopyranosyl-(1 \rightarrow 3)- α -D-rhamnopyranosyl-(1 \rightarrow 2)-D-rhamnose; β -Pyranose-form, <i>in</i> R-10025	77820-51-0	2,3,19-Trihydroxy-12-ursen-28-oic acid, <i>see</i> T-10194	79395-74-7	Faralatoside, <i>in</i> T-10123
76444-62-7	Murrayanol, <i>in</i> H-10026	77836-86-3	<i>O</i> -Geranyl sinapyl alcohol, <i>in</i> S-10065		
		77858-08-3	4-Methyl-3-hexanone; (R)-form, <i>in</i> M-10062		
		77943-83-0	Saponin C ₃ , <i>in</i> J-10007		
		77965-78-7	Flaccidoxide, <i>in</i> C-10049		
		77970-08-2	5,6-Dimethoxypongapin, <i>in</i> B-10014		

79406-09-0	16-Kaurene-3,19-diol; (<i>ent</i> -3 β)-form, 19-Carboxylic acid, 3-tigloyl, <i>in</i> K-10006	80395-90-0	<i>Escherichia coli</i> Signal peptide, S-10062	81601-69-6	3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol; (1 <i>R</i> ,2 <i>S</i> ,4 <i>S</i>)-form, 4-Methylbenzenesulfonyl, <i>in</i> D-10269
79406-10-3	16-Kaurene-3,19-diol; (<i>ent</i> -3 β)-form, 19-Carboxylic acid, 3-cinnamoyl, <i>in</i> K-10006	80398-75-0	Ereglomerulide, <i>in</i> D-10220	81601-70-9	3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol; (1 <i>R</i> ,2 <i>R</i> ,4 <i>S</i>)-form, <i>in</i> D-10269
79432-16-9	Brevigellin, B-10043	80418-24-2	Notoginsenoside R ₁ , <i>in</i> D-10009	81610-84-6	12-Hydroxy-5,8,10-heptadecatrienoic acid, <i>see</i> H-10159
79435-56-6	15-Hydroxy-16-kauren-19- <i>oic</i> acid; (<i>ent</i> -15 α)-form, 16 ξ ,17-Epoxyde,15-tigloyl, <i>in</i> H-10170	80418-25-3	Notoginsenoside R ₂ , <i>in</i> D-10009	81645-92-3	Taxifolin; (2 <i>R</i> ,3 <i>R</i>)-form, 3- <i>O</i> -[β -D-Glucopyranosyl(1 \rightarrow 4)- α -L-rhamnopyranoside], <i>in</i> P-10050
79466-09-4	Feudomycin A, F-10007	80445-66-5	5,12-Dihydroxy-6,8,10,14,17-eicosapentaenoic acid, D-10145	81689-25-0	3- <i>O</i> - β -D-Glucopyranosyl-L-rhamnose, <i>see</i> G-10071
79495-84-4	8-Hydroxy-5,9,11,14-eicosatetraenoic acid, <i>see</i> H-10129	80453-44-7	Padmatin, <i>in</i> P-10050	81692-25-3	1-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol; (1 <i>RS</i> ,2 <i>RS</i> ,3 <i>SR</i> ,4 <i>RS</i>)-form, Penta-Ac, <i>in</i> H-10180
79495-88-8	Ivain IV, <i>in</i> T-10122	80489-90-3	2-Hydroxy-4-methoxy-6-(2-phenylethyl)-3-prenylbenzoic acid, <i>in</i> D-10236	81739-27-7	Stachyurin, <i>in</i> C-10036
79495-89-9	Ivain III, <i>in</i> T-10122	80489-91-4	2-Hydroxy-4-methoxy-6-pentyl-3-prenylbenzoic acid, <i>in</i> D-10225	81793-76-2	Sapopyroside, <i>in</i> D-10098
79522-98-8	β -D-Mannopyranosyl-(1 \rightarrow 4)- α -D-galactopyranosyl-(1 \rightarrow 4)-L-rhamnose, M-10011	80489-92-5	3-Methoxy-5-pentyl-2-prenylphenol, <i>in</i> P-10073	81826-97-3	Gibberellin A ₆₀ , <i>in</i> G-10030
79548-63-3	Norswertianine; 1,2,6-Tri-Me ether, 8-primeveroside, <i>in</i> T-10073	80525-48-0	Ergostane-3,5,6,7-tetrol; (3 β ,5 α ,6 β ,7 β ,24 <i>S</i>)-form, <i>in</i> E-10181	81826-98-4	Gibberellin A ₆₁ , G-10030
79551-81-8	14,15-Dihydroxy-5,8,11-eicosatrienoic acid, D-10150	80535-88-2	Palliferinin, <i>in</i> D-10132	81826-99-5	Gibberellin A ₆₂ , <i>in</i> G-10030
79568-28-8	Ivain I, <i>in</i> T-10122	80535-89-3	Palliferin, <i>in</i> D-10132	81918-96-9	14,15-Leukotriene A ₄ , <i>in</i> E-10077
79695-13-9	Leukotriene D ₅ , <i>in</i> L-10047	80565-10-2	20-Hydroxyrutacridone epoxide, <i>in</i> R-10062	81920-18-5	Obtusallene I, O-10003
79728-54-4	10-Hydroxy-8-decenoic acid, H-10109	80565-16-8	Lucidin†, <i>see</i> D-10180	81920-20-9	5,6-Dihydroxy-8,11,14-eicosatrienoic acid, D-10147
79768-40-4	11- <i>trans</i> -Leukotriene D ₄ , <i>in</i> L-10047	80597-53-1	7-Acetyl-2,8-dimethoxy-6-methyl-1,4-naphthoquinone, <i>in</i> A-10017	81943-03-5	8,9-Dihydroxy-5,11,14-eicosatrienoic acid, D-10149
79777-86-9	2-Hydroxy-8,11,13-abetatrien-18- <i>oic</i> acid; 2 β -form, <i>in</i> H-10081	80597-54-2	7-Acetyl-2,8-dihydroxy-6-methyl-1,4-naphthoquinone, A-10017	81980-37-2	Ingol; 12-Tigloyl, 3,7-di-Ac, <i>in</i> T-10013
79786-01-9	Casuarinin, C-10036	80604-16-6	2',5,6',7-Tetrahydroxyflavanone; (S)-form, <i>in</i> T-10050	81988-77-4	Paulomycin A, P-10016
79786-04-2	Casuarin, <i>in</i> C-10036	80651-74-7	Ajugasterone D, <i>in</i> E-10142	82001-38-5	Glucogenin C, G-10039
79849-98-2	Shikokiaside A, <i>in</i> E-10119	80666-65-5	Hederagenin; 3- <i>O</i> -[α -L-Arabinopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside], <i>in</i> D-10212	82001-46-5	Glucogenin C; 3- <i>O</i> - β -D-Thevetoside, <i>in</i> G-10039
79858-81-4	Apressin, <i>in</i> E-10027	80680-43-9	Neosurugatoxin, N-10022	82054-20-4	Fumaritine N-methosalt, <i>in</i> F-10027
79863-23-3	Lapidol, <i>in</i> D-10132	80699-43-0	Populin; 3-(<i>O</i> -Caffeoyl- β -D-glucopyranoside), <i>in</i> P-10133	82083-98-5	Zierinxylloside, <i>in</i> H-10166
79863-24-4	Lapidin, <i>in</i> D-10132	80736-02-3	Populin; 3- <i>O</i> -(<i>p</i> -Coumaroylrutinoside), <i>in</i> P-10133	82189-88-6	▶ Ancistrocline, <i>in</i> A-10084
79886-50-3	1,2,3,6-Tetragalloylglucose; β -D-Pyranose-form, <i>in</i> T-10024	80764-19-8	Asterosaponin P ₁ , <i>in</i> C-10091	82202-95-7	Senbusine A, S-10046
79901-66-9	8-(15-Hydroxypentadecyl)-7-methoxy-2 <i>H</i> -benzopyran-2-one, <i>in</i> H-10165	80949-77-5	3-(4-Isopropylphenyl)-2-methylpropanal, <i>see</i> I-10049	82209-76-5	Andrographiside, <i>in</i> T-10156
79995-67-8	3,3',5'-Trihydroxy-4',7'-dimethoxyflavanone, <i>in</i> P-10050	81037-22-1	Monticoline, <i>in</i> M-10089	82225-47-6	Ajugarin IV, <i>in</i> H-10101
80135-40-6	Teuhircoside, T-10079	81047-05-4	Monticamine, M-10089	82263-59-0	14,15-Epoxy-5,8,10,12-eicosatetraenoic acid, <i>see</i> E-10077
80138-56-3	Rabdosichuanin D, <i>in</i> E-10119	81074-97-7	Taxifolin; (2 <i>R</i> ,3 <i>R</i>)-form, 5- <i>O</i> - β -D-Galactopyranoside, <i>in</i> P-10050	82263-60-3	14,15-Dihydroxy-5,8,10,12-eicosatetraenoic acid; (5 <i>Z</i> ,8 <i>Z</i> ,10 <i>E</i> ,12 <i>E</i> ,14 <i>S</i> ,15 <i>S</i>)-form, <i>in</i> D-10146
80138-68-7	Rabdosianin B, <i>in</i> E-10119	81118-18-5	Dihydropergillin, <i>in</i> P-10079	82263-61-4	14,15-Dihydroxy-5,8,10,12-eicosatetraenoic acid; (5 <i>Z</i> ,8 <i>Z</i> ,10 <i>E</i> ,12 <i>E</i> ,14 <i>R</i> ,15 <i>S</i>)-form, <i>in</i> D-10146
80138-69-8	Rabdosianin A, <i>in</i> E-10119	81126-80-9	2,4,5,6,7-Pentahydroxy-1-methoxy-3-methylanthraquinone, <i>in</i> H-10057	82278-46-4	Avileurekanose A, A-10144
80220-30-0	PLMF 1, <i>in</i> P-10081	81126-82-1	1,2,4,5,6,7-Hexamethoxy-3-methylanthraquinone, <i>in</i> H-10057	82292-50-0	1-Hydroxy-4(15)-eudesmen-12,6-olide; (1 α ,6 α ,11 β H)-form, <i>in</i> H-10143
80248-79-9	Stenantine, <i>in</i> S-10072	81202-52-0	Trifolin†; 6'- <i>O</i> -Malonyl, <i>in</i> T-10123	82425-35-2	Euphorbia factor Pe ₁ , <i>in</i> I-10012
80248-81-3	Stenantidine, <i>in</i> S-10072	81265-03-4	6,9-Heptadecadiene, H-10016	82508-73-4	16-Kaurene-3,19-diol, <i>see</i> K-10006
80293-76-1	Ervafolidine, E-10190	81265-04-5	3,6,9-Heptadecatriene, H-10020	82517-11-1	Taxifolin, <i>see</i> P-10050
80293-77-2	19' <i>R</i> -Hydroxyervafolidine, <i>in</i> E-10190	81275-83-4	4-Methylergost-7-en-3-ol, <i>see</i> M-10056	82526-29-2	Uvidin F, <i>in</i> D-10309
80293-78-3	19' <i>S</i> -Hydroxy-3-epiervafolidine, <i>in</i> E-10190	81276-02-0	11,12-Epoxy-5,8,14-eicosatrienoic acid, E-10079	82620-99-3	Antibiotic L 681110B ₁ , <i>in</i> B-10005
80321-59-1	Gynosaponin B, <i>in</i> D-10011	81317-15-9	Phospholipase A ₂ , P-10103	82667-93-4	Rheediachromenoxanthone, R-10030
80321-60-4	Gynosaponin E, <i>in</i> D-10011	81427-04-5	Ingol; 12-Tigloyl, 3,7,8-tri-Ac, <i>in</i> I-10013	82741-64-8	1-Hexatriacontanol, H-10066
80321-61-5	Gynosaponin F, <i>in</i> D-10011	81445-17-2	4-Methylergost-7-en-3-ol, <i>see</i> M-10056	82793-02-0	Azukisaponin I, <i>in</i> O-10024
80321-62-6	Gynosaponin G, <i>in</i> D-10011	81474-88-6	Glaucoside E, <i>in</i> G-10039	82890-78-6	Artemisinin, C-10006
80321-63-7	Gynosaponin I, <i>in</i> D-10011	81509-30-0	Prehelimthosporol; Ac, <i>in</i> P-10142	82928-12-9	Linalool; (S)-form, 3- <i>O</i> - β -D-Glucopyranoside, <i>in</i> D-10279
80321-64-8	Gynosaponin K, <i>in</i> D-10011	81531-38-6	1,2,4,5,7,8-Hexathionane, H-10063	83023-72-7	5,6,7,8-Tetrahydrobiopterin, <i>see</i> T-10025
80321-65-9	Gynosaponin O, <i>in</i> D-10010	81531-39-7	1,2,4,5,7-Pentathiocane, P-10065	83053-47-8	4-Hydroxyphenylacetic acid; K salt, <i>in</i> H-10215
80321-66-0	Gynosaponin P, <i>in</i> D-10010	81531-40-0	1,2,4,5,7-Pentathiocane, <i>see</i> P-10065	83097-23-8	Tricin; 7- <i>O</i> -Triglucuronoside, <i>in</i> T-10140
80321-67-1	Gynosaponin Q, <i>in</i> D-10011	81545-69-9	Gravacridonol, <i>in</i> R-10062	83097-44-3	Tricin; 7- <i>O</i> -Diglucuronoside, <i>in</i> T-10140
80321-68-2	Gynosaponin R, <i>in</i> D-10011	81575-40-8	Beogradolide B, <i>in</i> D-10159	83108-09-2	Calocin, <i>in</i> P-10139
80321-69-3	Gynosaponin S, <i>in</i> D-10011	81575-41-9	Beogradolide A, <i>in</i> D-10159	83108-12-7	Calogenin, <i>in</i> P-10139
80321-70-6	Gynosaponin T, <i>in</i> D-10010	81585-98-0	12-Hydroxy-5,8,10-heptadecatrienoic acid, <i>see</i> H-10159	83144-68-7	Trifolin†; 2'- <i>O</i> - β -D-Xylopyranoside, <i>in</i> T-10123
80321-71-7	Gynosaponin U, <i>in</i> D-10010				
80324-88-5	Rotundiside, <i>in</i> T-10052				
80325-21-9	Gynosaponin A, <i>in</i> D-10011				
80325-22-0	Gynosaponin M, <i>in</i> D-10011				
80330-76-3	Gynosaponin J, <i>in</i> D-10011				
80330-77-4	Gynosaponin N, <i>in</i> D-10011				
80338-95-0	3-Epiervafolidine, <i>in</i> E-10190				
80358-01-6	Luteolin; 5- <i>O</i> - β -D-Glucuronoside, <i>in</i> T-10052				
80377-59-9	2,3- <i>trans</i> -Ereglomerulide, <i>in</i> D-10220				
80377-60-2	2,3-Dihydro-3 β -hydroxyereglomerulide, <i>in</i> T-10179				

83145-47-5	3-Hydroxymethylene-tanshinquinone, <i>in</i> E-10106	84711-16-0	<i>ent</i> -16 α ,17-Kauranediol, <i>in</i> K-10003	86450-76-2	Shanzhiside; 6-(4-Hydroxy-3,5-dimethoxybenzoyl), 8-Ac, Me ester, <i>in</i> S-10057
83159-18-6	Lathycarpin, <i>in</i> P-10062	84716-74-5	Ervafolidene, <i>in</i> E-10190	86450-77-3	Sangganon K, S-10011
83159-26-6	<i>O</i> -Methylshikoccin, <i>in</i> S-10058	84774-04-9	Epiervafolidene, <i>in</i> E-10190	86450-78-4	Sangganon J, S-10010
83159-27-7	Epoxyshikoccin, <i>in</i> S-10058	84799-25-7	<i>ent</i> -16 α ,17-Kauranediol; 17-Ac, <i>in</i> K-10003	86500-79-0	12-Oleanene-3,22-diol, <i>see</i> O-10024
83159-28-8	<i>O</i> -Methylepoxyshikoccin, <i>in</i> S-10058	85066-78-0	Norrisolide, N-10051	86500-80-3	12-Oleanene-3,22-diol, <i>see</i> O-10024
83170-31-4	Trifolin†; 6'- <i>O</i> -[α -L-Rhamnopyranosyl-(1 \rightarrow 3)- α -L-rhamnopyranoside], <i>in</i> T-10123	85081-10-3	6,14-Dihydroxy-1(10),4,11(13)-germacatrien-12,8-olide, <i>see</i> D-10172	86578-99-6	Ferrulactone II, <i>in</i> M-10078
83212-30-0	Rhynchophorol, <i>see</i> M-10058	85199-90-2	3- <i>O</i> -Digalloyl-1,2,4,6-tetra- <i>O</i> -galloyl- β -D-glucopyranose, <i>in</i> P-10035	86630-38-8	Pentagydine, P-10036
83299-91-6	Populnin; 3-(<i>O</i> -Feruloyl- β -D-glucopyranoside), <i>in</i> P-10133	85199-91-3	2,3-Di- <i>O</i> -digalloyl-1,4,6-tri- <i>O</i> -galloyl- β -D-glucopyranose, <i>in</i> P-10035	86631-33-6	11-Methyl-3-undecenolide, <i>see</i> M-10078
83348-17-8	6-Hydroxy-4,6-dimethyl-3-hepten-2-one, H-10112	85249-26-9	2- <i>O</i> -Digalloyl-1,3,4,6-tetra- <i>O</i> -galloyl- β -D-glucopyranose, <i>in</i> P-10035	86631-43-8	Catechin(2 β \rightarrow 7,4 β \rightarrow 8)- <i>ent</i> -epicatechin(4 β \rightarrow 8)catechin, <i>in</i> P-10054
83459-41-0	Ginsenoside R ₁₁ , <i>in</i> D-10011	85249-28-1	3,4-Di- <i>O</i> -digalloyl-1,2,6-tri- <i>O</i> -galloyl- β -D-glucopyranose, <i>in</i> P-10035	86660-09-5	4,6-Dihydroxy-3-prenyl-2-styrylbenzoic acid, <i>see</i> D-10250
83459-42-1	Ginsenoside R ₁₂ , <i>in</i> D-10011	85249-29-2	2,4-Di- <i>O</i> -digalloyl-1,3,6-tri- <i>O</i> -galloyl- β -D-glucopyranose, <i>in</i> P-10035	86660-10-8	2,4-Dihydroxy-3-prenyl-6-styrylbenzoic acid, <i>see</i> D-10249
83459-47-6	<i>N</i> -Carbamoylasimilobine, <i>in</i> A-10132	85249-60-1	3- <i>O</i> -Trigalloyl-1,2,4,6-tetra- <i>O</i> -galloyl- β -D-glucopyranose, <i>in</i> P-10035	86695-18-3	Tatsiensine, <i>in</i> D-10033
83482-58-0	Demethoxyrapamycin, <i>in</i> R-10007	85269-24-5	Betaenone F, <i>in</i> B-10017	86695-19-4	Deacetylatsiensine, <i>in</i> D-10033
83566-20-5	2-[6-(3-Nitropropanoyl)- β -D-glucopyranosyl]-3-isoxazolin-5-one, <i>in</i> I-10058	85269-25-6	Betaenone C, <i>in</i> B-10017	86699-52-7	Chamaecydinol, <i>in</i> C-10064
83648-98-0	Isoglucodistylin, <i>in</i> P-10050	85269-45-0	3- <i>O</i> - α -D-Glucopyranuronosyl-D-xylose, G-10086	86699-53-8	Isochamaecydin, <i>in</i> C-10064
83680-48-2	Taxifolin, <i>see</i> P-10050	85335-06-4	Longicaudatine, L-10060	86709-52-6	6- <i>O</i> -Digalloyl-1,2,3-tri- <i>O</i> -galloyl- β -D-glucopyranose, <i>in</i> T-10024
83709-59-5	5,6,7,8-Tetrahydrobiopterin, <i>see</i> T-10025	85354-71-8	24,25-Epoxy-24-methyl-16-scalarene-12,22,25-triol; (12 α ,25 ξ)- <i>form</i> , <i>in</i> E-10129	86746-82-9	Chamaecydin, C-10064
83716-65-8	3-(2-Methylphenyl)-2-propenoic acid, <i>see</i> M-10068	85394-12-3	Pulverochromenol, P-10170	86747-19-5	1,2,3,4,6-Pentagalloylglucose, <i>see</i> P-10035
83725-39-7	3 α -Hydroxy-20(29)-lupene-23,28-dioic acid, <i>in</i> D-10193	85431-42-1	Vernostipulal A, <i>in</i> H-10136	86747-20-8	6- <i>O</i> -Trigalloyl-1,2,3,4-tetra- <i>O</i> -galloyl- β -D-glucopyranose, <i>in</i> P-10035
83790-33-4	Mortonol B, <i>in</i> P-10045	85431-43-2	Vernostipulal B, <i>in</i> H-10136	86812-44-4	<i>N</i> ¹ -(3-Aminopropyl)homospermidine, <i>in</i> D-10045
83851-38-1	Leukotriene A ₃ ; Me ester, <i>in</i> E-10078	85447-28-5	Ajugamarin B1, <i>in</i> E-10150	86861-69-0	1-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol; (1 <i>RS</i> ,2 <i>RS</i> ,3 <i>SR</i> ,4 <i>RS</i>)- <i>form</i> , 3,4,7-Tri-Ac, <i>in</i> H-10180
83864-75-9	Prosapogenin CP ₀ , <i>in</i> D-10212	85514-31-4	Rosmadial, R-10050	87005-03-6	Panaxatriol, H-10024
83903-38-2	Coproporphyrin III, <i>see</i> C-10126	85527-46-4	Terminalic acid, T-10017	87021-36-1	3-Hydroxy-4,5-dimethyl-2(5 <i>H</i>)-furanone, H-10111
83905-82-2	7,13,15-Abietatrien-18-oic acid, A-10009	85537-35-5	Rapamycin, <i>see</i> R-10007	87042-28-2	1,3-Hexahydroxydiphenylglucose; β -D-Pyranose- <i>form</i> , 4',4'-Di-Me ether, <i>in</i> H-10055
84093-63-0	5-Hydroxygeranylinalol, <i>in</i> P-10110	85710-39-0	Aromadendrene epoxide, <i>in</i> A-10125	87068-69-7	3-Hydroxy-4,5-dimethyl-2(5 <i>H</i>)-furanone; (S)- <i>form</i> , <i>in</i> H-10111
84093-65-2	5,9-Diacetoxygeranylinalol, <i>in</i> P-10110	85756-55-4	Antibiotic MG 299B, <i>in</i> I-10059	87068-70-0	3-Hydroxy-4,5-dimethyl-2(5 <i>H</i>)-furanone; (R)- <i>form</i> , <i>in</i> H-10111
84093-66-3	13-Acetoxy-5-hydroxygeranylinalol, <i>in</i> P-10110	85756-56-5	Antibiotic MG 299A, <i>in</i> I-10059	87314-41-8	25-Hydroxy-6-dotriacontanone, H-10123
84093-67-4	14,15-Dihydro-14,15-dihydroxygeranylinalol, <i>in</i> P-10112	85758-28-7	Tanaparthin β -peroxide, <i>in</i> E-10027	87340-27-0	Triangularine, T-10104
84093-68-5	1,6,10-Phytatriene-3,5,14,15-tetral, <i>in</i> P-10112	85760-81-2	Alloaromadendrene epoxide, <i>in</i> A-10125	87376-65-6	Teuscorodin, <i>in</i> D-10074
84093-69-6	14,15-Dihydro-14,15-dihydroxygeranylinalol; 9-Acetoxy, <i>in</i> P-10112	85783-98-8	Ercinamine, <i>in</i> A-10036	87387-83-5	2-Methoxy-3-(4-methoxyphenyl)propanoic acid, <i>in</i> H-10167
84272-81-1	Cynanchoside C, <i>in</i> T-10066	85799-10-6	Tanaparthin α -peroxide, <i>in</i> E-10027	87392-67-4	Neotriangularine, <i>in</i> T-10104
84283-55-6	Ingenol; 20-Deoxy, 3-(2 <i>E</i> ,4 <i>Z</i> ,6-decatrienoyl), <i>in</i> I-10012	85908-67-4	2,5,6-Tribromo-1-methyl-1 <i>H</i> -indole-3-carboxaldehyde, <i>in</i> T-10106	87402-83-3	6-Hydroxy-4-methoxy-3-(3-methyl-2-butenyl)-2-(2-phenylethenyl)benzoic acid, <i>in</i> D-10250
84283-56-7	Euphorbia factor H ₇ , <i>in</i> I-10012	85933-23-9	Populnin; 6'- <i>O</i> -(3,4,5-Trihydroxybenzoyl), <i>in</i> P-10133	87402-84-4	2-Hydroxy-4-methoxy-3-(3-methyl-2-butenyl)-6-(2-phenylethenyl)benzoic acid, <i>in</i> D-10249
84305-05-5	8 α -Hydroxybalchanin, <i>in</i> D-10159	85994-79-2	<i>O</i> -Prenylpluviatilol, <i>in</i> P-10120	87421-30-5	Chuangxinol, <i>see</i> B-10054
84306-88-7	Dihydropentagynine, <i>in</i> B-10021	85999-40-2	Anemosapogenin, <i>in</i> D-10193	87441-78-9	Ajugapitin, <i>in</i> T-10122
84306-91-2	Pentagynine, <i>in</i> P-10036	86157-99-5	1-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol; (1 <i>RS</i> ,2 <i>RS</i> ,3 <i>SR</i> ,4 <i>RS</i>)- <i>form</i> , 2,3,4,7-Tetra-Ac, <i>in</i> H-10180	87441-79-0	Schkuhroidin, <i>in</i> D-10172
84325-07-5	Coproporphyrin III, <i>see</i> C-10126	86195-44-0	5-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol; (1 <i>RS</i> ,2 <i>RS</i> ,3 <i>RS</i> ,4 <i>SR</i>)- <i>form</i> , <i>in</i> H-10181	87562-05-8	Hederagenin; 3- <i>O</i> -(2- <i>O</i> -Acetyl- α -L-arabinopyranoside), <i>in</i> D-10212
84375-47-3	5-Acetonyl-6-glucosyl-7-hydroxy-2-methyl-4 <i>H</i> -1-benzopyran-4-one, A-10013	86195-45-1	5-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol; (1 <i>RS</i> ,2 <i>SR</i> ,3 <i>SR</i> ,4 <i>SR</i>)- <i>form</i> , <i>in</i> H-10181	87571-01-5	Roseamine, <i>in</i> L-10049
84423-08-5	Porveniramine, <i>in</i> P-10001	86282-92-0	15-Hydroxy-5,8,11,13,17-ecosapentaenoic acid; (5 <i>E</i> ,8 <i>Z</i> ,11 <i>Z</i> ,13 <i>Z</i> ,15 <i>S</i> ,17 <i>Z</i>)- <i>form</i> , <i>in</i> H-10128	87583-37-7	11-Methyl-3-undecenolide, <i>see</i> M-10078
84423-09-6	1- <i>O</i> -Methylchitraline, <i>in</i> P-10001	86288-11-1	1- <i>O</i> -Hexadecyl-2- <i>O</i> -arachidonoyl- <i>sn</i> -glycero-3-phosphocholine, H-10039	87583-38-8	11-Methyl-3-undecenolide; (\pm)-(Z)- <i>form</i> , <i>in</i> M-10078
84543-10-2	Populnin; 3- <i>O</i> -Gentiobioside, <i>in</i> P-10133	86408-20-0	Perforatin B, <i>in</i> D-10181	87605-72-9	Cucujolide II, <i>in</i> M-10078
84563-91-7	Nivyaside, N-10033	86432-14-6	Pfaffic acid, P-10091	87605-73-0	Vismione D, <i>in</i> D-10102
84607-60-3	Hederagenin; 3- <i>O</i> -[α -L-Arabinofuranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside], <i>in</i> D-10212			87605-92-3	Vismione E, <i>in</i> V-10032
84607-62-5	Subergoric acid, <i>see</i> O-10063			87605-92-3	<i>N</i> ² -(2-Hydroxysuccinoyl)arginine, H-10227
84607-63-6	PLMF 2, <i>in</i> P-10081			87606-98-2	GSN (as disodium salt), <i>in</i> G-10113
84638-37-9	▶ Euphorbia factor E ₃ , <i>in</i> I-10012			87617-83-2	Vismione C, V-10032
84638-44-8	10-Hydroxyoleuropein, <i>in</i> O-10033			87687-74-9	PLMF 3, <i>in</i> P-10081
84678-18-2	<i>ent</i> -16 α -Methoxy-17-kauranol, <i>in</i> K-10003			87700-13-8	PLMF 4, <i>in</i> P-10081
84679-85-6	Harappamine, H-10003			87725-70-0	Trichilin B, <i>see</i> T-10108
84680-59-1	▶ Euphorbia factor E ₁ , <i>in</i> I-10012			87733-57-1	Shinjulactone E, <i>in</i> H-10095
84680-60-4	▶ Euphorbia factor E ₂ , <i>in</i> I-10012				

87733-66-2	Ginsenoside Rs ₂ , in D-10011	89286-84-0	11- <i>trans</i> -Leukotriene C ₄ ; Me-ester, in L-10046	91377-10-5	Kaempferol 3,5-digalactoside, in T-10123
87733-67-3	Ginsenoside Rs ₁ , in D-10011	89332-48-9	Pericyclomenoside, in L-10059	91382-92-2	Steffimycin, see S-10109
87733-76-4	Mukurozisosaponin Y ₁ , in D-10212	89354-63-2	Rabdolatifolin, in S-10058	91413-67-1	Euphorbia factor P ₃ , in I-10012
87781-78-6	Mukurozisosaponin E ₁ , in D-10212	89382-36-5	Quamoclitic acid, in H-10160	91413-68-2	Euphorbia factor P ₅ , in I-10012
87791-73-9	Leukotriene A ₃ , E-10078	89410-73-1	14,15-Dihydroxy-5,8,11-eicosatrienoic acid; (5Z,8Z,11Z,14R,15S)-form, in D-10150	91413-69-3	Euphorbia factor P ₆ , in I-10012
87823-32-3	2,3,6-Tri- <i>O</i> -digalloyl-1,4-di- <i>O</i> -galloyl-β-D-glucopyranose, in P-10035			91413-71-7	Euphorbia factor P ₈ , in I-10012
87827-55-2	Alismol, in G-10131	89410-74-2	14,15-Dihydroxy-5,8,11-eicosatrienoic acid; (5Z,8Z,11Z,14S,15S)-form, in D-10150	91413-73-9	5-Angeloyl-20-deoxyingenol, in I-10012
87860-74-0	3,6-Di- <i>O</i> -digalloyl-1,2,4-tri- <i>O</i> -galloyl-β-D-glucopyranose, in P-10035			91431-62-8	Euphorbia factor P ₉ , in I-10012
87861-31-2	4,6-Di- <i>O</i> -digalloyl-1,2,3-tri- <i>O</i> -galloyl-β-D-glucopyranose, in P-10035	89410-77-5	14,15-Dihydroxy-5,8,10,12-eicosatetraenoic acid, see D-10146	91464-81-2	Ingenol, see I-10012
87861-32-3	2,6-Di- <i>O</i> -digalloyl-1,3,4-tri- <i>O</i> -galloyl-β-D-glucopyranose, in P-10035	89410-78-6	14,15-Dihydroxy-5,8,10,12-eicosatetraenoic acid, see D-10146	91464-82-3	Ingenol, see I-10012
87946-74-5	Specionin†, see S-10085	89613-25-2	(5,6′)-Bismesquitol, in P-10053	91464-83-4	Ingenol, see I-10012
87980-51-6	1,3,8-Trihydroxy-2-methylanthraquinone; 3- <i>O</i> -Rutinoside, in T-10161	89647-87-0	Integrifolin, in D-10175	91488-37-8	Chlorophyll RCI, in C-10084
87989-22-8	15-Acetoxy-6S,7S-epoxy-2Z-humulene, in E-10097	89690-09-5	1,4-Butanediamine; <i>N</i> -Me; B ₂ HCl, in B-10051	91599-28-9	Tarenine†, in S-10057
87989-23-9	6,7-Epoxy-2-humulene-1-ol; (1S,2Z,6S,7S)-form, in E-10097	89690-10-8	1,4-Butanediamine; <i>N</i> -Et, in B-10051	91625-64-8	Aurantigenin, in S-10102
88082-60-4	Cinnamtannin B ₁ , in P-10054	89734-07-6	α-L-Rhamnopyranosyl-(1→2)-α-L-rhamnopyranosyl-(1→3)-L-rhamnose, R-10027	91652-21-0	Tupisgenin, in E-10088
88099-35-8	Leukotriene B ₃ , D-10148	89748-04-9	α-D-Rhamnopyranosyl-(1→2)-α-L-rhamnopyranosyl-(1→3)-L-rhamnose, R-10026	91794-15-9	Foresticine, in S-10046
88100-00-9	Zizyrammin, in J-10007			91851-46-6	Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, in H-10076
88100-04-3	Notoginsenoside F _{8a} , in D-10011	89899-79-6	Graecunin F, G-10120	91851-47-7	34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, in E-10202
88105-29-7	Notoginsenoside F ₉ , in D-10011	89915-54-8	Tricin; 7- <i>O</i> -[α-L-Rhamnopyranosyl-(1→2)-α-D-galacturonoside], in T-10140	91851-48-8	Huratoxin; 6,7-Deepoxy, 6-hydroxy, 7-chloro, 2′,3′,4′,5′-tetrahydro, in H-10076
88122-52-5	Notoginsenoside F ₈ , in D-10011			91851-49-9	34-Ethylhuratoxin; 6,7-Deepoxy, 6-hydroxy, 7-chloro, 15,16,22,23,24,25-hexahydro, in E-10202
88123-45-9	β-D-Xylopyranosyl-(1→6)-β-D-glucopyranosyl-(1→4)-D-glucose, X-10012	89919-57-3	2-Hydroxy-3-(4-hydroxyphenyl)propanoic acid; (<i>R</i>)-form, in H-10167	91851-50-2	34-Ethylhuratoxin; 6,7-Deepoxy, 6-hydroxy, 7-chloro, 15,16,22,23,24,25-hexahydro, 5,20-di-Ac, in E-10202
88147-99-3	Isorheediexanthone B, I-10050			91851-51-3	Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-pentadecanoyl, in H-10076
88153-63-3	1,9,16-Heptadecatriene-4,6-diyn-3-ol, H-10022	89951-13-3	Dammara-20(22),24-diene-3,12-diol, see D-10003	91851-52-4	34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-pentadecanoyl, in E-10202
88204-92-6	Nishindaside, N-10028	89955-50-0	4,14-Dimethylergosta-8,24(28)-dien-3-ol, see D-10271	91851-53-5	Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-hexadecanoyl, in H-10076
88235-61-4	Uzarioside, in U-10020	89984-05-4	Ingol; <i>O</i> ⁷ -Benzoyl, <i>O</i> ⁸ -Me, 3,12-di-Ac, in I-10013	91851-54-6	34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-hexadecanoyl, in E-10202
88262-77-5	Euphorbia factor Q ₁ , in I-10012	89984-06-5	Ingol; 7-Tigloyl, <i>O</i> ⁸ -Me, 3,12-di-Ac, in I-10013	91851-55-7	Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-octadecanoyl, in H-10076
88434-20-2	Forbeside A, in T-10135	90027-10-4	Ingol; 7-Angeloyl, <i>O</i> ⁸ -Me, 3,12-Di-Ac, in I-10013	91851-56-8	34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-octadecanoyl, in E-10202
88477-80-9	Pyrraculomycin, in A-10020	90041-98-8	Grandiflorolic acid; 2-Methylbutanoyl, in H-10170	91851-57-9	Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-eicosanoyl, in H-10076
88515-58-6	Rosamultin, in T-10194	90042-92-5	Bafilomycin D ₂ , in B-10005	91851-58-0	34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-eicosanoyl, in E-10202
88607-64-1	10-Methoxy-β-yohimbine, in M-10042	90044-34-1	Sambucosin, S-10009	91851-59-1	Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-docosanoyl, in H-10076
88644-43-3	10-Methoxy-17-epialloyohimbine, in M-10042	90080-08-3	11,12-Epoxy-5,8,14-eicosatrienoic acid; (5Z,8Z,11S,12R,14Z)-form, Me ester, in E-10079	91851-60-4	34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-docosanoyl, in E-10202
88653-68-3	Neoliacine, in D-10076			91851-61-5	Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-tetracosanoyl, in H-10076
88664-25-9	Epoxyangeloxygrandifloric acid, in H-10170	90131-02-5	Sesquiceneol, S-10051	91851-62-6	34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-tetracosanoyl, in E-10202
88668-49-9	10-Methoxy-α-yohimbine, in M-10042	90141-22-3	Gossypol, see G-10113	91851-63-7	Huratoxin; 5-Deoxy, 6,7-deepoxy, 6,7-didehydro, 20-hexacosanoyl, in H-10076
88693-90-7	3-Methyl-2-cyclohexen-1-one, see M-10050	90365-58-5	Anwuweizic acid, in H-10171	91851-64-8	34-Ethylhuratoxin; 5-Deoxy, 6,7-deepoxy, 6,7,26,27-tetrahydro, 20-hexacosanoyl, in E-10202
88720-99-4	19S-Vindolinine <i>N</i> -oxide, in V-10024	90366-07-7	5,6,7,8-Tetrahydrobiopterin, see T-10025	91851-65-9	5,20-Diacetylhuratoxin, in H-10076
88840-01-1	Xestospongin B, X-10010	90457-38-8	Dihydrochiapagenin, in S-10099	91851-66-0	34-Ethylhuratoxin; 26,27-Didehydro, 5,20-di-Ac, in E-10202
88849-97-2	Luteolin; 7- <i>O</i> - (Sulfoxyglucuronoside), in T-10052	90475-66-4	Graciline, in P-10036		
88849-98-3	Tricin; 7- <i>O</i> -(Sulfoxy-β-D-glucuronoside), in T-10140	90524-90-6	28-Homoteasterone, in T-10192		
88852-33-9	15-Hydroxy-5,8,11,13,17-eicosapentaenoic acid, see H-10128	90584-30-8	Dihydroerycomalactone, in E-10232		
88852-50-0	14,15-Epoxy-5,8,10,12-eicosatetraenoic acid, see E-10077	90605-25-7	5,6-Dehydroerycomalactone, in E-10232		
88861-90-9	Soulangianolide B, in D-10172	90689-37-5	1- <i>O</i> -α-D-Glucopyranosyl-D-fructose; β-Pyranose-form, in G-10043		
88899-16-5	Betaenone D, B-10017	90695-04-8	Pallinin, in D-10020		
88899-54-1	Bafilomycin A ₂ , in B-10005	90718-33-5	Yunnadelphinine, in D-10033		
88899-55-2	Bafilomycin A ₁ , B-10005	90730-85-1	Ternifolin, in E-10119		
88899-57-4	Bafilomycin D ₁ , in B-10005	90745-17-8	Pfaffoside A, in P-10091		
88899-58-5	Bafilomycin D ₁ , in B-10005	90745-18-9	Pfaffoside B, in P-10091		
89029-12-9	5,7-Dimethoxy-3′,4′-methylenedioxyflavone, in T-10052	90745-19-0	Pfaffoside C, in P-10091		
89051-73-0	4-Methylhexadecanoic acid; (<i>R</i>)-form, in M-10061	90985-77-6	Ginsenoside Ra ₃ , in D-10011		
89286-83-9	Leukotriene D ₄ ; Me ester, in L-10047	91106-34-2	Coculine <i>N</i> -2-oxide, in C-10113		
		91147-04-5	Emmotin I, E-10013		
		91158-68-8	Dendrilolide A, D-10036		
		91297-89-1	3-Hydroxytetracosanoic acid, H-10230		
		91310-99-5	Steffimycin, see S-10109		

91851-67-1	34-Ethylhuratoxin; 15,16,22,23,24,25-Hexahydro, <i>in</i> E-10202	94190-55-3	9-Hydroxy-4(15),11(13)- eudesmadien-12-oic acid; 9β - <i>form</i> , <i>in</i> H-10139	96292-46-5	Sanguin H11, S-10013
91851-68-2	Huratoxin; 3-Alcohol, 1,2,15,16,2',3',4',5'-octahydro, <i>in</i> H-10076	94285-17-3	Okanin; 3,4-Di-Me ether, 4'- O - β - D-glucopyranoside, <i>in</i> P-10040	96315-53-6	Huzhangoside D, <i>in</i> D-10212
91884-86-5	Curcumin I, <i>in</i> C-10149	94285-18-4	Okanin; 3,3',4'-Tri-Me ether, 4'- O - β -D-glucopyranoside, <i>in</i> P-10040	96386-71-9	Spinoflavanone B; (<i>S</i>)- <i>form</i> , <i>in</i> D-10141
91884-87-6	Curcumin II, <i>in</i> C-10149	94285-19-5	2'-Hydroxy-3,3',4,4'- tetramethoxychalcone, <i>in</i> P-10040	96400-38-3	Populin; 3- O - β -D-Glucuronoside, <i>in</i> P-10133
91884-88-7	Curcumin III, C-10149	94285-20-8	Okanin; 4-Me ether, 4'- O - β -D- glucopyranoside, <i>in</i> P-10040	96400-45-2	Luteolin; 7- O -[Glucuronosyl- (1 \rightarrow 2)-glucuronoside], <i>in</i> T-10052
92051-26-8	Schisanlactone D, S-10033	94323-77-0	Barbapryoside, <i>in</i> D-10098	96400-46-3	Annonelliptine; (<i>R</i>)- <i>form</i> , <i>in</i> A-10090
92051-27-9	Schisanlactone C, S-10032	94356-13-5	Atrochryson; (<i>S</i>)- <i>form</i> , 6-Me ether, 8- O - β -D-gentiobioside, <i>in</i> D-10102	96405-61-7	Goniodiol diacetate, <i>in</i> G-10109
92122-80-0	30-Hydroxy-5-dotriacontanone, H-10124	94413-18-0	Anacycline; (<i>E,E</i>)- <i>form</i> , <i>in</i> A-10079	96405-62-8	Goniotriol, <i>in</i> G-10109
92122-81-1	4-Pentatriacontanone, P-10070	94413-31-7	25-Hydroxy-3-dotriacontanone, H-10122	96422-52-5	Goniodiol, G-10109
92138-20-0	Isoselagine, <i>in</i> H-10074	94421-68-8	Anandamide, <i>in</i> E-10009	96422-53-6	Goniodiol monoacetate, <i>in</i> G-10109
92219-48-2	Excoecariatoxin, <i>in</i> G-10107	94443-29-5	5-Acetyl-6-glucosyl-7-hydroxy- 2-methyl-4 <i>H</i> -1-benzopyran-4- one; 2'- O - β -D-Glucopyranoside, <i>in</i> A-10013	96552-83-9	Tinophyllol, <i>in</i> E-10101
92260-57-6	Huratoxin; 1,2,2',3',4',5'- Hexahydro, <i>in</i> H-10076	94443-43-3	Oligophylidine, <i>in</i> T-10130	96617-52-6	Agelasidine C, <i>see</i> A-10034
92260-58-7	34-Ethylhuratoxin; 1,2,22,23,24,25- Hexahydro, <i>in</i> E-10202	94444-40-3	Machaerinic acid; 21-Cinnamoyl, <i>in</i> D-10211	96681-56-0	Agelasidine C; (+)- <i>form</i> , <i>in</i> A-10034
92340-52-8	6-(1-Propenyl)-1,4- cycloheptadiene, <i>see</i> P-10152	94450-25-6	1,10:4,5-Diepoxy-8,13,14- trihydroxy-2,7(11)-germacradien- 12,6-olide; (1 α ,2 <i>E</i> ,4 α ,5 β ,6 α ,8 α ,10 α)- <i>form</i> , 8- (2-Methylpropenyl), 13-Ac, <i>in</i> D-10088	96688-25-4	Pericyclimenosidic acid, <i>in</i> L-10059
92356-86-0	Tirotundifolin D, <i>in</i> D-10159	94450-29-0	1,10:4,5-Diepoxy-8,13,14- trihydroxy-2,7(11)-germacradien- 12,6-olide; (1 α ,2 <i>E</i> ,4 α ,5 β ,6 α ,8 α ,10 α)- <i>form</i> , 8- (2-Methylbutanoyl), 13-Ac, <i>in</i> D-10088	96751-10-9	3- O - α -D-Glucopyranuronosyl-D- galactose, G-10076
92356-87-1	Tirotundifolin C, <i>in</i> D-10159	94481-83-1	Anacycline, <i>see</i> A-10079	96751-10-9	Populin; 3- O -D-Xyloside, <i>in</i> P-10133
92439-19-5	2',5'-Dihydroxyflavone, D-10163	94492-28-1	3,23-Dihydroxy-12-ursen-28-oic acid; 3β - <i>form</i> , Di-Ac, Me ester, <i>in</i> D-10261	96853-59-7	Lancerodiol; 6-(4- Methoxybenzoyl), <i>in</i> D-10131
92484-33-8	Kandavanolide, <i>in</i> D-10175	94530-84-4	Senkyunolide F, <i>in</i> L-10052	96853-60-0	Lancerodiol, <i>in</i> D-10131
92496-59-8	2,4-Dihydroxychalcone, D-10125	94596-27-7	Senkyunolide H, <i>in</i> L-10052	96853-62-2	Lancerodiol; 6-(4- Hydroxybenzoyl), <i>in</i> D-10131
92519-96-5	2',6',7-Trihydroxy-5- methoxyflavanone, <i>in</i> T-10050	94662-71-2	Pfaffoside F, <i>in</i> P-10091	96917-25-8	3-(3,5-Hexadiynyl)- <i>N</i> -(2- phenylethyl)oxiranecarboxamide, <i>in</i> E-10131
92620-81-0	Piperitol, <i>see</i> P-10120	94662-72-3	Pfaffoside D, <i>in</i> P-10091	96935-16-9	Depressoside, <i>in</i> L-10059
92631-83-9	3-Glucosyl-2,3',4,4',6- pentahydroxybenzophenone, G-10087	94662-73-4	Pfaffoside E, <i>in</i> P-10091	96944-53-5	Specionin†, S-10085
92631-84-0	3-Glucosyl-2,3',4,4',6- pentahydroxybenzophenone; 6''- (<i>p</i> -Hydroxybenzoyl), 2''-(3,4,5- trihydroxybenzoyl), <i>in</i> G-10087	94736-66-0	Perforatic acid, <i>see</i> P-10077	97094-22-9	Tormentic acid; 2-Ac, <i>in</i> T-10194
92631-85-1	3-Glucosyl-2,3',4,4',6- pentahydroxybenzophenone; 2''- (<i>p</i> -Hydroxybenzoyl), 6''-(3,4,5- trihydroxybenzoyl), <i>in</i> G-10087	94736-67-1	Perforatic acid, P-10077	97094-23-0	Tormentic acid; 3-Ac, <i>in</i> T-10194
92631-86-2	3-Glucosyl-2,3',4,4',6- pentahydroxybenzophenone; 2'',3'',6''-Tris-(3,4,5- trihydroxybenzoyl), <i>in</i> G-10087	94739-81-8	Paulomenol A, <i>in</i> P-10016	97191-41-8	4-Hydroxy-16,18- tritriacontanedione, H-10239
92665-82-2	3-Glucosyl-2,3',4,4',6- pentahydroxybenzophenone; 6''- (<i>p</i> -Hydroxybenzoyl), <i>in</i> G-10087	94767-59-6	Paulomycinone A, <i>in</i> P-10016	97191-42-9	18-Hydroxy-16-tritriacontanone, H-10240
92678-86-9	Shinjulactone G, <i>in</i> K-10013	94851-01-1	PLMF 5, <i>in</i> P-10081	97233-06-2	Cinnamtannin D ₁ , <i>in</i> P-10054
92691-97-9	Artemislactone, <i>in</i> H-10082	94901-71-0	6,7-Epoxy-3(15)-caryophyllen-14- ol, <i>in</i> C-10027	97372-89-9	11-Methyl-3-undecenolide, <i>see</i> M-10078
92694-04-7	6 β ,7 β -Dihydroxy-12 <i>E</i> -abienol, <i>in</i> L-10008	95007-77-5	5-Oxoheneicosanoic acid, O-10057	97399-96-7	Cynatratoside A, <i>in</i> G-10039
92745-17-0	3,4-Dimethyl-5-pentyl-2- furanheptanoic acid, D-10284	95261-31-7	3',4',5',5',7-Pentahydroxy-2',6'- diprenylisoflavone, <i>see</i> P-10048	97399-97-8	Cynatratoside B, <i>in</i> G-10039
92845-55-1	2,2-Diethoxypropanamide, <i>in</i> P-10180	95298-47-8	Kaji-ichigoside F1, <i>in</i> T-10194	97399-99-0	Cynatratoside D, <i>in</i> G-10039
92910-93-5	Ingol; 7-Tigloyl, 3,8,12-tri-Ac, <i>in</i> I-10013	95393-76-3	1-Hydroxy-5,6-dimethoxy-2- methylanthraquinone, <i>in</i> T-10160	97400-08-3	Cistanoside E, <i>in</i> D-10235
92998-67-9	Multifidene, <i>see</i> B-10053	95455-42-8	7-Acetyl-2-hydroxy-8-methoxy-6- methyl-1,4-naphthoquinone, <i>in</i> A-10017	97465-76-4	Cynatratoside C, <i>in</i> G-10039
92998-77-1	Ingol; 7-Angeloyl, 3,8,12-tri-Ac, <i>in</i> I-10013	95481-80-4	Forbeside C, <i>in</i> T-10135	97465-78-6	Cynatratoside E, <i>in</i> G-10039
93078-91-2	Luteolin; 3'- O - β -D- Xylopyranoside, <i>in</i> T-10052	95519-27-0	Taxifolin; (2 <i>R</i> ,3 <i>R</i>)- <i>form</i> , 3'- O -(6- <i>O</i> -Phenylacetyl)- β -D- glucopyranoside), <i>in</i> P-10050	97474-86-7	2-Methyl-4-oxopentanedioic acid, <i>see</i> M-10067
93078-94-5	Taxifolin; (2 <i>R</i> ,3 <i>R</i>)- <i>form</i> , 7-Me ether, 5- O - β -D-glucopyranoside, <i>in</i> P-10050	95596-61-5	Luteolin 7-(2-coumaroylglucoside), <i>in</i> T-10052	97534-12-8	14-Hydroxyheneicosanoic acid, H-10156
93376-72-8	Ginsenoside M _{6a} , <i>in</i> D-10008	95772-53-5	14-Hydroxyneocembrene, <i>in</i> C-10055	97560-25-3	Pectenotoxin 3, <i>in</i> P-10020
93381-26-1	4-Ethylglutamic acid; (2 <i>S</i> ,4 <i>R</i>)- <i>form</i> , <i>in</i> E-10201	96087-14-8	Swertiaside A, <i>in</i> L-10059	97564-90-4	Pectenotoxin 1, P-10020
93381-27-2	4-Ethylglutamic acid, <i>see</i> E-10201	96160-44-0	Triptotononic acid B, <i>in</i> H-10079	97564-91-5	Pectenotoxin 2, <i>in</i> P-10020
93460-68-5	Bafilomycin D ₂ , <i>in</i> B-10005	96180-79-9	Cyanoginosin LA, <i>in</i> C-10150	97695-01-7	Hiiragilide, <i>in</i> O-10033
93675-88-8	Forsythoside E, <i>in</i> D-10235	96186-43-5	Emericedin C, <i>in</i> D-10044	97717-93-6	1- <i>O</i> -Hexadecyl-2- <i>O</i> - docosahexaenoyl- <i>sn</i> -glycero-3- phosphocholine, H-10042
93772-31-7	Neogambogic acid, N-10017	96186-68-4	Emericedin A, <i>in</i> D-10044	97718-45-1	Subergoric acid, O-10063
93789-25-4	Shinjuglycoside C, <i>in</i> A-10053	96201-14-8	3,4-Diaminobutanoic acid; (<i>R</i>)- <i>form</i> , N ⁴ -Tri-Me, B,2HCl, <i>in</i> D-10044	97761-97-2	23-Octacosenoic acid; (<i>Z</i>)- <i>form</i> , <i>in</i> O-10007
93789-26-5	Shinjuglycoside D, <i>in</i> A-10053			97763-01-4	Speciosamine, <i>in</i> S-10086
93798-36-8	Atrochryson, <i>see</i> D-10102			97775-88-7	Stenophyllanin A, <i>in</i> S-10114
93888-83-6	Grandiflorolic acid; 2,3- Dihydroxy-2-methylbutanoyl, <i>in</i> H-10170			97775-90-1	Stenophyllanin C, S-10114
94190-53-1	9-Oxocostic acid, <i>in</i> H-10139			97850-14-1	15-Hydroxy-5,8,11,13,17- eicosapentaenoic acid, H-10128

98462-03-4	8-Hydroxy-5,9,11,14-eicosatetraenoic acid; (8 <i>S</i> ,5 <i>Z</i> ,9 <i>E</i> ,11 <i>Z</i> ,14 <i>Z</i>)- <i>form</i> , in H-10129	100045-39-4	10,12-Dihydroxy-3-longipinen-5-one; 10 β - <i>form</i> , in D-10191	102258-24-2	4,8-Bis(2,4-dihydroxyphenyl)2,6,10-tris(3,4-dihydroxyphenyl)-3,4,7,8,11,12-hexahydro-2 <i>H</i> ,6 <i>H</i> ,10 <i>H</i> -benzo[1,2- <i>b</i> ,3,4- <i>b'</i> ,5,6- <i>b''</i>]tripyrans-3,7,11-triol, B-10035
98570-81-1	Buchanin, in E-10164	100156-32-9	Lucyoside M, in D-10212		
98575-26-9	Luteolin; 7- <i>O</i> - β -D-Xyloside, in T-10052	100187-59-5	Crepiside I, in D-10175		
98618-06-5	2'-Norpakistanine, in P-10001	100187-60-8	Crepiside G, in D-10175		
98716-92-8	Luteolin, <i>see</i> T-10052	100228-49-7	Crepiside H, in D-10175		
98752-03-5	Corumdefine, in N-10052	100228-50-0	Crepiside E, in D-10175	102258-25-3	10-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> -benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,5,9-triol; (2 <i>R</i> ,3 <i>S</i> ,8 <i>R</i> ,9 <i>S</i> ,10 <i>S</i>)- <i>form</i> , in D-10231
98767-38-5	Luteolin; 7- <i>O</i> -(6-Malonylglucoside), in T-10052	100296-25-1	Cynatratoside F, in G-10039		
98813-11-7	Oxohydrogolidin, O-10058	100360-71-2	4-Rutinosyloxy-5-methylcoumarin, in H-10176	102349-43-9	Medicoside C, in D-10212
98813-22-0	Steffimycin C, in S-10109	100440-26-4	Ganoderic acid J, in H-10232	102490-02-8	Auberganol, in E-10216
98873-84-8	Oxaspirol A, O-10051	100440-27-5	Ganolucidic acid C, in T-10142	102506-55-8	Luteolin; 3'- <i>O</i> -Xylopyranoside, 7- <i>O</i> -glucopyranoside, in T-10052
98900-01-7	Kalbreclasin, in N-10004	100462-37-1	Rosiridin, in D-10278		
98917-85-2	2-Galloylglucose, G-10018	100478-03-3	7-Hydroxy-4'-methoxyisoflavan-2',5'-quinone(4 \rightarrow 5')-2',7-dihydroxy-4'-methoxyisoflavan, H-10175	102517-36-2	Venulol, V-10018
99081-78-4	3-Hydroxyergosta-5,22-dien-7-one; (3 β ,22 <i>E</i> ,24 <i>S</i>)- <i>form</i> , in H-10134			102518-79-6	Huperzine A, H-10074
99081-79-5	Ergosta-5,24(28)-diene-3,7-diol; (3 β ,7 β)- <i>form</i> , in E-10174	100595-93-5	3- <i>O</i> -Acetylpadmatin, in P-10050	102636-98-6	Cyclicodisic acid, in D-10194
99081-81-9	Ergosta-5,24(28)-diene-3,7-diol; (3 β ,7 α)- <i>form</i> , in E-10174	100676-05-9	β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl-(1 \rightarrow 4)-D-glucose, G-10066	102674-12-4	7,14-Dihydroxy-4,8,10,12-octadecatetraenedioic acid, D-10205
99088-27-4	Anhydro-5-deoxyfusarubin, in A-10088	100679-07-0	12-Hydroxy-5,8,10-heptadecatrienoic acid, <i>see</i> H-10159	102693-71-0	11,12,13-Trihydroxy-9,15-octadecadienoic acid, <i>see</i> T-10169
99102-40-6	Prosurगतoxin, in N-10022			102728-60-9	Hycinthoside, in S-10072
99210-83-0	Ergosta-5,22-diene-3,7-diol; (3 β ,7 β ,24 <i>S</i>)- <i>form</i> , in E-10173	100830-55-5	Gymnocladussaponin D, G-10143	102735-55-7	11,12,13-Trihydroxy-9,15-octadecadienoic acid; (9 <i>Z</i> ,11 <i>R</i> ,12 <i>S</i> ,13 <i>S</i> ,15 <i>Z</i>)- <i>form</i> , in T-10169
99223-32-2	Stachynone, S-10108	100896-77-3	8-Hydroxy-5,9,11,14-eicosatetraenoic acid, <i>see</i> H-10129		
99223-33-3	Stachynene, S-10107	101021-26-5	3',4',5',5',7-Pentahydroxy-3,6-dimethoxyflavone, in H-10026	102828-06-8	Thaicanine; (<i>S</i>)- <i>form</i> , in T-10081
99257-54-2	Neohelmantcin, N-10018	101043-35-0	Cyanoginosin YM, in C-10150	102828-07-9	<i>O</i> -Methylthaicanine, in T-10081
99305-57-4	Excoecaria factor B ₁ , in G-10107	101043-36-1	Cyanoginosin YA, in C-10150	102904-44-9	Anacheiloides, in P-10050
99313-78-7	Peddiea factor A ₁ , P-10024	101043-37-2	Cyanoginosin LR, in C-10150	102907-33-5	Tinophylloside, in E-10101
99313-79-8	Peddiea factor V ₂ , in P-10024	101064-48-6	Cyanoginosin YR, in C-10150	103188-43-8	<i>N</i> -2-Phenylethylcinnamamide; (<i>E</i>)- <i>form</i> , in P-10098
99457-98-4	Garvin A quinone, G-10023	101219-67-4	11,12,13-Trihydroxy-9,15-octadecadienoic acid, <i>see</i> T-10169	103190-15-4	5-Tetrahydro-4,6-dihydroxy-2-(3-hydroxy-1-octenyl)-2 <i>H</i> -pyran-3-yl]-3-pentenoic acid, <i>see</i> T-10027
99481-43-3	3,16-Dihydroxy-24-cycloarten-6-one; (3 β ,16 β)- <i>form</i> , Di- <i>O</i> - β -D-glucopyranoside, in D-10129	101330-59-0	1-Hydroxyrutacridone epoxide, in R-10062	103215-65-2	1-Pentatriacontanol, <i>see</i> P-10068
99481-44-4	3,16-Dihydroxy-24-cycloarten-6-one, <i>see</i> D-10129	101330-63-6	1-Hydroxy-2,3,5,6-tetramethoxy-10-methylacridone, in P-10038	103374-38-5	12-Oxo-5,8,10-heptadecatrienoic acid, in H-10159
99481-53-5	Cholestane-3,6,8,15,24-pentol; (3 β ,5 α ,6 α ,15 β ,24 <i>S</i>)- <i>form</i> , in C-10091	101330-64-7	1,6-Dihydroxy-2,3,5-trimethoxy-10-methylacridone, in P-10038	103425-23-6	Alpinone, in E-10109
99481-54-6	Cholestane-3,4,6,8,15,24-hexol; (3 β ,4 β ,5 α ,6 β ,15 α ,24 <i>S</i>)- <i>form</i> , in C-10090	101391-01-9	Rosiridol, D-10278	103439-80-1	1,2,3,5,6,8-Hexathionane, H-10062
99617-38-6	12 α -Acetoxy-16 β -hydroxy-20,24-dimethyl-24-oxo-25-scalaranal, in D-10136	101391-09-7	Excoecaria factor O ₂ , in D-10012	103451-03-2	Vismione H, in D-10102
99624-64-3	Hildecarpin, in P-10062	101394-98-3	Orizabin IV, O-10048	103548-82-9	Huperzine B, H-10075
99630-29-2	5,6,7,8-Tetrahydrobiopterin; (1' <i>R</i> ,2' <i>S</i> ,6 <i>R</i>)- <i>form</i> , in T-10025	101394-99-4	Orizabin I, O-10045	103654-31-5	Pallinol, in D-10020
99630-30-5	5,6,7,8-Tetrahydrobiopterin, <i>see</i> T-10025	101395-00-0	Orizabin II, O-10046	103701-22-0	Ferutriol; 6-(3-Methylbutanoyl), in D-10021
99633-12-2	Eucommin A, in M-10024	101395-01-1	Orizabin III, O-10047	103701-24-2	Ferutriol, in D-10021
99664-47-8	Lilixanthin, L-10053	101396-05-8	Emericedin B, in D-10044	103701-26-4	Webiol, in H-10108
99694-75-4	Luteolin; 7- <i>O</i> -Sambubioside, in T-10052	101409-52-3	Excoecaria factor A ₃ , in E-10202	103701-27-5	Webiol; 8-Angeloyl, in H-10108
99694-79-8	Luteolin; 3'- <i>O</i> - α -L-Rhamnopyranoside, in T-10052	101411-69-2	Paulomycin E, P-10017	103701-28-6	Webiol; 8-(2,3-Epoxy-3-methylbutanoyl), in H-10108
99694-85-6	<i>N</i> -[3-(β -D-Glucopyranosyloxy)-2,3-dihydro-2-oxo-1 <i>H</i> -indol-3-yl]acetyl]aspartic acid, G-10068	101512-28-1	21 α -Hydroxyursolic acid, in D-10259	103735-86-0	Huperzine A, <i>see</i> H-10074
99713-74-3	Geniconitine, in S-10046	101849-03-0	Luteolin; 4'- <i>O</i> - β -D-Glucuronoside, 7- <i>O</i> -[β -D-glucuronosyl-(1 \rightarrow 2)- β -D-glucuronoside], in T-10052	103739-94-2	Isoannulide, in A-10093
99815-84-6	Nudicaulamine, N-10052	101899-62-1	Allopertusaric acid, in M-10093	103739-95-3	Annulide, A-10093
99877-82-4	1,2,3,4,6-Pentagalloylglucose, <i>see</i> P-10035	101899-68-7	Dihydropertusaric acid, in M-10093	103744-68-9	2,10-Dioxatricyclo[6.2.1.0 ^{5,11}]undecane-6,7,8-triol, D-10292
99877-84-6	1,2,3,4,6-Pentagalloylglucose, <i>see</i> P-10035	102067-85-6	Sappanone B, D-10113	103764-33-6	Hymecromone, <i>see</i> H-10177
99877-86-8	1,2,3,4,6-Pentagalloylglucose, <i>see</i> P-10035	102092-19-3	Robustal B, in M-10077	103782-06-5	Oxaunomycin, <i>see</i> O-10052
99877-87-9	1,2,3,4,6-Pentagalloylglucose, <i>see</i> P-10035	102130-11-0	Culcitoside C ₁ , in C-10090	103827-25-4	Teupyrin B, in D-10066
99891-69-7	Abelioside A, in A-10001	102148-92-5	<i>N</i> ⁵ -Acetyl- <i>N</i> ² - γ -glutamylornithine, in G-10095	103833-89-2	Dictyoptereine B; (1 <i>R</i> ,1' <i>E</i> ,2 <i>R</i> ,3' <i>E</i>)- <i>form</i> , in H-10048
99891-73-3	Abelioside B, A-10001	102148-93-6	(γ -Glutamyl- γ -glutamyl)- <i>S</i> -methylcysteine, in G-10093	103951-26-4	α -L-Rhamnopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-(1 \rightarrow 3)-L-rhamnose, <i>see</i> R-10027
99907-48-9	3- <i>O</i> -Digalloyl-1,2,6-tri- <i>O</i> -galloyl- β -D-glucopyranose, in T-10024	102191-02-6	Entadasaponin II, E-10022	103956-44-1	2-(Ethoxymethyl)-3,5-dihydroxy-1-methoxyanthraquinone, in T-10152
99964-83-7	Cadabicine, C-10001	102191-03-7	Entadasaponin III, in E-10022	103976-31-4	Hederagenin; 3- <i>O</i> -(2- <i>O</i> -Acetyl- α -L-arabinopyranoside), [β -D-glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranosyl] ester, in D-10212
99964-84-8	Cadabicine diacetate, in C-10001	102258-23-1	10-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> -benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,9-diol; (2 <i>R</i> ,3 <i>S</i> ,8 <i>R</i> ,9 <i>S</i> ,10 <i>R</i>)- <i>form</i> , in D-10228	104075-62-9	PLMF 6, in P-10081
99965-02-3	4',7-Dihydroxy-2',5'-dimethoxyisoflavanone, in T-10055			104125-36-2	2',5',6',7-Tetrahydroxyflavanone, T-10050
				104139-53-9	Nepedinelol, in L-10084

104196-16-9	Dihydroepideoxyarteannuin B, <i>in</i> C-10007	105805-44-5	4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,7,8-tetrahydro-2 <i>H</i> ,6 <i>H</i> -benzo[1,2- <i>b</i> :5,4- <i>b'</i>]dipyrans-3,7-diol; (2 <i>R</i> ,3 <i>S</i> ,4 <i>S</i> ,7 <i>S</i> ,8 <i>R</i>)- <i>form</i> , <i>in</i> D-10227	108706-11-2	Triaccontanoic acid; Hexyl ester, <i>in</i> T-10100
104311-71-9	Macfarlandin E, <i>in</i> D-10036			108789-17-9	Isooleuropein, <i>in</i> I-10036
104494-27-1	Hederagenin; 3- <i>O</i> -[3-Acetyl- β -D-xylopyranosyl(1 \rightarrow 3)- α -L-rhamnopyranosyl(1 \rightarrow 2)- α -L-arabinopyranoside], <i>in</i> D-10212	105880-85-1	10-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> -benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,9-diol; (2 <i>S</i> ,3 <i>S</i> ,8 <i>R</i> ,9 <i>S</i> ,10 <i>S</i>)- <i>form</i> , <i>in</i> D-10228	108886-09-5	Gymnocladussaponin G, G-10147
104613-44-7	Versicolactone B, <i>in</i> H-10150			108906-51-0	Icariside B ₂ , <i>in</i> H-10173
104669-04-7	Pedirutoside, <i>in</i> H-10223			108906-53-2	Cornuinin C, C-10127
104758-12-5	15-Hydroxy-5,8,11,13,17-eicosapentaenoic acid, <i>see</i> H-10128			108906-96-3	Trifolinf; 2'- <i>O</i> - α -L-Rhamnopyranoside, <i>in</i> T-10123
104777-68-6	Purpureaside A, P-10173	105955-69-9	2-Hydroxy-3-(4-methoxyphenyl)propanamide, <i>in</i> H-10167	108943-47-1	6-Heptyltetrahydro-2 <i>H</i> -pyran-2-one; (<i>S</i>)- <i>form</i> , <i>in</i> H-10031
104778-15-6	3-(3,4-Dihydroxybenzyl)-3,4,7-chromantriol, <i>see</i> D-10112	106010-39-3	12-Hydroxy-8-oxo- β -cyperone; (11 <i>S</i>)- <i>form</i> , <i>in</i> H-10137	108944-19-0	4,14-Dimethylergosta-9(11),24(28)-dien-3-ol, <i>see</i> D-10272
	Sappanone B; (<i>R</i>)- <i>form</i> , <i>in</i> D-10113	106010-40-6	12-Hydroxy-8-oxo- β -cyperone; (11 <i>R</i>)- <i>form</i> , <i>in</i> H-10137	109194-55-0	3-Methoxy-4-hydroxyphenyl 1- <i>O</i> -(6- <i>O</i> -galloyl- β -D-glucopyranoside), <i>in</i> B-10013
104778-16-7	4- <i>O</i> -Methylsappanol, <i>in</i> D-10112	106022-47-3	Stegobiene, <i>see</i> S-10110	109194-58-3	<i>cis</i> -Coniferyl alcohol 4- <i>O</i> -(6-galloylglucopyranoside), <i>in</i> D-10243
104806-92-0	Cistanoside H, <i>in</i> D-10235	106326-78-7	Arginylthreonine; (2 <i>S</i> ,2' <i>S</i> ,3' <i>R</i>)- <i>form</i> , <i>in</i> A-10117	109214-86-0	Rhynchophorol, <i>see</i> M-10058
104855-82-5	Rubiflavin E, <i>in</i> R-10053	106400-39-9	Taxifolin; (2 <i>R</i> ,3 <i>R</i>)- <i>form</i> , 7- <i>O</i> - α -D-Glucopyranoside, <i>in</i> P-10050	109351-36-2	Sinococuline, S-10066
104899-66-3	Capparisine, C-10020	106500-23-6	Salannolactam 21, S-10003	109577-10-8	2-Methyl-1,3-oxathiane, <i>see</i> M-10066
104901-05-5	Borapetoside B, <i>in</i> E-10062	106500-24-7	Salannolactam 23, <i>in</i> S-10003	109605-79-0	Topazolin, <i>in</i> T-10067
104901-06-6	Borapetol B, <i>in</i> E-10062	106541-97-3	10-Hydroxy-8-decenoic acid; (<i>E</i>)- <i>form</i> , <i>in</i> H-10109	109605-84-7	Topazolin hydrate, <i>in</i> T-10067
104932-41-4	Triaccontanoic acid; Tetradecyl ester, <i>in</i> T-10100	106622-79-1	Americanin D, <i>see</i> A-10054	109671-56-9	Mesquitol(4 α \rightarrow 8)catechin, <i>in</i> P-10052
105013-72-7	Baimuxinol, <i>in</i> H-10110	107041-31-6	Culcitioside C ₂ , <i>in</i> E-10178	109671-59-2	6-[1-(3,4-Dihydroxyphenyl)-2-hydroxy-3-(3,4,5-trihydroxyphenyl)propyl]-3',4',7,8-tetrahydroxyflavan; (1' <i>S</i> ,2 <i>R</i> ,2' <i>R</i> ,3 <i>S</i>)- <i>form</i> , <i>in</i> D-10241
105013-74-9	Dehydrobaimuxinol, <i>in</i> H-10110	107041-32-7	Culcitioside C ₃ , <i>in</i> E-10179		
105093-74-1	Gnetin I, G-10106	107110-06-5	Glochidioides, <i>in</i> O-10027		
105093-75-2	Gnetin F, G-10104	107110-12-3	2,6-Dihydroxy-1,8-dimethoxyxanthone, <i>in</i> T-10073		
105097-80-1	4,14-Dimethylergosta-9(11),24(28)-dien-3-ol, <i>see</i> D-10272				
105119-62-8	5,6,7,8-Tetrahydrobiopterin, <i>see</i> T-10025	107241-23-6	Medicoside I, <i>in</i> D-10212	109701-80-6	Fisetinidol(4 α \rightarrow 6)mesquitol, <i>in</i> T-10051
105119-63-9	5,6,7,8-Tetrahydrobiopterin, <i>see</i> T-10025	107259-49-4	Atalafoline, <i>in</i> P-10038	109754-82-7	3,4-Diaminobutanoic acid; (\pm)- <i>form</i> , B, 2 <i>HCl</i> , <i>in</i> D-10044
105132-92-1	Gnetin H, G-10105	107494-19-9	Sanjoinine A _h , <i>in</i> F-10018	109770-92-5	Senburiside II, <i>in</i> L-10059
105205-52-5	Leiocarpone, L-10039	107531-28-2	4-(1-Hexenyl)cyclopentene, <i>in</i> H-10047	109877-47-6	3,6,9-Heptadecatriene; (All- <i>Z</i>)- <i>form</i> , <i>in</i> H-10020
105239-66-5	α -L-Rhamnopyranosyl-(1 \rightarrow 2)- α -L-rhamnopyranosyl-(1 \rightarrow 3)-L-rhamnose, <i>see</i> R-10027	107585-56-8	Capsicastrine, <i>in</i> E-10206	109877-48-7	3,4-Epoxy-6,9-heptadecadiene, <i>in</i> H-10020
105242-48-6	Elemacarmannin, <i>in</i> T-10145	107602-74-4	6 β ,8 β ,9 α ,14-Tetraacetoxy-1 α -benzoyloxy-4 β -hydroxydihydro- β -agarofuran, <i>in</i> H-10054	109877-49-8	6,7-Epoxy-3,9-heptadecadiene, <i>in</i> H-10020
105265-44-9	1,2,3,4-Eicosanetetrol; (2 <i>S</i> ,3 <i>R</i> ,4 <i>R</i>)- <i>form</i> , Tetra-Ac, <i>in</i> E-10008	107602-75-5	9 α ,14-Diacetoxy-1 α -benzoyloxy-4 β ,6 β ,8 β -trihydroxydihydro- β -agarofuran, <i>in</i> H-10054	109877-51-2	9,10-Epoxy-6,9-heptadecadiene, <i>in</i> H-10020
105305-54-2	Sarain 3, S-10022	107602-76-6	6 β ,9 α ,14-Triacetoxy-1 α -benzoyloxy-4 β -hydroxy-8-oxodihydro- β -agarofuran, <i>in</i> H-10054	109890-37-1	Trichotriol, T-10112
105330-48-1	Hellebritoxin, <i>in</i> T-10175	107602-77-7	6 β ,9 α ,14-Triacetoxy-1 α -benzoyloxy-4 β ,8 β -dihydroxydihydro- β -agarofuran, <i>in</i> H-10054	109958-70-5	1-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol; (1 <i>RS</i> ,2 <i>SR</i> ,3 <i>RS</i> ,4 <i>SR</i>)- <i>form</i> , Penta-Ac, <i>in</i> H-10180
105368-50-1	1,2,3,4-Eicosanetetrol; (2 <i>S</i> ,3 <i>R</i> ,4 <i>R</i>)- <i>form</i> , <i>in</i> E-10008	107602-78-8	9 α ,14-Diacetoxy-1 α ,8 β -dibenzoyloxy-4 β ,8 β -dihydroxydihydro- β -agarofuran, <i>in</i> H-10054	109974-30-3	Adenanthin, <i>in</i> K-10007
105368-53-4	1,2,3,4-Eicosanetetrol; (2 <i>S</i> ,3 <i>R</i> ,4 <i>S</i>)- <i>form</i> , <i>in</i> E-10008	107686-60-2	Machaeric acid; 21-Cinnamoyl, 3- <i>O</i> - β -D-glucopyranoside, <i>in</i> D-10211	109985-87-7	Carnosifogenin A, <i>in</i> C-10142
105368-57-8	1,2,3,4-Eicosanetetrol; (2 <i>R</i> ,3 <i>S</i> ,4 <i>R</i>)- <i>form</i> , <i>in</i> E-10008	107697-90-5	2-Methyl-1,3-oxathiane, <i>see</i> M-10066	109985-88-8	Carnosifogenin B, <i>in</i> C-10142
105368-58-9	1,2,3,4-Eicosanetetrol; (2 <i>R</i> ,3 <i>S</i> ,4 <i>R</i>)- <i>form</i> , Tetra-Ac, <i>in</i> E-10008	107697-95-0	2-Methyl-1,3-oxathiane, <i>see</i> M-10066	109985-91-3	Carnosifoside I, <i>in</i> C-10142
105368-60-3	Guggultetrol 20, <i>in</i> E-10008	107783-36-8	Etiolinine, <i>in</i> E-10206	109985-92-4	Carnosifoside II, <i>in</i> C-10142
105368-61-4	Guggultetrol 20; Tetra-Ac, <i>in</i> E-10008	107882-02-0	<i>O</i> -Methylauricine 2'- <i>N</i> -oxide, <i>in</i> D-10022	109985-93-5	Carnosifoside III, <i>in</i> C-10142
105368-62-5	Guggultetrol 18, <i>in</i> O-10009	107882-03-1	<i>O</i> -Methylauricine 2- <i>N</i> -oxide, <i>in</i> D-10022	109985-94-6	Carnosifoside IV, <i>in</i> C-10142
105418-77-7	Sarain 1, S-10020	107886-53-3	Canavalmine, <i>see</i> C-10018	109985-95-7	Carnosifoside V, <i>in</i> C-10142
105418-80-2	Sarain 2, S-10021	107886-65-7	Canavalmine, <i>see</i> C-10018	109985-97-9	Carnosifoside VI, <i>in</i> C-10142
105453-57-4	3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol, <i>see</i> D-10269	107987-03-1	2-Methyl-4-oxopentanedioic acid; Di-Et ester, <i>in</i> M-10067	110042-00-7	Scandenoside R ₇ , <i>in</i> C-10142
105500-09-2	8-Hydroxy-5,9,11,14-eicosatetraenoic acid; (5 <i>Z</i> ,8 <i>R</i> ,9 <i>E</i> ,11 <i>Z</i> ,14 <i>Z</i>)- <i>form</i> , <i>in</i> H-10129	108266-93-9	Dammara-20(22),24-diene-3,12-diol, <i>see</i> D-10003	110064-51-2	Taxine II, <i>in</i> T-10070
105558-26-7	Ginsenoside Rh ₃ , <i>in</i> D-10003	108529-23-3	Ilexoside A, <i>in</i> D-10210	110064-52-3	3'-Deoxysappanone B; (<i>R</i>)- <i>form</i> , <i>in</i> D-10178
105615-58-5	Oxaunomycin, O-10052	108543-38-0	Cassioside†, C-10031	110065-67-3	3-(4-Hydroxybenzyl)-3,4,7-chromantriol, H-10086
105742-84-5	Isocowanin, <i>in</i> T-10046	108639-31-2	12-Isothiocyanato-5-eudesmene; (4 β ,7 β <i>H</i>)- <i>form</i> , <i>in</i> I-10055	110065-68-4	Gymnocladussaponin E, <i>in</i> G-10146
105742-85-6	Isocowanol, <i>in</i> T-10046	108657-50-7	Havardic acid F, <i>in</i> H-10194	110065-69-5	Gymnocladussaponin F ₁ , G-10145
105742-86-7	Nervosaxanthone, N-10024	108657-51-8	Havardiol, <i>in</i> H-10194	110065-69-5	Gymnocladussaponin F ₂ , G-10146
105805-43-4	4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> -benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,5,9-triol, <i>see</i> D-10229	108698-01-7	13,16,19-Docosatrienoic acid, <i>see</i> D-10300	110085-22-8	Trichloroacetaldehyde, <i>see</i> T-10109
				110172-55-9	Gymnocladussaponin D ₁ , G-10144
				110186-13-5	6- <i>O</i> -Acetylshanghiside methyl ester, <i>in</i> S-10057
				110187-21-8	Olivoretin E, O-10034

110298-63-0	8-Methoxychlorotetracycline, M-10039	111950-42-6	Triptofordin D1, <i>in</i> H-10054	141115-54-7	9-[(2-Amino-2-carboxyethyl)thio]-10-hydroxy-3,5,7-tetradecatrienedioic acid; .14N-Ac, <i>in</i> A-10059
110298-64-1	Dactylocyclinone, <i>in</i> M-10039	111950-43-7	Triptofordin E, <i>in</i> H-10025	14176-00-0	Petuniasterone B, P-10087
110298-65-2	8-Methoxy-N-methylchlorotetracycline, <i>in</i> M-10039	111950-73-3	8 α -Benzoxylacetylpringleine, <i>in</i> H-10025	14176-01-1	Petuniasterone C, P-10088
110300-73-7	Calein E, <i>in</i> D-10220	111950-78-8	Withametelin, <i>see</i> W-10004	14176-05-5	Petuniasterone C 22-O-[(methylthio)carbonyl]acetate, <i>in</i> P-10088
110300-74-8	Calein F, <i>in</i> D-10220	111982-69-5	Cyanoginosin LAbA, <i>in</i> C-10150	14176-06-6	Petuniasterone C 22-O-acetate, <i>in</i> P-10088
110383-39-6	Lophirone A, L-10064	111982-70-8	Cyanoginosin FR, <i>in</i> C-10150	14217-05-9	Calceolarioside D, C-10015
110623-74-0	5,19-Dihydroxy-3,14- <i>viscidadien</i> -20-oic acid, D-10263	112018-96-9	Triptofordin D2, <i>in</i> H-10054	14226-36-7	6 β ,9 β -Diacetoxy-1 α -cinnamoyloxy-2 β ,4 β -dihydroxydihydro- β -agarofuran, <i>in</i> P-10045
110623-84-2	5-Hydroxy-3,14- <i>viscidadien</i> -19-oic acid; Me ester, <i>in</i> H-10246	112209-51-5	Protolucumelone, <i>in</i> P-10056	14371-78-7	Anthaxanthone, <i>in</i> T-10073
110623-88-6	5,19-Epoxy-3,14- <i>viscidadien</i> -16-oic acid, E-10167	112209-52-6	1,2,4,7,8-Pentahydroxy-3-(4-hydroxyphenyl)dibenzofuran; 1,2,4,7-Tetra-Ac, <i>in</i> P-10056	14400-89-4	Natriuretic factor 26, N-10007
110660-85-0	Forbeside B, <i>in</i> T-10135	112209-53-7	BL IV, <i>in</i> P-10056	14413-27-3	Paulomycin F, P-10018
110883-46-0	Giracodazole, <i>in</i> A-10056	112209-54-8	1,2,4,7,8-Pentahydroxy-3-(4-hydroxyphenyl)dibenzofuran; 1,2,4,8-Tetra-Ac, <i>in</i> P-10056	14420-66-5	Regalosite A, R-10012
110901-54-7	11,12-Epoxy-5,8,14-eicosatrienoic acid; (5Z,8Z,11R,12S,14Z)-form, Me ester, <i>in</i> E-10079	112246-15-8	(20R)-Ginsenoside Rh ₂ , <i>in</i> D-10011	14420-67-6	Regalosite B, <i>in</i> R-10013
110906-81-5	Ajmaline, <i>see</i> A-10035	112408-68-1	3'-Deoxy-4-O-methylsappanol, <i>in</i> H-10086	14436-05-4	Scutellone E, <i>in</i> D-10217
110941-51-0	Ajmalimine, <i>in</i> A-10035	112468-35-6	Paridiformoside, <i>in</i> E-10069	14489-73-5	Scutellone A, <i>in</i> E-10149
110954-30-8	Rubiflavinone C2, <i>in</i> R-10053	112468-60-7	8 α -Hydroxysambucosin, <i>in</i> S-10009	14489-74-6	Scutellone C, <i>in</i> E-10149
110954-31-9	Rubiflavinone C1, <i>in</i> R-10053	112494-33-4	Triptofordinine A1, <i>in</i> H-10054	14550-08-2	Ferrocin A, <i>in</i> F-10005
110954-32-0	Rubiflavin C2, <i>in</i> R-10053	112501-42-5	Piperolactam A, P-10121	14562-40-2	Ferrocin B, <i>in</i> F-10005
110954-33-1	Rubiflavin D, <i>in</i> R-10053	112516-43-5	Citrusinol, C-10099	14612-77-0	Aesculitannin B, <i>in</i> P-10054
111058-14-1	Rubiflavin C1, R-10053	112516-44-6	Eumaitenin, <i>in</i> T-10042	14637-68-2	Scandenogin C, <i>in</i> C-10142
111103-92-5	Panaxydol chlorohydrin, C-10080	112529-37-0	4-O-Methylepisappanol, <i>in</i> D-10112	14637-69-3	11-Epicarnosiflogenin C, <i>in</i> C-10142
111116-40-6	Syringalactone B, <i>in</i> S-10041	112531-13-2	8 β -Hydroxysambucosin, <i>in</i> S-10009	14637-76-2	Scandenoside R ₁ , <i>in</i> T-10136
111136-25-5	Streptol, <i>in</i> H-10181	112571-89-8	Triptofordinine A2, <i>in</i> H-10054	14637-77-3	Scandenoside R ₃ , <i>in</i> T-10136
111150-31-3	Sapogenin III, <i>in</i> T-10173	112609-09-3	Scuterivulactone D, <i>in</i> T-10039	14637-78-4	Scandenoside R ₅ , <i>in</i> C-10142
111150-40-4	Luteolin; 7-O-(6-O-E-Cinnamoyl- β -D-glucopyranoside), <i>in</i> T-10052	112609-10-6	Scuterivulactone C ₂ , <i>in</i> E-10149	14637-79-5	Scandenoside R ₆ , <i>in</i> C-10142
111150-41-5	Luteolin 7-(6-feruloylglucoside), <i>in</i> T-10052	112663-86-2	1-(2,3-Dihydro-2-oxo-3-furanyl)-5-(hydroxymethyl)-1H-pyrrole-2-carboxaldehyde, D-10100	14653-43-9	Scandenogin A, <i>in</i> T-10136
111187-59-8	Bishomomanicone, <i>in</i> D-10270	112709-53-2	8,13-Epoxy-3,4,6,11-tetrahydro-15,16-clerodanolid, <i>see</i> E-10149	14687-97-7	Majucin, M-10005
111188-76-2	Luteolin 7-(6-p-Coumaroylglucoside), <i>in</i> T-10052	112711-13-4	Anacycline, <i>see</i> A-10079	14687-98-8	Neomajucin, <i>in</i> M-10005
111250-02-3	Fevicordin A, F-10008	112722-00-6	Ginsenoside RA ₀ , <i>in</i> D-10011	14715-44-5	Scandenoside R ₂ , <i>in</i> T-10136
111254-18-3	Episappanol, <i>in</i> D-10112	112727-22-7	Buccinulin, <i>in</i> R-10032	14715-45-6	Scandenoside R ₄ , <i>in</i> T-10136
111254-19-4	Sappanol, <i>in</i> D-10112	112899-63-5	Periplocagenin, P-10082	14828-46-5	Periplocoside A, <i>in</i> P-10082
111254-20-7	3'-Deoxysappanol, <i>in</i> H-10086	112899-64-6	Angeloylsenkyunolide F, <i>in</i> L-10052	14828-47-6	Periplocoside C, <i>in</i> P-10082
111254-21-8	3'-O-Methylsappanol, <i>in</i> D-10112	112899-84-0	Wilfornine, <i>in</i> W-10001	14892-58-9	Shionoside A, <i>in</i> D-10269
111254-22-9	3'-O-Methylepisappanol, <i>in</i> D-10112	112924-15-9	Leukotriene C ₄ , <i>see</i> L-10046	14892-59-0	Shionoside B, <i>in</i> D-10269
111321-27-8	3'-Deoxysappanol; 4',7-Di-Me ether, <i>in</i> H-10086	113270-94-3	Variabiloside C, <i>in</i> P-10133	14915-87-6	6,14-Dihydroxy-1(10),4,11(13)-germacatrien-12,8-olide, <i>see</i> D-10172
111321-29-0	3-(3,4-Dihydroxybenzyl)-3,4,7-chromantriol, <i>see</i> D-10112	113349-27-2	3-(3,4-Dihydroxyphenyl)-2-propen-1-ol, <i>see</i> D-10243	14919-77-6	Cochinmicin II, <i>in</i> C-10112
111321-30-3	3-(3,4-Dihydroxybenzyl)-3,4,7-chromantriol, <i>see</i> D-10112	113349-37-4	Variabiloside D, <i>in</i> P-10133	14924-89-9	Populin; 3-O-Robinoside, <i>in</i> P-10133
111321-31-4	3-(3,4-Dihydroxybenzyl)-3,4,7-chromantriol, <i>see</i> D-10112	113378-31-7	Semduramicin, S-10045	14926-99-7	11-Hydroxyhexadecanoic acid, <i>see</i> H-10160
111321-32-5	3-(3,4-Dihydroxybenzyl)-3,4,7-chromantriol, <i>see</i> D-10112	113430-43-6	Withametelin, W-10004	14927-01-4	3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol; (1R,2S,4S)-form, 3,5-Dinitrobenzoyl, <i>in</i> D-10269
111420-57-6	Cryptosin, <i>in</i> E-10164	113471-89-9	Luteolin; 7-O-[β -D-Allopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], <i>in</i> T-10052	14927-44-5	Gochnatolide, <i>in</i> D-10172
111509-12-7	Specioritchine, <i>in</i> S-10086	113472-20-1	Abcisic alcohol, A-10010	14927-45-6	6,14-Dihydroxy-1(10),4,11(13)-germacatrien-12,8-olide, <i>see</i> D-10172
111509-13-8	Speciocolchicine, <i>in</i> S-10086	113558-13-7	Ikariside E, <i>in</i> C-10099	14958-54-2	2,3,22,23-Tetrahydroxy-25-methylergost-24(28)en-6-one; (2 β ,3 β ,5 α ,22R,23R)-form, <i>in</i> T-10060
111537-40-7	Luteolin; 7-O-[α -L-Arabinofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], <i>in</i> T-10052	113592-87-3	Cryptoporic acid A, C-10137	14973-10-3	Haematommic acid, <i>see</i> F-10015
111618-82-7	Sonchuside A, <i>in</i> H-10151	113592-88-4	Cryptoporic acid B, <i>in</i> C-10137	14973-13-6	Barbatolin, B-10006
111618-84-9	Sonchuside C, <i>in</i> H-10144	113689-38-6	Peregrine, <i>in</i> B-10021	14977-14-9	3,3-Dimethylbicyclo[2.2.1]heptane-2-methanol; (1R,2R,4S)-form, 3,5-Dinitrobenzoyl, <i>in</i> D-10269
111618-85-0	Sonchuside D, <i>in</i> H-10140	113707-10-1	6-Deoxydelpheline, <i>in</i> D-10033	115006-47-8	8,13-Pentadecadien-2-one, P-10032
111618-87-2	25-Methylidolichosterone, <i>in</i> T-10060	113762-87-1	N-Jasmonoyltryptophan, J-10004	115006-48-9	8,11-Pentadecadien-2-one, P-10031
111692-75-2	Nobotanin C, <i>in</i> N-10034	113762-88-2	N-Cucurbinoyltryptophan, <i>in</i> J-10004	115070-76-3	Okanin; 3'-O- β -D-Glucopyranoside, <i>in</i> P-10040
111755-37-4	Cyanoginosin RR, <i>in</i> C-10150	113866-94-7	Nobotanin E, N-10034	115124-95-3	Syringoside, <i>in</i> S-10065
111768-22-0	2-Methyl-4-oxopentanedioic acid; (R)-form, <i>in</i> M-10067	113900-93-9	Nobotanin H, N-10035	115178-89-7	20-Trifluoroarachidonic acid, <i>in</i> E-10009
111897-19-9	4,4',5,5',6,6'-Hexahydroxy-2,2'-biphenyldicarboxylic acid, <i>see</i> H-10051	113900-95-1	Nobotanin J, N-10036	115204-07-4	Onnamide A, O-10035
111897-25-7	4,4',5,5',6,6'-Hexahydroxy-2,2'-biphenyldicarboxylic acid, <i>see</i> H-10051	113953-02-9	Phtheirospermoside, <i>in</i> D-10235	115219-85-7	5'-Acetoxy-2'-hydroxyflavone, <i>in</i> D-10163
111897-26-8	4,4',5,5',6,6'-Hexahydroxy-2,2'-biphenyldicarboxylic acid, <i>see</i> H-10051	113982-29-9	Oxaspirol B, <i>in</i> O-10051	115219-94-8	O-Methylvaliflavanone C, <i>in</i> T-10189
111924-44-8	Argiotoxin 673, A-10120	114029-71-9	Oxaspirol C, <i>in</i> O-10051		
111944-83-3	Argiotoxin 659, A-10119	114077-04-2	Soyasaponin A ₃ , <i>in</i> O-10031		
		114115-51-4	13-[(2-Amino-2-carboxyethyl)thio]-14-hydroxy-4,7,9,11-octadecatetraenedioic acid; N-Ac, <i>in</i> A-10058		
		114115-52-5	11-[(2-Amino-2-carboxyethyl)thio]-12-hydroxy-5,7,9-hexadecatriedioic acid; N-Ac, <i>in</i> A-10057		

115225-96-2	3,6,20-Trihydroxycholest-9(11)-en-23-one, <i>see</i> T-10135	117255-05-7	3 β -Hydroxyisoagatholal, <i>in</i> L-10007	118964-22-0	8-(2,4-Dihydroxyphenyl)-2,10-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2H,8H-benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,5,9-triol; (2R,3S,8R,9R,10S)- <i>form</i> , <i>in</i> D-10230
115299-23-5	2-Hydroxy-3-(sulfoxy)propyl-5-deoxy-5-(trimethylarsonio)- β -D-ribofuranoside, <i>see</i> H-10228	117259-33-3	Tangshenone II, <i>in</i> T-10183	118964-31-1	4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,7,8-tetrahydro-2H,6H-benzo[1,2- <i>b</i> :5,4- <i>b'</i>]dipyrans-3,7-diol; (2R,3S,4S,7S,8R)- <i>form</i> , <i>in</i> D-10227
115330-90-0	Kaikasaponin III, <i>in</i> O-10024	117278-48-5	Mzikonone, <i>in</i> M-10097	118964-36-6	3-Hydroxycholesta-5,22-dien-7-one; (3 β ,22E)- <i>form</i> , <i>in</i> H-10097
115330-93-3	Sophoradiol; 3-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- α -L-arabinopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside], <i>in</i> O-10024	117288-86-5	Chlorophyll a, <i>see</i> C-10084	119065-84-8	8-(2,4-Dihydroxyphenyl)-2,10-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2H,8H-benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,5,9-triol; (2R,3S,8R,9R,10S)- <i>form</i> , <i>in</i> D-10230
115345-33-0	Haplosinine, <i>in</i> H-10002	117306-99-7	Argiotoxin 659, <i>see</i> A-10119	119065-88-2	4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2H,8H-benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,5,9-triol; (2S,3S,4R,8R,9S)- <i>form</i> , <i>in</i> D-10229
115397-25-6	2-(3,4-Dihydroxyphenyl)ethanol; 4-O-(6-O-Galloyl- β -D-glucopyranoside), <i>in</i> D-10235	117332-55-5	Cryptanoside B, <i>in</i> E-10165	119065-92-8	10-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2H,8H-benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,5,9-triol; (2S,3S,4R,8R,9S)- <i>form</i> , <i>in</i> D-10229
115406-24-1	Castanin, <i>in</i> C-10036	117332-57-7	Cryptanoside C, <i>in</i> E-10164	119065-94-0	4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2H,8H-benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,5,9-triol; (2R,3S,4R,8R,9S)- <i>form</i> , <i>in</i> D-10231
115439-62-8	Fenfangjine D, <i>in</i> F-10001	117332-59-9	Cryptanoside D, <i>in</i> E-10165	119067-90-2	10-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2H,8H-benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,5,9-triol; (2R,3S,8R,9S,10R)- <i>form</i> , <i>in</i> D-10231
115491-59-3	Neohyacinthoside, <i>in</i> S-10072	117333-02-5	8-Hydroxy-5,9,11,14-eicosatetraenoic acid; (5Z,8R,9E,11Z,14Z)- <i>form</i> , <i>Et ester</i> , <i>in</i> H-10129	119087-41-1	Triandrin A, T-10102
115518-27-9	Mongolicain A, M-10086	117415-46-0	Caudoxirene, C-10038	119089-44-0	Piptocarphol, <i>in</i> E-10151
115518-28-0	Mongolicain B, M-10087	117479-71-7	Cassioid, <i>in</i> C-10031	119152-52-2	Pardarinoside A, <i>in</i> F-10036
115569-73-8	Septentriosine, S-10048	117505-92-7	Triandrin B, T-10103	119152-53-3	Pardarinoside B, <i>in</i> F-10038
115569-75-0	Corybrachylobine, <i>in</i> C-10128	117585-46-3	Glacialoside B, <i>in</i> C-10090	119188-47-5	10-Hydroxyscandine, <i>in</i> S-10030
115648-96-9	Fenfangjine B, <i>in</i> F-10001	117585-52-1	Glacialoside A, <i>in</i> C-10091	119227-96-2	Okanin; 4-Me ether, 3'-O- β -D-glucopyranoside, <i>in</i> P-10040
115648-97-0	Fenfangjine C, <i>in</i> F-10001	117591-80-7	Ginsenosol, G-10035	119259-63-1	Petuniasterone D, P-10089
115743-49-2	Periplocoside B, <i>in</i> P-10082	117591-85-2	Regaloside C, <i>in</i> R-10012	119259-66-4	Petuniasterone D, <i>see</i> P-10089
115795-44-3	29-(2,3,4,5-Tetrahydroxypentyl)-6-hopene; (32R,33R,34S)- <i>form</i> , <i>in</i> T-10064	117591-86-3	Methylregaloside A, <i>in</i> R-10012	119259-67-5	12 α -Acetoxypetuniasterone D 7-acetate, <i>in</i> P-10089
116002-55-2	1,2,3,4-Octadecanetetrol; (2R,3S,4S)- <i>form</i> , <i>in</i> O-10009	117610-40-9	Rzedowskin A, <i>in</i> P-10045	119308-26-8	Petuniasterone D, <i>see</i> P-10089
116002-56-3	1,2,3,4-Octadecanetetrol; (2R,3S,4R)- <i>form</i> , <i>in</i> O-10009	117614-80-9	α ,3,4,4'-Tetrahydroxy-2'-methoxydihydrochalcone, <i>in</i> D-10233	119309-00-1	Homolycorine N-oxide, <i>in</i> H-10069
116002-57-4	1,2,3,4-Octadecanetetrol; (2R,3R,4S)- <i>form</i> , <i>in</i> O-10009	117639-10-8	Rheinanthrone, <i>see</i> D-10094	119320-26-2	Natriuretic factor 32 (pig brain reduced), <i>in</i> N-10007
116044-06-5	Triacetonioic acid; Pentyl ester, <i>in</i> T-10100	117675-20-4	Leukotriene G ₄ , L-10048	119371-58-3	Delelatine, <i>in</i> D-10033
116064-76-7	Piperolactam C, <i>in</i> P-10121	117677-26-6	Rzedowskin D, <i>in</i> P-10045	119455-31-1	Theonellamide F, T-10084
116084-93-6	Piperolactam D, <i>in</i> P-10121	117678-06-5	2-Amino- α -(2-amino-1-chloroethyl)-1H-imidazole-4-methanol, <i>see</i> A-10056	119459-58-4	Regaline, <i>in</i> B-10021
116085-00-8	Dunnianin, D-10312	117804-07-6	Cynarasaponin A, <i>in</i> H-10242	119459-67-5	Citramine, <i>in</i> P-10038
116085-01-9	6-Deoxydunnianin, <i>in</i> D-10312	117804-08-7	Cynarasaponin B, <i>in</i> H-10242	119478-89-6	15 β -Hydroxyvincadifformine, <i>in</i> V-10022
116139-60-7	Delstaphisinine, <i>in</i> S-10046	117804-09-8	Cynarasaponin C, <i>in</i> H-10242	119513-72-3	Glochidioside N, <i>in</i> O-10027
116159-73-0	Celanguin, <i>in</i> H-10025	117804-10-1	Cynarasaponin D, <i>in</i> D-10261	119539-76-3	Glochidioside Q, <i>in</i> O-10027
116339-93-6	Pubescenine†, P-10169	117804-11-2	Cynarasaponin E, <i>in</i> D-10261	119558-02-0	Cassioside†, <i>in</i> T-10129
116384-08-8	Isoapressin, <i>in</i> E-10027	117804-12-3	Cynarasaponin F, <i>in</i> D-10259	119558-04-2	Marginside, <i>in</i> T-10129
116425-28-6	Scoparic acid C, <i>in</i> H-10196	117804-13-4	Cynarasaponin G, <i>in</i> D-10259	119614-69-6	Scutellone B, <i>in</i> E-10149
116425-29-7	Scoparic acid B, <i>in</i> H-10117	117804-15-6	Cynarasaponin J, <i>in</i> D-10211	119626-74-3	Spinoside A, <i>in</i> C-10140
116425-36-6	Curcumadione, X-10001	117804-17-8	3-Hydroxy-12-ursen-28-oic acid, <i>see</i> H-10242	119626-75-4	Spinoside B, <i>in</i> C-10140
116446-55-0	Isocurcumadione, X-10002	117804-18-9	3-Hydroxy-12-ursen-28-oic acid, <i>see</i> H-10242	119683-39-5	Nobotanin K, N-10037
116475-35-5	Paulomycin U, <i>in</i> P-10016	117804-19-0	3,21-Dihydroxy-12-ursen-28-oic acid, <i>see</i> D-10259	119752-76-0	Brassilexin, I-10053
116539-62-9	8-Keto-5,9,11,14-eicosatetraenoic acid, <i>in</i> H-10129	117804-21-4	3,21-Dihydroxy-12-ursen-28-oic acid, <i>see</i> D-10259	119763-89-2	Weisiensin A, <i>in</i> K-10007
116709-64-9	Periplocoside D, <i>in</i> P-10082	117804-24-7	3,21-Dihydroxy-12-oleanen-28-oic acid, <i>see</i> D-10211	119902-15-7	Periplocoside J, <i>in</i> P-10140
116709-65-0	Periplocoside E, <i>in</i> P-10140	117804-25-8	3-Hydroxy-12-ursen-28-oic acid, <i>see</i> H-10242	119902-17-9	Periplocoside F, <i>in</i> P-10140
116709-66-1	Periplocoside L, <i>in</i> P-10140	117827-84-6	3,23-Dihydroxy-12-ursen-28-oic acid, <i>see</i> D-10261	119979-94-1	Cryptoporic acid C, <i>in</i> C-10138
116709-67-2	Periplocoside O, <i>in</i> P-10082	117849-92-0	3,23-Dihydroxy-12-ursen-28-oic acid, <i>see</i> D-10261	119979-95-2	Cryptoporic acid D, <i>in</i> C-10138
116752-10-4	8,11-Pentadecadien-2-one; (8Z,11Z)- <i>form</i> , <i>in</i> P-10031	117894-18-5	Taxifolin, <i>see</i> P-10050		
116782-73-1	Periplocoside M, <i>in</i> P-10082	118021-34-4	2,6-Diamino-4-oxohexanoic acid; (S)- <i>form</i> , <i>in</i> D-10047		
116810-75-4	Castanopsinin CA, C-10034	118024-86-5	Luteolin; 3'-O- β -D-Glucopyranoside, 7-O-rutinoside, <i>in</i> T-10052		
116965-72-1	Calocinin, <i>in</i> P-10139	118096-33-6	Comastomaside, <i>in</i> T-10073		
117121-29-6	Cholestane-3,6,8,15,24-pentol; (3 β ,5 α ,6 α ,15 α ,24S)- <i>form</i> , <i>in</i> C-10091	118101-72-7	Preheliminthosporolactone, <i>in</i> P-10142		
117210-04-5	Kaikasaponin I, <i>in</i> O-10024		Euphorbin A, E-10230		
117210-05-6	Kaikasaponin II, <i>in</i> O-10024	118102-86-6	Acetylsoyasaponin A ₁ , <i>in</i> O-10031		
117210-16-9	Acetylsoyasaponin A ₃ , <i>in</i> O-10031	118194-13-1	12-Oleanene-3,22,30-triol, <i>see</i> O-10032		
117213-71-5	Lecocarpinolate B, <i>in</i> T-10178	118525-50-1	Licoricesaponin D3, <i>in</i> O-10032		
117230-32-7	Acetylsoyasaponin A ₂ , <i>in</i> O-10031	118536-87-1	Chlorophyll a, <i>see</i> C-10084		
117230-33-8	Acetylsoyasaponin A ₄ , <i>in</i> O-10031	118626-30-5	13-Hydroxyneocembrene, <i>in</i> C-10054		
117230-34-9	Acetylsoyasaponin A ₅ , <i>in</i> O-10031	118628-93-6	3,4-Dihydro-7,8-dihydroxy-3-methyl-1H-2-benzopyran-1-one, D-10093		
117230-35-0	Acetylsoyasaponin A ₆ , <i>in</i> O-10031	118853-80-8	8,11,13-Pentadecatrien-2-one; (8E,11Z,13Z)- <i>form</i> , <i>in</i> P-10034		
117232-44-7	8(17),13-Labdadiene-3,15,19-triol; (3 β ,13E)- <i>form</i> , 19-Aldehyde, 3-Ac, <i>in</i> L-10007	118853-87-5	8,11,13-Pentadecatrien-2-one; (8Z,11E,13Z)- <i>form</i> , <i>in</i> P-10034		
117233-41-7	Argiopinin II, <i>see</i> A-10118	118891-87-5	Oreodaphnenol, O-10044		
117233-42-8	Argiopinin II, A-10118	118918-23-3	Margocetin, <i>in</i> D-10093		
117254-99-6	3 α -Hydroxyisoagatholal, <i>in</i> L-10007				

119998-59-3	Sessiliflorene, S-10052	121703-31-9	3-(15-Hexadecynylidene)dihydro-4-hydroxy-5-methyl-2(3 <i>H</i>)-furanone, <i>see</i> H-10044	123618-28-0	Frangulatrioside A, <i>in</i> T-10123
119998-60-6	Sessiliflorol A, S-10053			123676-76-6	Gambiertoxin 4b, <i>in</i> C-10097
119998-61-7	Sessiliflorol B, S-10054			123750-34-5	Tannagine, T-10002
120001-10-7	Cryptoporac acid E, <i>in</i> C-10138	121707-70-8	3,7-Dihydroxy-4 <i>H</i> -1-benzopyran-4-one; Di- <i>O</i> - β -D-glucopyranoside, <i>in</i> D-10111	123853-57-6	Sarcophytol P, <i>in</i> C-10050
120021-28-5	Izumenolide, <i>see</i> I-10059			123853-58-7	Sarcophytol R, <i>in</i> C-10047
120090-78-0	Psorolactone B, P-10165	121795-66-2	Assamicain A, A-10134	123914-35-2	Scuteamoenoside, <i>in</i> T-10050
120090-79-1	Homoferruginin B, H-10068	121795-67-3	Assamicain C, A-10135	123930-90-5	Sarcophytol S, <i>in</i> C-10047
120090-89-3	2-Prenylphyscion anthrone, <i>in</i> T-10165	121817-38-7	Lansiumamide C, <i>in</i> P-10098	123930-91-6	Sarcophytol F, <i>in</i> C-10053
120090-95-1	<i>O</i> -Prenylvismione E, <i>in</i> V-10032	121844-27-7	Assamicain B, <i>in</i> A-10134	123931-38-4	11,12-Epoxy-5,8,14-eicosatrienoic acid; (5 <i>Z</i> ,8 <i>Z</i> ,11 <i>R</i> ,12 <i>S</i> ,14 <i>Z</i>)- <i>form</i> , <i>in</i> E-10079
120152-00-3	9,11-Epoxycholest-7-ene-3,5,6-triol; (3 <i>\beta</i> ,5 <i>\alpha</i> ,6 <i>\beta</i> ,9 <i>\alpha</i> ,11 <i>\alpha</i>)- <i>form</i> , <i>in</i> E-10042	121903-97-7	Gymnemic acid VII, <i>in</i> O-10027	123931-40-8	11,12-Epoxy-5,8,14-eicosatrienoic acid; (5 <i>Z</i> ,8 <i>Z</i> ,11 <i>S</i> ,12 <i>R</i> ,14 <i>Z</i>)- <i>form</i> , <i>in</i> E-10079
120160-94-3	1-(Hydroxymethyl)-5-cyclohexene-1,2,3,4-tetrol; (1 <i>S</i> ,2 <i>S</i> ,3 <i>R</i> ,4 <i>S</i>)- <i>form</i> , 3,7-Dibenzoyl, <i>in</i> H-10180	121904-03-8	Scutellone H, <i>in</i> T-10039		
120217-42-7	Sanggenon Q, S-10012	121924-21-8	Scutellone I, <i>in</i> T-10039		
120330-95-2	<i>N</i> -Jasmonyltryptophan, <i>see</i> J-10004	121927-69-3	Canariquinone, <i>in</i> D-10106	123931-77-1	Sarcophytol Q, <i>in</i> C-10056
120500-21-2	Laxaphycin A, L-10034	121960-93-8	Scutellone G, <i>in</i> E-10071	123931-78-2	Sarcophytol K, <i>in</i> C-10049
120552-53-6	Operculin I, O-10039	121994-08-9	Abrisapogenol F, <i>in</i> O-10024	123941-76-4	Umbrosianin, <i>in</i> T-10058
120583-61-1	Operculin II, O-10040	122051-33-6	Physodin A, <i>in</i> T-10175	123941-77-5	Rabdoumbrosanin, <i>in</i> S-10058
120583-62-2	Operculinic acid A, <i>in</i> H-10160	122051-34-7	Physodin B, <i>in</i> T-10061	124166-21-8	Nupharin F, N-10053
120593-80-8	Pyrenolide D, P-10177	122051-36-9	Physodin D, <i>in</i> D-10121	124183-38-6	6'-Vanilloylpediguloside, <i>in</i> H-10223
120601-64-1	Regaloside G, <i>in</i> R-10013	122069-58-3	13-[(2-Amino-2-carboxyethyl)thio]-14-hydroxy-4,7,9,11-octadecatetraenedioic acid, A-10058	124183-39-7	Pediguloside, <i>in</i> H-10223
120601-66-3	Regaloside D, R-10013	122069-63-0	11-[(2-Amino-2-carboxyethyl)thio]-12-hydroxy-5,7,9-hexadecatriedioic acid, A-10057	124355-21-1	Ovalifavanone B, <i>see</i> H-10222
120692-19-5	Pneumocandin A _p , P-10125	122074-68-4	Physodin C, <i>in</i> D-10121	124439-27-6	α -Bergamotenic acid, B-10015
120693-54-1	Distenin, <i>in</i> T-10147	122231-00-4	Leukotriene D ₄ , <i>see</i> L-10047	124596-51-6	Pycnopodioside B, <i>in</i> C-10091
120786-18-7	Huperzine A, <i>see</i> H-10074	122384-95-6	Paciline, <i>in</i> D-10033	124596-52-7	Pycnopodioside C, <i>in</i> C-10091
120786-77-8	3-Hydroxy-5,7-dimethoxyflavan, <i>in</i> T-10147	122537-19-3	Oxysin, <i>in</i> P-10139	124609-38-7	Pycnopodioside A, <i>in</i> C-10091
120876-12-2	Nostrenol, <i>see</i> U-10008	122560-55-8	Dihydrolanosteryl oleate, <i>in</i> L-10024	124681-12-5	Fischeriana B, <i>in</i> C-10037
120901-51-1	3,3',4,4'-Tetrahydroxy-5,5'-diisopropyl-2,2'-dimethylbiphenyl, T-10044	122566-58-9	Indicine†, <i>in</i> P-10139	124753-87-3	Clerodin C, C-10110
120926-44-5	Nostrenol; (2 <i>R</i> ,6 <i>Z</i>)- <i>form</i> , <i>in</i> U-10008	122585-72-2	Ocimepyrone, O-10005	124815-92-5	Clerodin D, <i>in</i> C-10110
120926-45-6	Nostrenol, <i>see</i> U-10008	122587-82-0	Ajugamarin A2, <i>in</i> E-10150	124843-18-1	Pectenotoxin 6, <i>in</i> P-10020
121043-05-8	11-Hydroxyhexadecanoic acid, <i>see</i> H-10160	122587-83-1	Ajugamarin G1, <i>in</i> E-10150	124853-93-6	3,21,22-Trihydroxy-12-oleanen-29-oic acid; (3 <i>\beta</i> ,21 <i>\beta</i> ,22 <i>\beta</i>)- <i>form</i> , 3- <i>O</i> -[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside], <i>in</i> T-10171
121135-00-0	Hexadellin A, H-10045	122587-84-2	Ajugamarin F4, <i>in</i> E-10156	124853-98-1	Daturametelin F, D-10016
121153-17-1	11-Hydroxyhexadecanoic acid, <i>see</i> H-10160	122587-85-3	Ajugamarin F1, <i>in</i> E-10156	124854-04-2	Mallotusin, M-10010
121154-13-0	10-Methoxy-3-epi- α -yohimbine, <i>in</i> M-10042	122616-88-0	Ajugamarin H1, <i>in</i> E-10150	124854-66-6	Clerodin A, <i>in</i> C-10110
121230-30-6	4,7-Dihydroxy-8-formyl-5-methoxy-6-methylflavan, <i>in</i> T-10148	122759-72-2	Dihydroxyaerotherionin, <i>in</i> A-10028	124854-67-7	Clerodin B, <i>in</i> C-10110
121245-07-6	Tetraenomycin X, <i>in</i> T-10021	122768-96-1	Isonavicular, <i>see</i> I-10038	124888-91-1	3-(3-Hydroxypropyl)phthalide, H-10223
121250-35-9	4,14-Dimethylergosta-8,24(28)-dien-3-ol, <i>see</i> D-10271	122798-42-9	Isonabimuxinol, <i>in</i> H-10110	124902-00-7	2,3-Dihydroxy-2,4-cyclopentadien-1-one, D-10130
121254-53-3	Spiromentin A, S-10095	122823-41-0	Astrocerebroside B, <i>in</i> A-10142	124903-85-1	Atrocaryone, D-10102
121254-56-6	Spiromentin B, S-10096	122823-47-6	Astrocerebroside C, <i>in</i> A-10142	124958-29-8	Neocarzinin A, T-10111
121254-57-7	Spiromentin C, S-10097	122855-48-5	10-Acetylpanaxytriol, <i>in</i> H-10024	124958-30-1	Neocarzinin C, <i>in</i> T-10110
121254-58-8	Spiromentin D, S-10098	122855-49-6	Panaxyne, T-10022	124960-89-0	Tectoroside, <i>in</i> D-10175
121283-87-2	Luteolin; Continued- <i>form</i> , 7- <i>O</i> -[Disulfolglucoside], <i>in</i> T-10052	122923-45-9	Neisosposinine, <i>in</i> C-10021	124961-64-4	2,4-Dihydroxy-12,8-pseudoguaianolide; (1 <i>\alpha</i> ,2 <i>\alpha</i> ,4 <i>\beta</i> ,5 <i>\beta</i> ,8 <i>\beta</i> ,10 <i>\alpha</i> ,11 <i>\beta</i> <i>H</i>)- <i>form</i> , <i>in</i> D-10251
121313-79-9	Izumenolide, <i>see</i> I-10059	122947-98-2	Vallartanone A, V-10002	125002-00-8	Neocarzinin B, T-10110
121324-57-0	Pulveric acid, <i>in</i> P-10091	122947-99-3	Vallartanone B, V-10003	125002-75-7	Suspensolide C, S-10134
121324-61-6	11-Oxopaffic acid, <i>in</i> P-10091	123003-45-2	Baconipyrene A, B-10001	125028-61-7	Pseudomajucin, P-10162
121324-63-8	Pfaffoside G, <i>in</i> P-10091	123003-46-3	Baconipyrene B, B-10002	125092-39-9	Sordariolone, S-10081
121340-69-0	11-Deoxopulveric acid, <i>in</i> P-10091	123003-47-4	Baconipyrene C, B-10003	125127-57-3	Forbeside E, <i>in</i> P-10141
121340-71-4	Sarcophytol O, <i>in</i> C-10052	123003-48-5	Baconipyrene D, B-10004	125132-27-6	6-Methyl-3-benzofuranmethanol, M-10044
121353-47-7	Ohioensin A, O-10019	123064-67-5	Isodelpheline, <i>in</i> D-10033	125132-28-7	3-(Acetoxymethyl)-6-methylbenzofuran, <i>in</i> M-10044
121387-38-0	Rotungenoside, <i>in</i> T-10195	123064-69-7	Eladine, <i>in</i> D-10033	125132-29-8	3-(Isobutyryloxymethyl)-6-methylbenzofuran, <i>in</i> M-10044
121398-03-6	2,3,22,23-Tetrahydroxy-25-methylergost-24(28)en-6-one; (2 <i>\beta</i> ,3 <i>\alpha</i> ,5 <i>\alpha</i> ,22 <i>R</i> ,23 <i>R</i>)- <i>form</i> , <i>in</i> T-10060	123123-41-1	Capsimine, <i>in</i> E-10206	125137-21-5	Teukotschyn, <i>in</i> D-10074
	2,3,22,23-Tetrahydroxy-25-methylergost-24(28)en-6-one, <i>see</i> T-10060	123132-69-4	3,4,4'-Trihydroxy-5,5'-diisopropyl-2,2'-dimethylbiphenyl, <i>in</i> T-10044	125139-67-5	Polyphemusin I, P-10127
121421-64-5	Sarcophytol G, <i>in</i> C-10048	123154-33-6	Pisasteroside A, <i>in</i> E-10184	125139-68-6	Polyphemusin II, P-10128
121421-65-6	Sarcophytol I, <i>in</i> C-10051	123154-34-7	Pisasteroside B, <i>in</i> C-10091	125263-65-2	Rubiprasin A, <i>in</i> T-10170
121421-66-7	Sarcophytol H, <i>in</i> C-10052	123154-35-8	Pisasteroside C, <i>in</i> S-10123	125263-66-3	Rubiprasin B, <i>in</i> D-10206
121421-67-8	Sarcophytol J, <i>in</i> C-10049	123164-25-0	Isocapsicastrine, <i>in</i> E-10206	125263-67-4	Rubiprasin C, <i>in</i> D-10210
121421-68-9	Sarcophytol N, <i>in</i> C-10053	123297-25-6	Daturametelin C, D-10013	125263-68-5	3,13,15-Trihydroxy-12-oleananone; (3 <i>\beta</i> ,13 <i>\beta</i> ,15 <i>\alpha</i>)- <i>form</i> , 3,15-Di-Ac, <i>in</i> T-10170
121449-65-8	Ajugamarin B2, <i>in</i> E-10150	123297-93-8	Ajugamarin B5, <i>in</i> E-10150	125263-69-6	Spiranthesol, S-10090
121449-66-9	Ajugamarin B3, <i>in</i> E-10150	123297-94-9	Ajugamarin E1, <i>in</i> E-10150	125263-87-8	Nuttallianine, <i>in</i> S-10046
121620-06-2	Isoamericanol A, I-10021	123297-95-0	Ajugamarin E2, <i>in</i> E-10150	125263-90-3	6-Epipubescenine, <i>in</i> P-10169
		123297-96-1	Ajugamarin E3, <i>in</i> E-10150	125288-20-2	2-Methoxy-4-hydroxyphenyl 1- <i>O</i> -(6- <i>O</i> -galloyl- β -D-glucopyranoside), <i>in</i> B-10013
		123297-97-2	Ajugamarin F2, <i>in</i> E-10156		
		123297-98-3	Ajugamarin F3, <i>in</i> E-10156	125288-21-3	3-Methoxy-4-hydroxyphenyl 1- <i>O</i> -2,6-di- <i>O</i> -galloyl- β -D-glucopyranoside, <i>in</i> B-10013
		123298-93-1	14(2 <i>T</i>),17,21-Malabaricatriene; 13 <i>\alpha</i> <i>H</i> - <i>form</i> , <i>in</i> M-10006		
		123313-58-6	Ajugamarin B4, <i>in</i> E-10150		
		123337-90-6	Natriuretic factor 45, N-10008		
		123357-28-8	14(2 <i>T</i>),17,21-Malabaricatriene; 13 <i>\beta</i> <i>H</i> - <i>form</i> , <i>in</i> M-10006		
		123444-54-2	Umbraculum B, U-10004		
		123519-72-2	Barbinidine, <i>in</i> D-10033		
		123522-98-5	Isowithametelin, <i>in</i> W-10004		
		123523-03-5	Withametelin F, <i>in</i> W-10004		
		123617-34-5	Ginsenoside La, <i>in</i> E-10058		

125288-22-4	3-Methoxy-4-hydroxyphenyl 1- <i>O</i> -(2,3,6-tri- <i>O</i> -galloyl- β -D-glucopyranoside), in B-10013	126415-34-7	11-Methyl-3-undecenolide, <i>see</i> M-10078	127612-72-0	4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-6-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,7-dihydroxy-2 <i>H</i> -1-benzopyran-4-yl]-3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> -benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,5,9-triol; 3''-Deoxy, in D-10226
125292-57-1	Cycloart-24-ene-3,21-diol; 3 β -form, in C-10161	126431-38-7 126453-84-7 126465-32-5 126465-33-6 126526-79-2	Isocodonocarpine, in C-10001 Pingpeisaponin, in S-10101 Operculinic acid D, in H-10160 Operculinic acid E, in H-10160 Garlicin†, G-10021	127612-91-3	6-(3,7-Dihydroxychroman-2-yl)-4-(2,4-dihydroxyphenyl)-3,3',4',8-tetrahydroxyflavan; (2 <i>R</i> ,2'' <i>R</i> ,3 <i>S</i> ,3'' <i>S</i> ,4 <i>S</i>)-form, in D-10127
125292-61-7	3-Oxocycloart-24-en-21-al, in C-10161	126572-20-1 126585-80-6 126589-95-5 126594-42-1 126594-59-0 126602-16-2 126617-61-6 126622-17-1	Operculinic acid B, in H-10160 Jaeskeanidin, in D-10019 Specioside B, in S-10084 Sativoside B1, in F-10037 Cornusini F, in C-10127 Epiderstatin, E-10025 Specioside A, in S-10084	127644-45-5	4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,7,8-tetrahydro-2 <i>H</i> ,6 <i>H</i> -benzo[1,2- <i>b</i> :5,4- <i>b'</i>]dipyrans-3,7-diol; (2 <i>R</i> ,3 <i>S</i> ,4 <i>S</i> ,7 <i>S</i> ,8 <i>S</i>)-form, in D-10227
125292-62-8	3-Hydroxycycloart-24-en-21-al, in C-10161	126622-95-9 126632-96-0 126640-91-3 126642-32-8 126643-17-2 126655-06-9	2,3-Dimethoxy-1,5,6-trihydroxy-10-methylacridone, in P-10038 Cryptoporinic acid F, in C-10138 Cryptoporinic acid G, C-10138 Thaicanine; (\pm)-form, in T-10081 Operculinic acid C, in H-10160 Specionin†, S-10084	127644-47-7	4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,7,8-tetrahydro-2 <i>H</i> ,6 <i>H</i> -benzo[1,2- <i>b</i> :5,4- <i>b'</i>]dipyrans-3,7-diol; (2 <i>R</i> ,3 <i>S</i> ,4 <i>R</i> ,7 <i>S</i> ,8 <i>R</i>)-form, in D-10227
125295-13-8	6 β -Hydroxyhuperzine A, in H-10074	126655-08-1	6-(3,4-Dihydroxyphenyl)-6 <i>a</i> ,12 <i>b</i> -dihydro-3,10,11,12-tetrahydroxy[2]benzopyrano[3,4- <i>c</i>][1]benzopyran-8(6 <i>H</i>)-one; (2 <i>R</i> ,3 <i>S</i> ,4 <i>S</i>)-form, in D-10232	127644-49-9	4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,7,8-tetrahydro-2 <i>H</i> ,6 <i>H</i> -benzo[1,2- <i>b</i> :5,4- <i>b'</i>]dipyrans-3,7-diol; (2 <i>R</i> ,3 <i>S</i> ,4 <i>R</i> ,7 <i>S</i> ,8 <i>S</i>)-form, in D-10227
125302-31-0	3-Hydroxycycloart-24-en-21-oic acid, in C-10161	126665-07-4 126705-54-2	6 <i>a</i> ,12 <i>b</i> -Dihydro-3,10,11,12-tetrahydroxy-6-(3,4,5-trihydroxyphenyl)[2]benzopyrano[3,4- <i>c</i>][1]benzopyran-8(6 <i>H</i>)one, in D-10232	127644-51-3	4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,7,8-tetrahydro-2 <i>H</i> ,6 <i>H</i> -benzo[1,2- <i>b</i> :5,4- <i>b'</i>]dipyrans-3,7-diol, <i>see</i> D-10227
125377-87-9	3,4-Diaminobutanoic acid; (S)-form, N ³ -Tri-Me, in D-10044	126715-88-6 126715-94-4	Astrocerebroside A, in A-10142 4-Hydroxy-2,10(14),11(13)-guaiatrien-12,6-olide; (4 β ,6 α)-form, in H-10155	127644-53-5	4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,7,8-tetrahydro-2 <i>H</i> ,6 <i>H</i> -benzo[1,2- <i>b</i> :5,4- <i>b'</i>]dipyrans-3,7-diol, <i>see</i> D-10227
125445-43-4	Rabdoinflexin A, in E-10153	126737-60-8	Oolonghomobisflavan B, O-10037	127644-55-7	4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,7,8-tetrahydro-2 <i>H</i> ,6 <i>H</i> -benzo[1,2- <i>b</i> :5,4- <i>b'</i>]dipyrans-3,7-diol, <i>see</i> D-10227
125445-51-4	Mallotinin, M-10009	126841-00-7	Prodelphinidin A ₂ 3'-gallate, in P-10151	127644-57-9	4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,7,8-tetrahydro-2 <i>H</i> ,6 <i>H</i> -benzo[1,2- <i>b</i> :5,4- <i>b'</i>]dipyrans-3,7-diol, <i>see</i> D-10227
125445-59-2	Gerberin, in D-10097	126844-81-3 126948-20-7	Oolonghomobisflavan A, O-10036	127644-75-1	10-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> -benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,9-diol; (2 <i>R</i> ,3 <i>S</i> ,8 <i>R</i> ,9 <i>S</i> ,10 <i>S</i>)-form, in D-10228
125456-47-5	Pardarinoside E, in S-10100	127054-49-3	11-Methyl-3-undecenolide, <i>see</i> M-10078	127644-77-3	10-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> -benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,9-diol; (2 <i>R</i> ,3 <i>S</i> ,8 <i>S</i> ,9 <i>S</i> ,10 <i>R</i>)-form, in D-10228
125456-48-6	Pardarinoside F, in F-10036	127061-75-0	11-Methyl-3-undecenolide, <i>see</i> M-10078	127702-72-1	3,6,9,12,15,18-Heneicosahexaene, H-10014
125456-49-7	Pardarinoside G, in F-10038	127072-56-4	11-Methyl-3-undecenolide, <i>see</i> M-10078	127725-07-9	Haematommic acid, <i>see</i> F-10015
125456-64-6	Rabdoinflexin B, in T-10059	127214-79-3 127214-80-6 127214-81-7 127214-82-8 127350-65-6	Nagstatin, N-10002 8,13-Pentadecadien-2-one; (8 <i>Z</i> ,13 <i>Z</i>)-form, in P-10032 6 <i>a</i> ,14-Dihydroxy-1(10) <i>E</i> ,4 <i>E</i> -germacradien-12,8 <i>a</i> -olide, in D-10172 Cerebronic acid; (R)-form, Ac, in H-10229 6 <i>a</i> -Hydroxy-14-oxo-1(10) <i>E</i> ,4 <i>E</i> -germacradien-12,8 <i>a</i> -olide, in D-10172	127750-93-0	Betulafolienetriol; 3-Ketone, 12-Ac, in D-10011
125472-06-2	Drevogenin II, in P-10138	127214-87-3 127612-67-3	Ulmoidoside A, U-10002 Ulmoidoside B, in U-10002 Ulmoidoside C, U-10003 Ulmoidoside D, in U-10003 Luteolin; 7- <i>O</i> -(6''-Malonylneohesperidoside), in T-10052	127888-78-2	11-Methyl-3-undecenolide, <i>see</i> M-10078
125477-03-4	Pardarinoside C, in F-10036		Emycin A, E-10015	127909-96-0	2-Amino- α -(2-amino-1-chloroethyl)-1 <i>H</i> -imidazole-4-methanol; (2' <i>R</i> <i>S</i> ,3' <i>S</i> <i>R</i>)-form, B,2HCl, in A-10056
125477-04-5	Pardarinoside D, in F-10038		4-(2,4-Dihydroxyphenyl)-2,8-bis(3,4-dihydroxyphenyl)-6-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,7-dihydroxy-2 <i>H</i> -1-benzopyran-4-yl]-3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> -benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyrans-3,5,9-triol; 3'''-Deoxy, in D-10226	128114-96-5	1- <i>O</i> -Octadecanoyl-2- <i>O</i> -arachidonoyl- <i>sn</i> -glycero-3-phosphocholine, <i>see</i> O-10010
125555-67-1	Harveynone; (-)-form, in H-10004				
125583-30-4	α -D-Xylopyranosyl-(1 \rightarrow 4)- α -D-xylopyranosyl-(1 \rightarrow 6)-D-glucose, X-10013				
125622-12-0	Dactylocycline A, D-10001				
125622-13-1	Dactylocycline B, D-10002				
125708-07-8	Oliotorisin, in T-10177				
125990-20-7	Phyllofoliaspongine, in D-10136				
125990-21-8	Dehydrofoliaspongine, in D-10136				
125990-23-0	Phylloketal, in E-10064				
126005-92-3	Dregeoside C, in P-10138				
126026-42-4	Sabilactone, S-10001				
126054-77-1	Atractyloside A, in G-10132				
126054-78-2	Atractyloside B, in G-10132				
126054-79-3	Atractyloside C, in E-10218				
126054-80-6	Atractyloside D, in E-10218				
126054-81-7	Atractyloside E, in E-10218				
126054-82-8	Atractyloside F, in E-10218				
126054-83-9	Atractyloside G, in E-10222				
126054-84-0	Atractyloside H, in E-10222				
126054-85-1	Atractyloside I, in D-10160				
126054-89-5	Plucheol A, in E-10222				
126105-12-2	Siamenoside I, in C-10143				
126132-66-9	Mallotannin A, M-10008				
126192-35-6	Spiranthol A, in D-10104				
126192-36-7	Spiranthol B, in D-10104				
126192-37-8	Spirasineol A, S-10093				
126207-52-1	Luteolin; 4'- <i>O</i> - β -D-Glucopyranoside, 7- <i>O</i> - β -D-galacturonoside, in T-10052				
126209-82-3	Involucratine, I-10015				
126217-92-3	9-Hydroxy-4(15),11(13)-eudesmadien-12-oic acid; 9 β -form, Ac, in H-10139				
126223-28-7	Ginsenoside F ₄ , in D-10004				
126223-69-6	Hohenackerine, in N-10052				
126239-77-8	Regaloside H, R-10014				
126239-78-9	Regaloside I, in R-10014				
126240-17-3	12-Acetoxy-7- <i>O</i> -acetyl-11-hydroxypetuniasterone D, in P-10089				
126255-44-5	9-Acetoxy-5-hydroxy-4(15),11(13)-eudesmadien-12-oic acid, in D-10157				
126262-07-5	Antibiotic Y 05460MA, A-10104				
126311-05-5	2,4-Dimethyl-1 <i>H</i> -imidazole, <i>see</i> D-10276				
126394-59-0	Setaricin, in T-10140				
126394-91-0	Luteolin 7-(2-glucuronosyllactate), in T-10052				
126394-93-2	Luteolin 7-(2-glucosyllactate), in T-10052				
126394-95-4	Luteolin 7-lactate, in T-10052				
126415-33-6	11-Methyl-3-undecenolide, <i>see</i> M-10078				

128129-56-6	Phlorofucofuroeckol A, P-10099	129602-07-9	6,7-Epoxy-3,11,12-trihydroxy-9- eremophilin-8-one;	130932-29-5	10-(2,4-Dihydroxyphenyl)-2,8- bis(3,4-dihydroxyphenyl)- 3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> - benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyran- 3,5,9-triol; (2 <i>R</i> ,3 <i>R</i> ,8 <i>R</i> ,9 <i>S</i> ,10 <i>R</i>)- <i>form</i> , in D-10231
128197-56-8	1,4,6,8,9,14- Hexahydroxydihydro- β - agarofuran, <i>see</i> H-10054	129602-08-0	3,6,12,13-Tetrahydroxy-7(11),9- eremophiladien-8-one; (3 α ,6 ξ)- <i>form</i> , in T-10048	130932-31-9	10-(2,4-Dihydroxyphenyl)-2,8- bis(3,4-dihydroxyphenyl)- 3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> - benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyran- 3,5,9-triol; (2 <i>S</i> ,3 <i>R</i> ,8 <i>S</i> ,9 <i>R</i> ,10 <i>R</i>)- <i>form</i> , in D-10231
128240-71-1	Oxaunomycin; B, HCl, in O-10052	129602-09-1	3,11-Dihydroxy-7,9- eremophiladien-8-one; (3 α ,11 ξ)- <i>form</i> , in D-10153	129602-11-5	3,7-Dihydroxy-9,11- eremophiladien-8-one; (3 α ,7 α)- <i>form</i> , in D-10152
128255-09-4	Axillarine E, in D-10048	129602-17-1	Forbeside E1, in P-10141	130932-35-3	4-(2,4-Dihydroxyphenyl)-2,8- bis(3,4-dihydroxyphenyl)- 3,4,7,8-tetrahydro-2 <i>H</i> ,6 <i>H</i> - benzo[1,2- <i>b</i> :5,4- <i>b'</i>]dipyran-3,7- diol; (2 <i>S</i> ,3 <i>S</i> ,4 <i>R</i> ,7 <i>S</i> ,8 <i>S</i>)- <i>form</i> , 5- Hydroxy, in D-10227
128255-10-7	Axillarine C, in D-10048	129602-18-2	Forbeside E2, in P-10141	130932-37-5	4-(2,4-Dihydroxyphenyl)-2,8- bis(3,4-dihydroxyphenyl)- 3,4,7,8-tetrahydro-2 <i>H</i> ,6 <i>H</i> - benzo[1,2- <i>b</i> :5,4- <i>b'</i>]dipyran-3,7- diol; (2 <i>R</i> ,3 <i>S</i> ,4 <i>R</i> ,7 <i>R</i> ,8 <i>R</i>)- <i>form</i> , 5- Hydroxy, in D-10227
128255-11-8	Axillarine D, in D-10048	129602-19-3	Forbeside E3, in D-10245	130932-39-7	4-(2,4-Dihydroxyphenyl)-2,8- bis(3,4-dihydroxyphenyl)- 3,4,7,8-tetrahydro-2 <i>H</i> ,6 <i>H</i> - benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyran- 3,5,9-triol; (2 <i>R</i> ,3 <i>S</i> ,4 <i>R</i> ,8 <i>R</i> ,9 <i>R</i>)- <i>form</i> , in D-10229
128255-12-9	Axillarine F, in D-10048	129724-53-4	α -Agatoxin AG 488, A-10033	130932-41-1	4-(2,4-Dihydroxyphenyl)-2,8- bis(3,4-dihydroxyphenyl)- 3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> - benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyran- 3,5,9-triol; (2 <i>R</i> ,3 <i>S</i> ,4 <i>R</i> ,8 <i>R</i> ,9 <i>R</i>)- <i>form</i> , in D-10229
128286-67-9	11,12,16-Trihydroxy-8,11,13- abietatrien-20-oic acid, T-10126	129724-54-5	α -Agatoxin AG 504, in A-10033	130932-43-3	4-(2,4-Dihydroxyphenyl)-2,8- bis(3,4-dihydroxyphenyl)- 3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> - benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyran- 3,5,9-triol; (2 <i>S</i> ,3 <i>S</i> ,4 <i>R</i> ,8 <i>R</i> ,9 <i>R</i>)- <i>form</i> , in D-10229
128286-68-0	11,12,16-Trihydroxy-8,11,13- abietatrien-20-oic acid; Tri-Ac, Me ester, in T-10126	129761-12-2	Xeranthin, in H-10166	130932-45-5	4-(2,4-Dihydroxyphenyl)-2,8- bis(3,4-dihydroxyphenyl)- 3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> - benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyran- 3,5,9-triol; (2 <i>S</i> ,3 <i>S</i> ,4 <i>R</i> ,8 <i>R</i> ,9 <i>R</i>)- <i>form</i> , in D-10229
128308-96-3	Trifolint; 6'-O-[α -L- Rhamnopyranosyl-(1 \rightarrow 4)-3-O- acetyl- α -L-rhamnopyranoside], in T-10123	129784-28-7	Onioside, in H-10234	130932-51-3	4-(2,4-Dihydroxyphenyl)-2,8- bis(3,4-dihydroxyphenyl)- 3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> - benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyran- 3,5,9-triol; (2 <i>S</i> ,3 <i>S</i> ,4 <i>R</i> ,8 <i>S</i> ,9 <i>R</i>)- <i>form</i> , in D-10229
128321-90-4	Spiranthoquinone, S-10092	129825-26-9	Xestoaminol A, in A-10072	130980-39-1	11,12,13-Trihydroxy-9,15- octadecadienoic acid; (9 <i>Z</i> ,11 <i>R</i> ,12 <i>S</i> ,13 <i>S</i> ,15 <i>Z</i>)- <i>form</i> , Me ester, in T-10169
128321-91-5	Spiranthol C, S-10091	129825-27-0	Xestoaminol B, in A-10072	131086-64-1	Ajugachin A, in T-10122
128321-92-6	Spirasineol B, S-10094	129825-28-1	Xestoaminol C, in A-10073	131086-65-2	Ajugachin B, in T-10122
128385-39-7	1,4,6,8,9,14- Hexahydroxydihydro- β - agarofuran, <i>see</i> H-10054	129938-28-9	3,6,9-Heptadecatriene, <i>see</i> H-10020	131189-57-6	Cornuside, in S-10041
128439-50-9	<i>Aedes aegypti</i> Oostatic hormone A, O-10038	129938-55-2	25-Isoetioline, in E-10206	131213-10-0	Isocolorbicol; 9-(2,3- Epoxy-cinnamoyl), 2-butanoyl, 1-Ac, in T-10138
128508-19-0	γ -Harmine, M-10040	130014-50-5	Forbeside F, in T-10135	131391-65-6	<i>N</i> -Methylleukotriene C ₄ , in L-10046
128512-39-0	Kedarcidin, K-10009	130014-51-6	Forbeside G, in T-10135	131402-70-5	Mallorepanin, M-10007
128517-02-2	9-Demethylhomolycorine α - <i>N</i> - oxide, in H-10069	130062-45-2	Forbeside H, in T-10135	131405-85-1	Luteolin; 7- <i>O</i> -Di- α -L- rhamnopyranoside, in T-10052
128563-23-5	Fluvirucin B, <i>see</i> F-10013	130177-40-1	3,4-Didehydro- β , β -caroten-2-one, D-10060	131405-88-4	Genkwain; 4'- <i>O</i> - Glucosylrhamnoside, in D-10195
128574-84-5	Obeside D, in D-10122	130193-58-7	3,6,9-Heptadecatriene, <i>see</i> H-10020	131466-95-0	Scoparioside A, in C-10091
128646-05-9	Petroformyne 5, H-10061	130194-36-4	3,6,9-Heptadecatriene, <i>see</i> H-10020	131466-96-1	Scoparioside B, in C-10091
128646-22-0	Petroformyne A, in H-10238	130252-48-1	Epixanthochroa coumarate, in X-10003	131466-97-2	Scoparioside D, in C-10093
128646-24-2	Petroformyne B, in H-10214	130252-49-2	Xanthochroa coumarate, X-10003	131501-27-4	Scoparioside C, in C-10091
128700-86-7	Winkleriline, in N-10052	130263-09-1	<i>N</i> ¹ -Methoxy-19,20- dehydroervatamine, in E-10191	131530-16-0	3,4-Diaminobutanoic acid; (\pm)- <i>form</i> , in D-10044
128718-51-4	Piperolactam B, in A-10121	130263-13-7	Cyclodioside, in D-10194	131559-47-2	3-[4-Hydroxy-3-(4-hydroxy-3- methyl-2-butenyl)phenyl]-2- propenoic acid; (2 <i>E</i> ,2' <i>E</i>)- <i>form</i> , 4'-Ac, Me ester, in H-10163
128736-01-6	Acetylsaturejol, in S-10025	130342-69-7	Protopraesorediosic acid; (2 <i>R</i> ,3 <i>S</i>)- <i>form</i> , in P-10156	131571-28-3	Monellin, <i>see</i> M-10085
128823-57-4	4-Decenedioic acid; <i>E</i> - <i>form</i> , in D-10026	130342-70-0	Praesorediosic acid, in P-10156		
128988-58-9	Populin; 3- <i>O</i> -[α -L- Rhamnopyranosyl-(1 \rightarrow 2)- β -D- galactopyranoside], in P-10133	130369-84-5	Isotrichodiol, I-10056		
129085-29-6	Torosaol II, T-10096	130385-26-1	28-Heptatriaconten-2-one; (<i>Z</i>)- <i>form</i> , in H-10030		
129138-49-4	Scutamoinin, in T-10050	130430-92-1	<i>ent</i> -16 β ,17-Dihydroxy-19- kauranal, in K-10005		
129145-62-6	Galericulin, in T-10122	130453-08-6	Monellin, <i>see</i> M-10085		
129212-24-4	Torosaol I, T-10095	130733-27-6	Luteolin; 5- <i>O</i> -(6- <i>O</i> -Malonyl- β -D- glucopyranoside), in T-10052		
129216-76-8	Patellin 2, P-10014	130733-29-8	Genkwain; 5- <i>O</i> -(6- <i>O</i> -Malonyl- β - D-glucopyranoside), in D-10195		
129225-31-6	<i>N'</i> -(3-Aminopropyl)canavalmine, in C-10018	130756-32-0	Valparene, V-10006		
129225-32-7	<i>N'</i> -(4-Aminobutyl)canavalmine, in C-10018	130756-34-2	Valparone, in V-10014		
129314-38-1	Spinoflavanone B; (\pm)- <i>form</i> , in D-10141	130774-04-8	Bicolorine 14- <i>O</i> -acetate, in B-10021		
129314-39-2	Ovaliflavanone B; (\pm)- <i>form</i> , in H-10222	130774-09-3	2,3-Epoxy-15-valparene, in V-10006		
129350-09-0	<i>O</i> -Geranylconiferyl alcohol, in D-10243	130774-35-5	1,5-Dihydroxy-3-methoxy-2,4- diprenylxanthone, in T-10144		
129355-87-9	25-Hydroxy-33-methyl-6- pentatriacontanone, H-10188	130791-77-4	Huperzine A, <i>see</i> H-10074		
129355-88-0	25-Hydroxy-33-methyl-6- pentatriacontanone; 2,4- Dinitrophenylhydrazone, in H-10188	130897-51-7	1,8-Dihydroxy-10- methylacridone, in D-10107		
129369-34-2	3,22,24-Trihydroxy-12-oleanen- 29-oic acid; (3 β ,22 β)- <i>form</i> , 3- <i>O</i> - [α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D- glucuronopyranoside], in T-10172	130926-66-8	Isocolorbicol; 9-(2,3- Epoxy-cinnamoyl), 1,2-di-Ac, in T-10138		
129369-39-7	Forbeside J, in C-10090	130926-67-9	Isocolorbicol; 9-(2,3- Epoxy-cinnamoyl), 2-benzoyl, 1- Ac, in T-10138		
129369-40-0	Forbeside I, in C-10090	130926-71-5	3-Acetoxy-4',5,7-trihydroxy-6- methoxyflavanone, in P-10051		
129497-86-5	Euphorbin E, E-10231	130926-73-7	3,4',5,7-Tetrahydroxy-6- methoxyflavanone, in P-10051		
129578-06-9	Goniofufurone, G-10110	130932-27-3	10-(2,4-Dihydroxyphenyl)-2,8- bis(3,4-dihydroxyphenyl)- 3,4,9,10-tetrahydro-2 <i>H</i> ,8 <i>H</i> - benzo[1,2- <i>b</i> :3,4- <i>b'</i>]dipyran- 3,5,9-triol; (2 <i>R</i> ,3 <i>R</i> ,8 <i>R</i> ,9 <i>S</i> ,10 <i>S</i>)- <i>form</i> , in D-10231		
129587-09-3	Longilactone, L-10061				
129602-04-6	3,12-Dihydroxy-9,11(13)- eremophiladien-8-one; (3 α ,7 β H)- <i>form</i> , in D-10154				
129602-06-8	1,3-Dihydroxy-9,11- eremophiladien-8-one; (1 β ,3 α ,7 β H)- <i>form</i> , in D-10151				

131573-89-2	3-[4-Hydroxy-3-(4-hydroxy-3-methyl-2-butenyl)phenyl]-2-propenoic acid; (2 <i>E</i> ,2' <i>E</i>)-form, 4'-Me ether, Me ester, in H-10163	132536-78-8	1,2,6,8,9-Pentahydroxydihydro- β -agarofuran; (1 α ,2 α ,6 β ,8 α ,9 α)-form, 1,2,8,9-Tetra benzoyl, 6-Ac, in P-10046	134178-90-8	Asteriacerebroside C, A-10138
131574-98-6	1,4-Epidioxy-9,10-dihydroxy-2,11(13)-guaiaidien-12,6-olide; (1 α ,4 α ,5 α ,6 α ,9 α ,10 α)-form, 9-(3-Methylbutanoyl), in E-10027	132536-80-2	Angulatueoid G, in P-10046	134178-91-9	Asteriacerebroside D, A-10139
131574-99-7	1,4-Epidioxy-9,10-dihydroxy-2,11(13)-guaiaidien-12,6-olide; (1 α ,4 α ,5 α ,6 α ,9 α ,10 α)-form, 9-(2-Methylbutanoyl), in E-10027	132586-75-5	2',7-Dihydroxy-4'-methoxyflavone(3 \rightarrow 5')-2',7-dihydroxy-4'-methoxyisoflavan; (R)-form, in D-10196	134178-92-0	Asteriacerebroside E, A-10140
131615-26-4	3-[4-Hydroxy-3-(4-hydroxy-3-methyl-2-butenyl)phenyl]-2-propenoic acid; (2 <i>E</i> ,2' <i>E</i>)-form, Me ester, in H-10163	132625-00-4	Operculin V, O-10041	134178-93-1	Asteriacerebroside F, A-10141
131615-27-5	3-[4-Hydroxy-3-(4-hydroxy-3-methyl-2-butenyl)phenyl]-2-propenoic acid; (2 <i>Z</i> ,2' <i>E</i>)-form, Me ester, in H-10163	132625-01-5	Operculin VIII, O-10043	134250-13-8	Licoricesaponin J2, in D-10213
131616-49-4	3-[4-Hydroxy-3-(4-hydroxy-3-methyl-2-butenyl)phenyl]-2-propenoic acid; (2 <i>E</i> ,2' <i>Z</i>)-form, Me ester, in H-10163	132679-83-5	Trapanin B, T-10099	134313-74-9	Antibiotic L 671776, A-10100
131774-59-9	Sultriacin, S-10133	132741-68-5	Oxyline, in U-10020	134381-21-8	Epoxomicin, E-10030
131840-46-5	Phylloporin, P-10106	132831-02-8	Hemidine, in P-10139	134381-43-4	β -[(2-Amino-2-carboxylethyl)thio]-1 <i>H</i> -imidazole-4-propanoic acid, A-10060
131877-33-3	Chlorophylloporin, in P-10106	132833-56-8	6,9-Heptadecadiene, see H-10016	134394-72-2	17-Pentacosenoic acid; (Z)-form, in P-10027
131889-65-1	Obtusaside, O-10004	132833-58-0	6,9-Heptadecadiene, see H-10016	134476-89-4	Piperenol A, in H-10181
131889-82-2	Plicatin A, in D-10311	132842-33-2	Cerebronic acid, see H-10229	134476-90-7	Acetylpiiperenol A, in H-10181
131907-73-8	1- <i>O</i> -Hexadecyl-2- <i>O</i> -dihomogammalinolenoyl- <i>sn</i> -glycero-3-phosphocholine, H-10041	132864-75-6	Roburin A, in R-10038	134476-91-8	Piperenol B, in H-10180
131916-99-9	3(19),15-Valparadien-2-ol; 2 β -form, in V-10009	132886-10-3	Heleurine <i>N</i> -oxide, in H-10007	134615-37-5	Reveromycin A, R-10016
131985-13-2	Pisasteroside E, in C-10092	132899-06-0	6-Deoxyanhydrofusarubin, in A-10088	134822-46-1	Tuberosomonone, T-10209
131985-14-3	Pisasteroside F, in S-10120	132922-77-1	Cassipyronone 10-sulfate, in C-10030	134856-98-7	Eurylene, E-10236
131985-42-7	Pisasteroside D, in C-10092	132922-78-2	Cassipyronone, C-10030	134859-87-3	Sophoradiol; 3- <i>O</i> - β -D-Xylopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-(1 \rightarrow 2)- β -D-glucuronopyranoside], in O-10024
132043-65-3	Gibberellin A ₉ , in G-10029	132923-34-3	Cassipetaline, in T-10081	134869-15-1	Lactimidomycin, L-10016
132141-02-7	1,3-Dithiane; <i>trans</i> -1,3-Dioxide, in D-10298	132923-40-1	5-Hydroxy-9-dotriacontanone, H-10120	134876-18-9	Uvariamicin II, see U-10018
132160-49-7	Fangchinoline, see F-10001	132923-41-2	9-Hydroxy-3-hentriacontanone, H-10158	134958-55-7	Gancaonin T, G-10019
132185-21-8	Sachaliside 2, S-10002	132930-70-2	Amphidinol, A-10076	134981-78-5	Bastadin 12, B-10010
132185-68-3	Rabdocoetsin D, in E-10160	132971-63-2	Pradimicin M, P-10137	134985-04-9	Forbeside K, in E-10185
132185-69-4	Rabdocoetsin B, in E-10161	133019-98-4	Operculin VII, O-10042	134985-05-0	Forbeside L, in S-10122
132185-72-9	Patentine, in S-10046	133084-32-9	1-[Caffeoyloxy(carboxy)methoxy]-1 <i>H</i> -pyrrole-2,3,5-tricarboxylic acid, C-10010	135010-61-6	Pedicularioside A, in D-10235
132185-73-0	Trifolin; 2'- <i>O</i> - β -D-Apiofuranoside, 6'- <i>O</i> - α -L-rhamnopyranoside, in T-10123	133086-79-0	Pallidiflorin, in D-10183	135048-14-5	Arthroposide D, see A-10129
132185-75-2	3,3',5'-Trimethoxy-4',5':6,7-bis(methylenedioxy)flavone, in H-10026	133177-84-1	4,9-Hexadecadienoic acid; (Z,Z)-form, in H-10038	135077-05-3	Lagerstroemin†, L-10020
132186-53-9	Atyloside, in H-10056	133201-10-2	Lagerstannin C, L-10019	135091-04-2	Sophorasine A, S-10080
132186-54-0	3',4',5',6,7,8-Hexahydroxyflavone, H-10056	133269-18-8	Maocrystal G, in E-10123	135118-33-1	Triptogelin A10, in P-10046
132196-28-2	1- <i>O</i> -Hexadecyl-2- <i>O</i> -eicosapentaenoyl- <i>sn</i> -glycero-3-phosphocholine, H-10043	133336-95-5	Parvifolinic acid, P-10012	135118-34-2	Triptogelin A11, in P-10046
132210-64-1	Raspacoinin, R-10008	133410-67-0	6,9-Heptadecadiene; (6 <i>Z</i> ,9 <i>Z</i>)-form, in H-10016	135118-41-1	Triptogelin A5, in P-10046
132215-98-6	Stegobiene, S-10110	133462-15-4	Angulatueoid C, in T-10043	135118-42-2	Triptogelin A6, in P-10046
132242-26-3	11-Methoxyvincamajine, in V-10023	133530-17-3	6,26-Pentatriacontadien-2-one; (Z,Z)-form, in P-10066	135118-43-3	Triptogelin A7, in P-10046
132242-51-4	Rubioncolin A, R-10054	133530-18-4	8,26-Pentatriacontadien-2-one; (Z,Z)-form, in P-10067	135118-44-4	Triptogelin A8, in P-10046
132242-52-5	Rubioncolin C, R-10056	133530-19-5	6,27-Hexatriacontadien-2-one; (Z,Z)-form, in H-10064	135118-45-5	Triptogelin A9, in P-10046
132268-03-2	11-Methoxy-17- <i>epi</i> -vincamajine, in V-10023	133530-20-8	8,27-Hexatriacontadien-2-one; (Z,Z)-form, in H-10065	135153-78-5	Triptogelin B2, in T-10042
132268-06-5	Rubioncolin B, R-10055	133530-22-0	8,28-Heptatriacontadien-2-one; (Z,Z)-form, in H-10028	135213-47-7	Sophorasine B, in S-10080
132278-04-7	Helicoside, in P-10173	133538-68-8	4',5,5'-Trihydroxy-2',6-dimethoxyflavone, in P-10055	135257-48-6	Didemnaketal B, D-10063
132282-40-7	Ixerisoides B, in D-10175	133551-50-5	3,5-Dihydroxybenzoic acid; Ph ester, in D-10110	135257-49-7	Didemnaketal A, D-10062
132294-84-9	Trifolin; 2'- <i>O</i> - β -D-Apiofuranoside, in T-10123	133587-90-3	8,9-Epoxyergosta-5,22-diene-3,15-diol; (3 β ,8 ξ ,9 ξ ,15 ξ ,24 ξ)-form, in E-10081	135329-81-6	Xionenynic acid, in O-10012
132309-09-2	Uvariamicin I, U-10017	133733-92-3	Plucheoside C, in I-10048	135382-90-0	Calamanin C, C-10012
132309-10-5	Uvariamicin II, U-10018	133744-51-1	<i>N</i> ² -Methylfangchinoline, in F-10001	135384-00-8	4',7-Dihydroxy-8-prenylisoflavone, D-10248
132309-11-6	Uvariamicin III, U-10019	133806-59-4	Purpactin A, in P-10025	135417-17-3	1,10-Epoxyfuranoremoniphilane-6,9-diol; (1 β ,6 β ,9 β ,10 β)-form, 9-(2-Methylpropanoyl), in E-10086
132333-81-4	Operculinic acid F, in H-10160	133882-73-2	2',4'-Diacetylfazelin, in A-10030	135459-86-8	Schizanlignone B, S-10035
132333-82-5	Operculinic acid G, in H-10160	133883-63-3	10-Bromobutusalene, in O-10003	135463-05-7	Isonuomioside A, I-10039
132341-19-6	Ixerisoides A, in D-10175	133914-58-6	Cytorhadin X, C-10175	135493-52-6	<i>Anguilla japonica</i> Natriuretic factor, N-10009
132354-06-4	Steffimycin D, in S-10109	133921-57-0	10-Methoxy-1-heptadecene-4,6-diyne-3,9-diol, in H-10024	135545-73-2	Flosin B, in L-10020
132354-18-8	Demethylsteffimycin, in S-10109	133956-30-6	1-Pentatriaconten-17-ol, P-10072	135545-88-9	Periandrulcin A, in T-10174
132396-81-7	Polycarponoside A, in O-10022	133956-31-7	34-Hydroxy-8-methyl-5-heptatriacontanone, H-10186	135545-89-0	Periandrulcin B, in D-10207
132435-40-6	Huperzine A, see H-10074	133956-32-8	1-Pentatriaconten-17-ol, see P-10072	135545-90-3	Periandrulcin C, in D-10208
		133956-33-9	34-Hydroxy-8-methyl-5-heptatriacontanone; Ac, in H-10186	135546-08-6	Linariifolioside, in T-10052
		134151-40-9	1,9-Epoxy-1,3,5,10-bisabolatetraen-12-ol, E-10033	135557-67-4	Schizanlignone A, in S-10035
		134176-73-1	Prostratin B, P-10155	135618-15-4	2'- <i>O</i> -Acetylfazelin, in A-10030
		134178-88-4	Asteriacerebroside A, A-10136	135618-16-5	3'- <i>O</i> -Acetylfazelin, in A-10030
		134178-89-5	Asteriacerebroside B, A-10137	135618-17-6	4'- <i>O</i> -Acetylfazelin, in A-10030
				135626-18-5	6-Hydroxyboschnaloside; 6 β -form, in H-10091
				135649-96-6	Luteolin; 7- <i>O</i> -[6- <i>O</i> -Acetylallosyl-(1 \rightarrow 2)- β -D-glucopyranoside], in T-10052
				135683-58-8	Tessellate, T-10020
				0-00-00 \blacktriangleright 0000	
				135729-36-1	Triacantanonic acid; Hentriacontyl ester, in T-10100
				135863-69-3	Podoscypic acid, in D-10293
				135863-70-6	Podoscypic acid; Et ester, in D-10293
				135867-75-3	Pneumocandin A ₂ , in P-10125
				135886-54-3	Chelviolene A, C-10067
				135905-48-5	Piscerythrol, P-10122
				135905-50-9	Lupinol A, L-10086
				135905-53-2	Lupinol C, L-10087
				135938-72-6	Lupinol B, in L-10086

135995-68-5	Zervamicin ZL, Z-10003	137428-64-9	Fluvirucin B ₁ , in F-10013	139006-28-3	Amorphispironone, A-10074
136027-12-8	7-Hydroxy-2',3',4'-trimethoxyisoflavan, in T-10054	137453-21-5	Multiflorine N-oxide, in M-10092	139026-32-7	Mzikonol, M-10097
136087-29-1	2',3',4',7-Tetrahydroxyisoflavan; (<i>R</i>)-form, 3',4'-Di-Me ether, 7- <i>O</i> -β-D-glucopyranoside, in T-10054	137476-73-4	Cyclo(alanylalanylvaltyltyrosylglycylglycyl), C-10155	139051-14-2	7-Caffeoylloganin, in L-10059
136112-79-3	Salvianolic acid G, S-10005	137490-45-0	Roburin C, in R-10038	139112-20-2	10-Hydroxymethylsparteine, H-10190
136173-25-6	Sarranicine, in S-10023	137534-96-4	Diapause hormone, D-10049	139163-15-8	Uralenol, P-10060
136173-26-7	Neosarranicine, in S-10023	137551-38-3	Poricoic acid A, P-10134	139163-16-9	Neouralenol, P-10061
136173-27-8	Neosarranicine, in S-10023	137553-09-4	Cyclicodiscic acid; 3- <i>O</i> -[α-L-Arabinopyranosyl-(1→3)-β-D-glucopyranoside], in D-10194	139163-34-1	Ginsenoyno A, in H-10022
136173-28-9	Triangularicine, in T-10104	137625-92-4	9-[(2-Amino-2-carboxyethyl)thio]-10-hydroxy-3,5,7-tetradecatrienedioic acid, see A-10059	139237-67-5	Cerebronic acid; (±)-form, in H-10229
136173-29-0	Neotriangularicine, in T-10104	137627-61-3	3-Iodo-2-propenoic acid; (<i>Z</i>)-form, Amide, in I-10017	139328-79-3	6,9,12-Pentadecatrien-2-one; (6 <i>Z</i> ,9 <i>Z</i> ,12 <i>Z</i>)-form, in P-10033
136196-65-1	Esquirolin C, in I-10045	137647-92-8	Pseudoaxinellin, P-10159	139360-95-5	2-(Ethoxymethyl)-1,3-dihydroxy-5-methoxyanthraquinone, in T-10152
136196-66-2	Esquirolin D, E-10197	137681-56-2	Zaragozic acid C, Z-10002	139446-71-2	Ranakinin, R-10004
136199-93-4	Roburin D, in R-10038	137739-74-3	9-Methoxycanthin-6-one N ³ -oxide, in H-10092	139477-52-4	Dihydro-5-(1-octenyl)-2(3 <i>H</i>)-furanone; (<i>R,Z</i>)-form, in D-10099
136208-91-8	12,13-Epoxy-9,10-trichodien-11-ol, in I-10056	137739-75-4	9-Hydroxycanthin-6-one N ³ -oxide, in H-10092	139477-53-5	Dihydro-5-(1-octenyl)-2(3 <i>H</i>)-furanone, see D-10099
136396-56-0	13α-Tigloyloxy-multiflorine, in M-10092	137740-06-8	Triptogelin E1, in T-10138	139552-97-9	Cyclooctatin, C-10169
136464-82-9	2,4-Dimethyl-2,4-hexadien-1-ol; (<i>E,E</i>)-form, Aldehyde, 2,4-dinitrophenylhydrazone, in D-10275	137740-07-9	Triptogelin E2, in T-10138	139644-20-5	Leoheterin, in E-10067
136466-02-9	Konbanamide, K-10016	137740-08-0	Triptogelin E3, in T-10138	139682-13-6	Scandomelidine, S-10031
136765-16-7	Quartromicin D ₃ , see Q-10002	137740-09-1	Triptogelin E4, in T-10138	139682-14-7	Crotarammin; (<i>S</i>)-form, in D-10246
136765-17-8	Quartromicin D ₃ , see Q-10002	137767-97-6	4-Deoxyasbestinin A, in A-10130	139742-08-8	Longilene peroxide, L-10062
136765-18-9	Quartromicin D ₃ , see Q-10002	137767-98-7	11-Acetoxy-4-deoxyasbestinin B, in A-10130	139742-20-4	Syringin methyl ether, in S-10065
136765-20-3	Quartromicin A ₂ , in Q-10002	138145-52-5	Efrapeptin A, E-10006	139751-06-7	Radpetine, R-10002
136765-21-4	Quartromicin A ₃ , in Q-10002	138145-53-6	Efrapeptin B, E-10007	139889-55-7	3,5,5'-Trihydroxy-3',4',6,7-tetramethoxyflavone, in H-10026
136778-39-7	Epigonioufufurone, in G-10110	138195-66-1	1,1',8,8'-Tetrahydroxy-3,3'-dimethyl-4,7'-bianthracene-9,9',10(10' <i>H</i>)-trione; 10' <i>R-C</i> -β-D-Xylopyranoside, in T-10045	139889-56-8	3,5,5',7-Tetrahydroxy-3',4',6-trimethoxyflavone, in H-10026
136803-86-6	Forbeside D, in C-10089	138195-68-3	1,1',8,8'-Tetrahydroxy-3,3'-dimethyl-4,7'-bianthracene-9,9',10(10' <i>H</i>)-trione; 10' <i>C</i> -(6-Deoxy-β-D-glucopyranoside), in T-10045	139906-02-8	5-Hydroxy-3'-methoxysativan, in P-10057
136832-03-6	Parvifolioside, in E-10119	138213-68-0	1,1',8,8'-Tetrahydroxy-3,3'-dimethyl-4,7'-bianthracene-9,9',10(10' <i>H</i>)-trione; 10' <i>C</i> -α-L-Rhamnopyranosyl, in T-10045	139934-62-6	Methyl 2,3,6-trihydroxy-3,4-methylenedioxybenzoate, in P-10039
136997-68-7	Sophoraflavanone H, S-10078	138213-69-1	1,1',8,8'-Tetrahydroxy-3,3'-dimethyl-4,7'-bianthracene-9,9',10(10' <i>H</i>)-trione; 10' <i>C</i> -(6-Deoxy-β-D-gulopyranoside), in T-10045	139934-64-8	2',4',6'-Trihydroxyacetophenone; 4'-Me ether, 2'- <i>O</i> -rutinoside, in T-10129
136997-70-1	Sophoraflavanone J, S-10079	138256-93-6	Camelliatannin A, in S-10114	139953-23-4	Pelatonone A, T-10162
137019-45-5	Fluvirucin B ₄ , in F-10013	138256-96-9	1,1',8,8'-Tetrahydroxy-3,3'-dimethyl-4,7'-bianthracene-9,9',10(10' <i>H</i>)-trione; 10' <i>C</i> -α-L-Arabinopyranosyl, in T-10045	139955-89-8	Roserine, R-10046
137031-53-9	Soladulcoside A, in T-10191	138258-91-0	Cyanoginosin AR, in C-10150	139955-90-1	Vasconine, V-10016
137031-54-0	Ponganone I, P-10131	138264-51-4	Helioporin D, H-10009	139959-71-0	Folipastatin, F-10014
137031-55-1	Ponganone II, P-10132	138264-53-6	Helioporin F, in H-10009	140163-36-6	16-Tricosenoic acid; (<i>Z</i>)-form, in T-10114
137038-72-3	Soladulcoside B, in D-10253	138264-54-7	Helioporin G, in H-10009	140163-37-7	17-Tricosenoic acid; (<i>Z</i>)-form, in T-10115
137052-51-8	6-Acetoxylinoleic acid, in H-10197	138282-15-2	18-Pentacosenoic acid; (<i>Z</i>)-form, in P-10028	140163-38-8	18-Tricosenoic acid; (<i>Z</i>)-form, in T-10116
137100-72-2	2,3,4-Trihydroxypregnan-16-one; (2β,3β,4β)-form, in T-10187	138282-15-2	2-Hydroxy-3-(sulfoxy)propyl-5-deoxy-5-(trimethylarsonio)-β-D-ribofuranoside, H-10228	140163-39-9	16-Pentacosenoic acid; (<i>Z</i>)-form, in P-10026
137120-14-0	Fluvirucin B ₅ , in F-10013	138258-91-0	Complanatin, C-10120	140163-40-2	19-Pentacosenoic acid; (<i>Z</i>)-form, in P-10029
137120-28-6	Antibiotic Sch 38518, in F-10013	138264-51-4	9-Hydroxycanthin-6-one, H-10092	140163-41-3	21-Octacosenoic acid; (<i>Z</i>)-form, in O-10006
137120-29-7	Fluvirucin B ₃ , in F-10013	138264-53-6	Erythrodiene, E-10193	140163-47-9	17-Tricosenal; (<i>Z</i>)-form, in T-10113
137138-03-5	5'-Deoxy-5'-(dimethylarsinyl)adenosine, D-10039	138264-54-7	4,4'-Diaminodibutylamine, see D-10045	140163-48-0	19-Pentacosenal, in P-10029
137166-36-0	Scutellaprostin A, S-10037	138282-15-2	8-Hydroxy-1-vinyl-β-carboline, H-10244	140163-49-1	19-Hexacosenal; (<i>Z</i>)-form, in H-10037
137182-25-3	Fulicin, F-10025	138282-73-7	Huangquioside E, in P-10050	140165-43-1	Pathylactone A, P-10015
137196-25-9	Polysyphorin, P-10130	138505-45-0	5,6,6α,14α-Tetrahydro-5,6-dihydroxy-3,10-bis(2-phenylethyl)-1 <i>H</i> ,12 <i>H</i> -[1]benzopyrano[7,6- <i>b</i>]pyrano[3,2- <i>ff</i>][1,4]benzodioxin-1,12-dione, T-10026	140187-26-4	Macrophyllsided†, in D-10164
137196-27-1	Polysyphorin, see P-10130	138544-91-9	Rosaacoreol, A-10023	140197-98-4	20-Heptacosenoic acid; (<i>Z</i>)-form, in H-10015
137217-83-5	7- <i>O</i> -Methylisomucronulatol, in T-10054	138613-24-8	Neohuangquioside E, in P-10050	140208-77-1	Gnetifolin F, G-10103
137217-84-6	2',3',4',7-Tetrahydroxyisoflavan; (<i>R</i>)-form, 3',4'-Di-Me ether, 2',7-di- <i>O</i> -β-D-glucopyranoside, in T-10054	138656-54-9	Benastatin A, B-10011	140245-63-2	9-Furanomexican-8-one, in E-10145
137217-85-7	2',5',7-Trihydroxy-3',4'-dimethoxyisoflavan 2',5-di- <i>O</i> -β-D-glucopyranoside, in P-10057	138683-69-9	Benastatin B, in B-10011	140245-64-3	9,10-Epoxy-8-furanomexicanone, in E-10145
137217-88-0	Erythbigenin, in P-10048	138822-69-2	Benastatin B, in B-10011	140245-65-4	Virgauride, see V-10026
137231-84-6	Scutellaprostin B, in S-10037	138822-70-5	RA-VIII, R-10010	140245-68-7	Virgauride, V-10026
137231-85-7	Scutellaprostin C, in S-10037	138867-22-8		140245-76-7	23-Methyl-5,9-tetracosadienoic acid; (<i>Z,Z</i>)-form, in M-10072
137231-86-8	Scutellaprostin D, S-10038	138968-85-1		140366-14-9	3-Hydroxycycloartan-26,23-olide; (3α,23 <i>R</i> ,25 <i>R</i>)-form, in H-10104
137231-87-9	Scutellaprostin E, in S-10038	138968-86-2		140366-46-7	6-Glucopyranosyl-8-xylopyranosylchrysoeriol, in L-10067
137231-88-0	Scutellaprostin F, in S-10038	138994-83-9		140367-82-4	Dioncophylline B, D-10290
137293-41-5	Sculponeatin D, S-10036			140369-33-1	Teupernin D†, in C-10077
137319-13-2	Osmantolide, in B-10013				
137319-37-0	Euchretin D, E-10207				
137319-38-1	Euchretin E, E-10208				
137319-39-2	Tricuspidatol A, T-10117				
137319-48-3	Lagotoside, L-10021				
137343-79-4	Roburin E, R-10039				
137370-65-1	Roburin B, R-10038				
137371-86-9	Davuricin T ₁ , D-10023				
137419-51-3	4-Deoxyasbestinin C, in A-10130				
137419-52-4	11-Acetoxy-4-deoxyasbestinin D, in A-10130				
137422-97-0	Woodfordin D, W-10006				
137422-98-1	Oenothain A, in W-10006				

140388-67-6	3-Hydroxycycloartan-26,23-olide, <i>see</i> H-10104	142561-45-3	Luteolin; Continued- <i>form</i> , 7- <i>O</i> -[β -D-Galactopyranosyl-(1 \rightarrow 6)- β -D-galactopyranoside], <i>in</i> T-10052	142937-46-0	Chemochinenoside A, C-10073
140388-69-8	2,4-Diglycosyl-1-hydroxy-3,6,7-trimethoxyxanthone, <i>in</i> D-10090	142570-03-4	Gomojoside F, <i>in</i> L-10011	142937-47-1	Triptoquinonal, <i>in</i> H-10079
140395-71-7	Antibiotic BMY 42448, A-10099	142609-20-9	Pergilone, P-10080	142937-48-2	Triptoquinol, H-10079
140475-71-4	Deacetylamijecticyol, <i>in</i> D-10304	142609-22-1	Delphiperegriene, D-10034	142937-49-3	Triptoquinondiol, <i>in</i> D-10105
140484-68-0	2,4-Dihydroxybenzaldehyde; 4-Me ether, 2- <i>O</i> -[β -D-xylopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], <i>in</i> D-10109	142628-30-6	Okanin; 4'- <i>O</i> -(6- <i>O</i> -Acetyl-2- <i>O</i> -caffeoyl- β -D-glucopyranoside), <i>in</i> P-10040	142937-50-6	Triptoquinone B, <i>in</i> D-10105
140626-94-4	Matlystatin A, M-10019	142628-31-7	Okanin; 4'- <i>O</i> -(2- <i>O</i> -Caffeoyl-6- <i>O</i> - <i>p</i> -coumaroyl- β -D-glucopyranoside), <i>in</i> P-10040	142942-84-5	Biondinin A, B-10024
140638-25-1	Matlystatin F, M-10023	142628-32-8	Okanin; 4'-Me ether, 4- <i>O</i> -(6- <i>O</i> -coumaroyl- β -D-glucopyranoside), <i>in</i> P-10040	142942-92-5	Randioli, T-10077
140638-26-2	Matlystatin E, M-10022	142628-33-9	Okanin; 4-Me ether, 4'- <i>O</i> -(6- <i>O</i> -acetyl- β -D-glucopyranoside), <i>in</i> P-10040	142950-85-4	3-Methoxycycloart-23-ene-25,26-diol, <i>in</i> C-10163
140667-42-1	Matlystatin D, M-10021	142628-34-0	Okanin; 4'-Me ether, 4- <i>O</i> -(6- <i>O</i> -acetyl-2- <i>O</i> -caffeoyl- β -D-glucopyranoside), <i>in</i> P-10040	142950-86-5	Triptoquinonoic acid A, T-10203
140670-85-5	Montbretol 12-methyl ether, <i>in</i> M-10088	142628-53-3	Macrocarpal G, <i>see</i> M-10002	142998-21-8	Fraxiformoside, F-10019
140670-88-8	Calodenone, <i>in</i> L-10064	142628-54-4	Macrocarpal D, M-10001	143015-86-5	1,4-Epidioxy-9,10-dihydroxy-2,11(13)-guaidien-12,6-olide; (1 α ,4 α ,5 α ,6 α ,9 α ,10 α)- <i>form</i> , 9-(2-Methylpropanoyl), <i>in</i> E-10027
140679-93-2	RA-IX, R-10003	142631-50-3	Suavioside E, <i>in</i> K-10005	143049-05-2	3,12,14-Clerodatrien-18- <i>oic</i> acid; (<i>ent</i> -5 α ,12 <i>E</i>)- <i>form</i> , <i>in</i> C-10104
140679-94-3	RA-X, R-10011	142674-53-1	Phyllanthusiin E, P-10105	143049-06-3	3,13(16),14-Clerodatrien-18- <i>oic</i> acid; (<i>ent</i> -5 α)- <i>form</i> , <i>in</i> C-10105
140681-83-0	Antibiotic NK 155141, <i>in</i> B-10005	142717-67-7	Cohirsitinine, C-10114	143049-07-4	3,12,14-Clerodatrien-18- <i>oic</i> acid; (<i>ent</i> -5 α ,12 <i>Z</i>)- <i>form</i> , <i>in</i> C-10104
140709-02-0	3-Hydroxycycloart-24-en-26,23-olide, <i>in</i> H-10104	142735-24-8	Coryphine, C-10129	143049-08-5	3,13(16),14-Clerodatrien-18- <i>oic</i> acid; (<i>ent</i> -5 α)- <i>form</i> , Me ester, <i>in</i> C-10105
140848-75-5	Maackiaflavanol, D-10247	142735-70-4	Thalimonine, T-10083	143050-11-7	Hemidesmin 1, H-10012
140850-99-3	RA-X, <i>see</i> R-10011	142741-24-0	Conophylline, C-10121	143050-12-8	Hemidesmin 2, H-10013
140923-32-6	Matlystatin B, M-10020	142741-29-5	8,9-Dimethoxygeibalansine, D-10266	143052-16-8	Lapidilectine B, L-10026
140923-35-9	Montbretol, M-10088	142741-30-8	Isochelidonine, I-10025	143062-44-6	1,4-Epidioxy-9,10-dihydroxy-2,11(13)-guaidien-12,6-olide; (1 α ,4 α ,5 α ,6 α ,9 α ,10 α)- <i>form</i> , 9-Angeloyl, <i>in</i> E-10027
141044-51-1	Ustiloxin, U-10015	142750-27-4	1-(2-Oxo-5-pyrrolidinyl)-5-hydroxy-3-methyl-3-pyrrolin-2-one, O-10062	143070-05-7	Cynoterpene, <i>in</i> H-10242
141073-88-3	Pyoverdin Pf12-IA, <i>in</i> P-10176	142750-29-6	11-[10-(11-Methoxy-17- <i>epi</i> -vincamajinyl)]vincorine, <i>in</i> M-10041	143070-42-2	Lapidilectine A, L-10025
141073-89-4	Pyoverdin Pf12-IB, <i>in</i> P-10176	142750-30-9	11-[10-(11-Methoxyvincamedinyl)]vincorine, <i>in</i> M-10041	143070-43-3	Chlorophyllonic acid a; Me ester, <i>in</i> C-10085
141073-90-7	Pyoverdin Pf12-IIB, <i>in</i> P-10176	142750-31-0	Undulifoline, U-10009	143085-86-3	Aurantiamine, A-10143
141095-99-0	Pyoverdin Pf12-IIA, <i>in</i> P-10176	142755-07-5	Eudistalbin A, E-10223	143086-29-7	Cyboechinulin, C-10168
141262-39-7	Sorgalactone, S-10082	142755-08-6	Eudistalbin B, E-10224	143114-79-8	Ebeietonine, E-10001
141318-80-1	3,4-Diaminobutanoic acid; (<i>S</i>)- <i>form</i> , B,2HCl, <i>in</i> D-10044	142784-23-4	3,3'-Dihydroxychalcone; (<i>E</i>)- <i>form</i> , <i>in</i> D-10126	143114-83-4	Obesine, O-10002
141443-39-2	Antibiotic AB 023A, <i>in</i> A-10097	142795-96-8	11-[10-(11-Methoxyvincamajinyl)]vincorine, M-10041	143114-89-0	Oxypterine, O-10066
141443-40-5	Antibiotic AB 023B, <i>in</i> A-10097	142808-38-6	Apiodionene, A-10106	143183-67-9	Epoxychromodine, <i>in</i> D-10084
141446-96-0	1-Alaninechlamydocin, A-10038	142846-97-7	6 α -Hydroxyeurycomalactone, <i>in</i> E-10232	143257-71-0	8-Hydroxy-9-methoxycanthin-6-one, H-10174
141544-37-8	Narciclasine 4- <i>O</i> -glucoside, <i>in</i> N-10004	142847-28-7	Stellin C, S-10111	143346-97-8	Miyakolide, M-10083
141620-04-4	1,1'-[1,11-Decanediy]bis(oxy)]bisbenzene, <i>in</i> U-10007	142861-01-6	Talassamine, T-10001	143381-65-1	5-Acetyl-2,3-dihydro-3,6-dihydroxy-2-isopropenylbenzofuran; (2 <i>S</i> ,3 <i>S</i>)- <i>form</i> , <i>in</i> A-10016
141620-05-5	1,1'-[1,13-Tridecanediy]bis(oxy)]bisbenzene, <i>in</i> T-10118	142861-10-7	Talassimine, <i>in</i> T-10001	143437-61-0	Oryzalexin S, <i>in</i> S-10113
141731-75-1	Antibiotic NG 011, A-10102	142861-11-8	Talassimidine, <i>in</i> T-10001	143438-96-4	Glycozolicine, <i>in</i> H-10179
141731-76-2	Antibiotic NG 012, <i>in</i> A-10102	142864-29-7	6-(1-Propenyl)-1,4-cycloheptadiene; (<i>S</i>)-(<i>Z</i>)- <i>form</i> , <i>in</i> P-10152	143520-76-7	4-(1,3-Hexadienyl)-1-cyclopentene; (1' <i>E</i> ,3' <i>Z</i>)- <i>form</i> , <i>in</i> H-10047
141736-93-8	Taxifolin; (2 <i>R</i> ,3 <i>R</i>)- <i>form</i> , 3- <i>O</i> -[β -D-Galactopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside], <i>in</i> P-10050	142878-30-6	Salpantol, <i>in</i> H-10182	143520-77-8	4-(1,3-Hexadienyl)-1-cyclopentene; (1' <i>E</i> ,3' <i>E</i>)- <i>form</i> , <i>in</i> H-10047
141794-49-2	Russuphelin A, R-10061	142878-31-7	4,5,7-Trihydroxy-8-formyl-6-methylflavan, <i>see</i> T-10148	143553-00-8	7-Hydroxy-2-(hydroxymethyl)-5-methyl-4 <i>H</i> -1-benzopyran-4-one, H-10164
141869-53-6	Pradimicin Q, <i>in</i> P-10137	142878-32-8	1,6-Dihydroxy-2-methoxyanthraquinone, <i>in</i> T-10131	143572-66-1	Cronupapine, C-10133
141946-48-7	3-Hydroxycycloart-24-en-23-one, H-10105	142878-33-9	1,6-Dihydroxy-2,4-dimethoxyanthraquinone, <i>in</i> T-10037	143572-81-0	Giganenin, G-10033
141968-27-6	Shaagrockol C, S-10056	142902-27-0	Frachinoside, F-10017	143592-21-6	Metachromin D, M-10032
141973-36-6	Hericenone G, H-10034	142905-20-2	Aldoxoside, A-10040	143592-22-7	Metachromin E, M-10033
141973-37-7	Hericenone H, H-10035	142905-22-4	Stephadione, S-10115	143592-23-8	Metachromin F, M-10034
141996-36-3	Hericenone F, H-10033	142905-25-7	Stemoamide, S-10112	143592-24-9	Metachromin G, M-10035
142035-43-6	1,4-Epoxy-8,10,13-trihydroxy-1,5,7(11)-germacatrien-12,6-olide; (4 β ,5 <i>E</i> ,8 α ,10 α)- <i>form</i> , 8-Tigloyl, 13-Ac, <i>in</i> E-10159	142905-26-8	Tuberositemosipronine, T-10210	143592-25-0	Metachromin H, M-10036
142182-54-5	Rubilactone, <i>in</i> H-10210	142905-39-3	2'-Geranyloxy-4',6'-dihydroxyacetophenone, <i>in</i> T-10129	143601-07-4	Acuminatin†, <i>in</i> C-10099
142185-85-1	CTX 3, <i>in</i> C-10097	142905-40-6	4'-Geranyloxy-2',6'-dihydroxyacetophenone, <i>in</i> T-10129	143615-93-4	3-Butyl-4-vinylcyclopentene, <i>in</i> B-10053
142287-93-2	Anomoline, <i>in</i> A-10090	142905-41-7	4'-(Geranyloxy)-2,2',6'-trihydroxyacetophenone, <i>in</i> T-10035	143617-02-1	Teupolioside, T-10080
142309-47-5	Convulvulanic acid A, <i>in</i> C-10124	142934-41-6	Isogambirine, I-10032	143621-75-4	Lituarine A, <i>in</i> L-10057
142309-48-6	Convulvulol, C-10124	142937-29-9	Crenulatin†, C-10131	143621-76-5	Lituarine B, <i>in</i> L-10057
142309-49-7	Convulvolopyrone, C-10125			143621-77-6	Lituarine C, L-10057
142382-45-4	Cycloviracin B ₁ , C-10172			143651-45-0	Benarthin, <i>in</i> A-10117
142382-46-5	Cycloviracin B ₂ , <i>in</i> C-10172			143724-79-2	3,4',5,7-Tetrahydroxy-6-(3-hydroxy-3-methylbutyl)flavone, <i>in</i> T-10067
142449-71-6	Ginsenoine F, <i>in</i> H-10022			143728-97-6	Cochinmicin I, C-10112
142465-54-1	Ginsenoine H, <i>in</i> H-10017			143728-98-7	Cochinmicin I, <i>see</i> C-10112
142465-71-2	Rabdokaurin B, <i>in</i> R-10001			143728-99-8	Cochinmicin III, <i>in</i> C-10112
142474-53-1	Glyasperin C, <i>in</i> T-10068			143903-06-4	Antibiotic CH 47918, A-10103
142474-61-1	Isoannoreticuin, I-10022			143966-09-0	10-Acetoxy-8-heptadecene-4,6-diyn-3-ol, <i>in</i> H-10023
142474-75-7	Taxifolial A, T-10011				
142474-76-8	Taxifolial B, T-10012				
142474-78-0	Taxifolial C, T-10013				
142474-79-1	Taxifolial D, <i>in</i> D-10282				
142488-56-0	Annooreticuin, A-10091				
142507-24-2	Arthropolide D, <i>see</i> A-10129				
142561-10-2	Glyasperin D, <i>in</i> T-10068				

143966-10-3	1,8,10-Heptadecatriene-4,6-diyne-3,12-diol; (<i>all-E</i>)-form, in H-10021	144470-22-4	Enniatin E, E-10020	145223-63-8	15-Hydroxy-1,3-friedelanedione; 15 α -form, in H-10146
144027-75-8	Cymbinodin B, in T-10065	144476-63-1	Cycloarthropsadiol C, C-10166	145223-65-0	24,28-Epoxyergost-5-ene-3,7-diol, in E-10174
144027-78-1	Resinoside B, in R-10015	144525-15-5	Piperoctadecalidine, in O-10011		
144027-79-2	Resinoside A, R-10015	144525-20-2	Psiadin, in K-10008	145223-66-1	Ergost-5-ene-3,7,24,28-tetrol; (3 β ,7 α ,24 ξ)-form, in E-10186
144049-68-3	5-Hydroxy-7-methoxy-2-tritriacontyl-4H-1-benzopyran-4-one, in D-10256	144539-80-0	Arthropsatriol A, A-10127	145237-03-2	Venulusone, V-10019
144049-71-8	Acosepticine, in A-10025	144539-81-1	Arthropsolide C, in A-10129	145237-04-3	Xestamine, X-10005
144049-79-6	Torosafflavone D, T-10094	144540-59-0	Arthropsatriol C, A-10128	145237-07-6	Acutifolin, A-10026
144049-81-0	Laxifolin, L-10037	144587-02-0	Cumingianoside C, in C-10146	145237-08-7	Acutifolidin, in A-10026
144049-82-1	Isolaxifolin, I-10035	144587-03-1	Cumingianoside B, C-10146	145237-09-8	Neoacutifolin, N-10011
144049-86-5	Torosafflavone C, T-10093	144587-04-2	Cumingianoside E, in C-10147	145237-20-3	Pipereicosalidine, in E-10010
144074-85-1	6-O-Acetylacosepticine, in A-10025	144587-05-3	Cumingianoside F, C-10147	145237-20-3	Roshenin E, R-10049
144101-92-8	Stykenol A, in H-10219	144587-06-4	Cumindioside B, C-10145	145274-72-2	Roshenin D, R-10048
144101-94-0	3-Hydroxy-1,4,6,10-phytatetraen-13-one, in H-10219	144587-55-3	Melemeleone A, M-10027	145274-73-3	Malabathrin D, in N-10035
144106-84-3	1,3,15-Valparatriene, V-10012	144587-56-4	Melemeleone B, M-10028	145274-77-7	Incarvilline, I-10006
144106-85-4	1,5-Valparadien-3-ol; 3 β -form, in V-10007	144597-20-6	Ecuadorin, E-10005	145307-22-8	Punctanecine, see P-10172
144106-86-5	2,15-Valparadien-1-ol; 1 β -form, in V-10008	144606-10-0	Arthropsolide A, in A-10129	145307-23-9	Spiroveitchionolide, S-10103
144106-88-7	2,13-Valparadiene, V-10005	144608-17-3	Cumingianoside A, in C-10146	145356-49-6	Glyasperin F, G-10096
144154-70-1	3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)-11-hopene; (3 β ,32R,33R,34S)-form, in M-10076	144608-18-4	Cumingianoside D, in C-10146	145382-61-2	Glyasperin G, G-10097
144154-71-2	3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)-6,11-hopadiene; (3 β ,32R,33R,34S)-form, in M-10073	144608-19-5	Cumindioside A, C-10144	145382-62-3	Glyasperin H, G-10098
144161-44-4	Decastrictine J, D-10025	144629-88-9	22-Hydroxy-3,21-dioxo-29-nor-24-friedelanol acid; 22 β -form, Me ester, in H-10118	145382-63-4	Glyasperin I, in T-10068
144177-33-3	1,5-Valparadien-3-ol; 3 α -form, in V-10007	144678-18-2	1,2-Epoxy-8-hydroxy-6-(hydroxymethyl)-1-methoxycarbonylxanthone, E-10110	145382-64-5	Glyasperin J, G-10099
144179-04-4	3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)hopane; (3 β ,32R,33R,34S)-form, in M-10074	144686-41-9	Ergosta-16,20(22)-dien-3-ol; (3 β ,24 ξ)-form, in E-10175	145382-77-0	2-(3-Chloro-1,3-dimethylcyclohexyl)-5-methylphenol, C-10074
144179-05-5	3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)hopane; (3 β ,32R,33R,34R)-form, in M-10074	144686-42-0	Ergosta-17(20),22-dien-3-ol; (3 β ,24 ξ)-form, in E-10176	145382-78-1	2-(4-Chloro-1,3-dimethylcyclohexyl)-5-methylphenol, C-10075
144179-06-6	29-(2,3,4,5-Tetrahydroxypentyl)-6-hopene; (32R,33R,34R)-form, in T-10064	144841-13-4	3,15-Cedranediol; 3 α -form, in C-10042	145382-79-2	3,4,5,6-Tetrahydro-2,6,9-trimethyl-2,6-methano-2H-1-benzoxocin-3-ol, T-10033
144179-07-7	3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)-6-hopene; (3 β ,32R,33R,34S)-form, in M-10075	144860-68-4	Reveromycin B, R-10017	145398-59-0	Luffarin A, L-10069
144179-08-8	3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)-11-hopene; (3 β ,32R,33R,34R)-form, in M-10076	144860-69-5	Reveromycin C, R-10018	145398-60-3	Luffarin D, in L-10071
144179-09-9	29-(2,3,4,5-Tetrahydroxypentyl)-6,11-hopadiene; (32R,33R,34S)-form, in T-10063	144860-70-8	Reveromycin D, R-10019	145398-61-4	Luffarin M, in L-10073
144179-10-2	3-Methyl-29-(2,3,4,5-tetrahydroxypentyl)-6,11-hopadiene; (3 β ,32R,33R,34R)-form, in M-10073	144941-08-2	Laxaphycin B, L-10035	145398-62-5	Luffarin G, in L-10071
144331-30-6	γ -Glutamylcysteinylserine, G-10092	144941-11-7	Laxaphycin E, L-10036	145398-63-6	Luffarin I, L-10072
144376-62-5	Glisoprenin A, G-10040	144967-83-9	2,12-Cyathadien-1-ol; 1 β -form, in C-10152	145398-64-7	Luffarin J, in L-10072
144376-63-6	Glisoprenin B, G-10041	144967-84-0	8 α -Acetoxy-12 α ,13 α -epoxy-2-cyathene, in E-10050	145398-68-1	Luffarin P, L-10074
144398-20-9	Acaterin, H-10198	144967-85-1	1 β -Acetoxy-12 α ,13 α -epoxy-2-cyathene, in C-10152	145398-69-2	Luffarin Q, L-10075
144424-79-3	Psycholeine, P-10166	145038-22-8	Thorexanthin, T-10085	145398-70-5	Luffarin S, in L-10076
144425-08-1	► Irniine; (<i>R</i>)-form, in I-10020	145038-59-1	Lobomichaolide, in E-10060	145398-71-6	Luffarin T, L-10077
144425-13-8	Tubasencine, T-10208	145042-02-0	Angulatueoid D, in T-10043	145398-72-7	Luffarin V, in L-10077
144436-06-6	Kiheisterone A, K-10010	145042-09-7	Lecocarpinolide G, in T-10178	145398-73-8	Luffarin W, L-10078
144436-07-7	Kiheisterone B, K-10011	145047-92-3	1,8,9,14-Tetrahydroxydihydro- β -agarofuran; (1 α ,8 β ,9 α)-form, 9,14-Bis-(3-pyridinecarbonyl), 8-benzoyl, 1-Ac, in T-10043	145398-74-9	Luffarin X, P-10113
144442-82-0	Tubacetine, T-10207	145052-07-9	Lecocarpinolide E, in T-10178	145398-75-0	Luffarin Y, D-10288
144446-20-8	Enniatin F, E-10021	145066-21-3	Antibiotic AH 135Y, A-10098	145398-76-1	Luffarin Z, L-10079
144446-23-1	β -Aflatrem, A-10029	145075-01-0	3-Hydroxy-24-norcholesta-5,22-dien-7-one; (3 β ,22E)-form, in H-10193	145400-85-7	Peniopholide, in H-10125
144447-84-7	Arthropsadiol A, in A-10127	145075-02-1	Cholesta-5,22-diene-3,7-diol; (3 β ,7 β ,22E)-form, in C-10087	145400-87-9	3 β -Hydroxypeniopholide, in D-10143
144447-85-8	Arthropsadiol B, A-10126	145075-03-2	Cholesta-5,22-diene-3,7-diol; (3 β ,7 α ,22E)-form, in C-10087	145401-47-4	Sphingofungin E, S-10087
144447-87-0	Arthropsatriol B, in A-10127	145075-57-6	1,2,12,13-Tetrahydro-3-hydroxy-2-oxobergamotene, T-10030	145401-48-5	Sphingofungin F, in S-10087
144447-88-1	Arthropsatriol C, see A-10128	145103-37-3	Filicenol B, F-10010	145403-31-2	Gigantetronin, G-10034
144447-89-2	Arthropsolide B, in A-10129	145103-38-4	Filicenoic acid, in F-10009	145403-35-6	Gigantetronin, in G-10034
144447-89-5	Arthropsolide D, A-10129	145144-32-7	Butyrolactol A, B-10055	145416-92-8	Macrocarpal G, M-10002
144447-90-5	Arthropsolide D, A-10129	145144-33-8	Butyrolactol B, B-10056	145427-70-9	Luffarin B, L-10070
144466-07-9	Ergost-5-ene-3,22,25-triol; (3 β ,22R,24 ξ)-form, in E-10187	145147-05-3	Aranorosinol B, A-10113	145427-72-1	Luffarin K, L-10073
		145153-00-0	Abscisic alcohol; 11-O- β -D-Glucopyranoside, in A-10010	145427-73-2	Luffarin R, L-10076
		145163-96-8	3-Hydroxyergosta-5,22-dien-7-one; (3 β ,22E,24R)-form, in H-10134	145428-11-1	Sirosterol, S-10067
		145163-99-1	Ergosta-5,22-diene-3,7-diol; (3 β ,7 α ,24R)-form, in E-10173	145458-08-8	Chelodane, in C-10103
		145164-00-7	Ergosta-5,22-diene-3,7-diol; (3 β ,7 α ,24S)-form, in E-10173	145458-09-9	Barekoxide, B-10009
		145176-85-8	Lintenone, L-10055	145458-10-2	Zaatinin, Z-10001
		145204-90-6	Chaparramarin, in C-10066	145458-38-4	Napallilactone, N-10003
		145204-91-7	Punctanecine, P-10172	145458-91-9	Kobutimycin A, K-10014
		145204-97-3	O-Methylacutifolin, in A-10026	145458-92-0	Kobutimycin B, K-10015
		145204-98-4	Acutifolin palmitate, in A-10026	145459-46-7	Borapetoside C, in E-10102
		145211-81-0	Glaucanol A, in T-10201	145512-19-2	Luffarin H, in L-10071
		145223-62-7	15 α -Hydroxyfriedelin, in H-10147	145512-20-5	Luffarin U, in L-10077
				145512-52-3	3 α -Hydroxypeniopholide, in D-10143
				145512-54-5	7 α -Hydroxyconfertifolin, in H-10127
				145514-35-8	Luffarin E, see L-10071
				145514-36-9	Luffarin K, see L-10073
				145525-30-0	Luffarin L, in L-10073
				145543-56-2	Harziandione, H-10005
				145543-57-3	Cavernoisnitrile, C-10039
				145545-24-0	145543-57-3
				145613-54-3	12,16-Dihydroxy-20,24-dimethyl-17-scalaren-25,24-olide; (12 β ,16 α ,24 β H)-form, 12-(3-Hydroxypentanoyl), in D-10138

145613-55-4	Phyllactone C, <i>in</i> D-10138	145930-50-3	Fusoxysporone, F-10039	146389-40-4	Tryptochinone A, A-10005
145613-56-5	Phyllactone D, <i>in</i> D-10137	145940-29-0	Zeylaninone, <i>in</i> H-10152		Tryptochinonic acid A, <i>see</i> T-10203
145613-75-8	1,8,9,14-Tetrahydroxydihydro- β -agarofuran; (1 α ,8 β ,9 α)-form, 14-(3-Pyridinecarbonyl), 9-benzoyl, 8-(2-methylbutanoyl), 1-Ac, <i>in</i> T-10043	145940-30-3	Acutotrinol, <i>in</i> D-10171	146406-84-0	Pyrizinostatin, P-10178
145613-76-9	1,8,9,14-Tetrahydroxydihydro- β -agarofuran; (1 α ,8 β ,9 α)-form, 14-(3-Pyridinecarbonyl), 9-benzoyl, 8-(2-methylpropanoyl), 1-Ac, <i>in</i> T-10043	145940-31-4	Acutotrine, <i>in</i> D-10077	146426-35-9	3-Ethyl-1 <i>H</i> -pyrazolo[1,5- <i>b</i>]isoquinolin-9-one, E-10205
145631-53-4	14-Taraxerene-3,7-diol; (3 β ,7 α)-form, <i>in</i> T-10004	145940-74-5	Acerosterol, <i>in</i> T-10197	146426-36-0	3-Propyl-1 <i>H</i> -pyrazolo[1,5- <i>b</i>]isoquinolin-9-one, P-10153
145631-62-5	7-Hydroxy-6,11-cyclofarnes-3(15)-en-2-one, H-10106	145940-82-5	Triptogelin E5, <i>in</i> T-10138	146428-63-9	Teumassin, <i>in</i> D-10075
145631-63-6	12-Isoprenyl-3-cedrene-14,19-dioic acid; 19-Me ester, <i>in</i> I-10046	145940-83-6	Triptogelin E6, <i>in</i> T-10138	146436-22-8	Terpestacin, T-10019
145632-88-8	10-Isocyano-4-amorphene; 10 α -form, <i>in</i> I-10030	145940-84-7	Triptogelin E7, <i>in</i> T-10138	146445-76-3	Thalictoside A, <i>in</i> C-10165
145639-84-5	1,8,9,14-Tetrahydroxydihydro- β -agarofuran; (1 α ,8 β ,9 α)-form, 14-(3-Pyridinecarboxyl), 9-benzoyl, 1-Ac, <i>in</i> T-10043	145940-85-8	Triptogelin E8, <i>in</i> T-10138	146445-91-2	Hoduloside IV, <i>in</i> J-10007
145644-02-6	3-Oxocycloartan-21-oic acid, <i>in</i> H-10102	145940-86-9	Triptogelin F1, <i>in</i> T-10139	146445-92-3	Hoduloside V, <i>in</i> J-10007
145671-15-4	3-Hydroxycycloartan-21-oic acid; 3 α -form, <i>Ac</i> , <i>in</i> H-10102	145940-87-0	Triptogelin F2, <i>in</i> T-10139	146446-05-1	Gibeyrone A, <i>in</i> G-10031
145680-52-0	Phyllactone B, <i>in</i> D-10138	145940-93-8	Viridoxin A, V-10030	146446-06-2	Gibeyrone B, <i>in</i> G-10031
145680-53-1	Phyllactone E, <i>in</i> D-10137	145940-94-9	Viridoxin B, <i>in</i> V-10030	146446-07-3	Gibeyrone C, <i>in</i> G-10031
145700-87-4	12-Hydroxy-6,11,14-trioxo-8,12-abietadien-18-oic acid, H-10237	145984-73-1	Acutotrinone, <i>in</i> H-10152	146446-08-4	Gibeyrone D, <i>in</i> G-10031
145700-88-5	12-Methoxy-6,11,14-trioxo-8,12-abietadien-18-oic acid, <i>in</i> H-10237	145984-73-2	3,24,25-Trihydroxylanost-9(11)-en-30-oic acid; (3 α ,24 <i>R</i>)-form, <i>in</i> T-10157	146446-10-8	Gibeyrone E, <i>in</i> G-10031
145700-89-6	Horminone-18-oic acid, <i>in</i> D-10140	146001-22-1	14-Acetylsarcophytol J, <i>in</i> C-10049	146446-11-9	Gibeyrone F, G-10032
145700-90-9	20,24-Epoxy-1,3,12,25-dammaranetetrol; (1 β ,3 α ,12 β ,20 <i>S</i> ,24 <i>S</i>)-form, <i>in</i> E-10055	146018-83-9	Emeniveol, E-10012	146453-58-9	Thalictogenin a, <i>in</i> C-10165
145700-91-0	20,24-Epoxy-1,3,12,25-dammaranetetrol, <i>see</i> E-10055	146018-84-0	4,6,9-Trihydroxy-1(10),2-guaiadien-12,8-olide; (4 β ,5 α ,6 α ,8 α ,9 α ,11 α <i>H</i>)-form, 9-Ac, 6-angeloyl, <i>in</i> T-10151	146467-22-3	Methyl briareolate, <i>in</i> E-10154
145700-96-5	7,16,17-Kauranetriol; (<i>ent</i> -7 α ,16 β)-form, 17-(2-Methylbutanoyl), 7-Ac, <i>in</i> K-10004	146018-85-1	4,6,9-Trihydroxy-1(10),2-guaiadien-12,8-olide; (4 α ,5 α ,6 α ,8 α ,9 α ,11 α <i>H</i>)-form, 9-Ac, 6-tigloyl, <i>in</i> T-10151	146469-97-8	Thalictoside C, <i>in</i> C-10165
145700-97-6	7,16,17-Kauranetriol; (<i>ent</i> -7 α ,16 β)-form, <i>in</i> K-10004	146018-86-2	4,6,9-Trihydroxy-1(10),2-guaiadien-12,8-olide; (4 α ,5 α ,6 α ,8 α ,9 α ,11 α <i>H</i>)-form, 6,9-Di-Ac, <i>in</i> T-10151	146471-70-7	Dioncophyllacine A; (\pm)-form, <i>in</i> D-10289
145700-98-7	<i>ent</i> -7 α -Acetoxyl-16 β ,17-kauranediol, <i>in</i> K-10004	146028-66-2	4,6,9-Trihydroxy-1(10),2-guaiadien-12,8-olide; (4 α ,5 α ,6 α ,8 α ,9 α ,11 α <i>H</i>)-form, 9-Ac, 6-angeloyl, <i>in</i> T-10151	146471-74-1	Ancistrobrevine B, A-10081
145701-00-4	16,17-Dihydroxy-7-kauranone, <i>in</i> K-10004	146201-43-6	Acoseptrine, A-10025	146471-75-2	Dioncophylline C, D-10291
145701-01-5	7,16,17-Kauranetriol; (<i>ent</i> -7 α ,16 β)-form, 7-Ketone, 17-Ac, <i>in</i> K-10004	146257-45-6	2-Hydroxy-1(10),11-guaiadien-15-oic acid; (2 α ,4 β ,5 α)-form, <i>in</i> H-10154	146471-82-1	Asbestinin 6, <i>in</i> A-10130
145701-02-6	15,16-Dihydroxy-8(14)-isopimaren-7-one; (<i>ent</i> -15 <i>S</i>)-form, <i>in</i> D-10184	146257-46-7	Taxicin II; 5-Cinnamoyl, 10-Ac, <i>in</i> T-10070	146471-83-2	Asbestinin 7, <i>in</i> A-10130
145701-03-7	14,16-Epoxy-7-isopimarene-6,15-diol; (<i>ent</i> -6 α ,14 α ,15 α)-form, <i>in</i> E-10117	146257-47-7	Taxicin II; 5-Cinnamoyl, 9-Ac, <i>in</i> T-10070	146471-84-3	Asbestinin 8, <i>in</i> A-10130
145701-06-0	Asimicilone, A-10131	146257-57-0	Cycloart-24-ene-3,21,23-triol; (3 β ,23 <i>R</i>)-form, <i>in</i> C-10164	146471-85-4	Asbestinin 9, <i>in</i> A-10130
145701-14-0	Alpinic acid, <i>in</i> T-10193	146257-58-1	21,23-Epoxy-24-ene-3-ol; (3 α ,23 <i>S</i>)-form, <i>in</i> E-10054	146471-86-5	Asbestinin 10, <i>in</i> A-10130
145701-28-6	Salvinin F, D-10142	146257-61-6	3-Hydroxy-24,25,26,27-tetranor-24-ene-3,21-olide; 3 β -form, <i>in</i> H-10231	146488-63-3	Marinone, M-10017
145706-88-3	Candidissiol, C-10019	146257-69-4	21,23-Epoxy-24-ene-3,21-diol, <i>see</i> E-10051	146488-64-4	Debromomarinone, <i>in</i> M-10017
145757-44-4	Sarsolide A, S-10024	146257-70-7	21,23-Epoxy-24-ene-3,21-diol; (3 β ,21 ξ ,23 <i>R</i>)-form, <i>in</i> E-10051	146503-30-2	Hoduloside III, <i>in</i> J-10007
145774-69-2	14,16-Epoxy-7-isopimaren-15-ol; (<i>ent</i> -14 α ,15 α)-form, <i>in</i> E-10118	146257-74-1	21,23-Epoxy-24-ene-3-ol; (3 β ,23 <i>R</i>)-form, 3-Ketone, <i>in</i> E-10054	146506-41-4	4(17),10(18),14-Prenylguaiaatriene-3,6,9,12-tetrol; (3 β ,6 β ,9 α ,12 ξ)-form, 12-Ac, <i>in</i> P-10148
145774-76-1	Symviridine, S-10138	146257-75-2	21,23-Epoxy-24-ene-3-one, <i>in</i> E-10054	146506-42-5	4(17),10(18),15-Prenylguaiaatriene-6,9,12,14-tetrol; (6 β ,9 α ,12 ξ ,14 ξ)-form, 12-Ac, <i>in</i> P-10149
145826-23-9	Guajavin B, G-10137	146257-76-3	21,23-Epoxy-24-ene-3-ol; (3 β ,23 <i>R</i>)-form, <i>in</i> E-10054	146506-43-6	2,10(18),14-Prenylguaiaatriene-4,6,13-triol; (4 ξ ,6 β ,13 ξ)-form, 13-Ac, <i>in</i> P-10150
145826-24-0	Guajavin A, <i>in</i> S-10114	146257-77-4	21,23-Epoxy-24-ene-3-ol; (3 β ,23 <i>S</i>)-form, <i>in</i> E-10054	146522-99-8	4(17),10(18),14-Prenylguaiaatriene-3,6,9,12,13-pentol; (3 β ,6 β ,9 α ,12 ξ ,13 ξ)-form, 12,13-Di-Ac, <i>in</i> P-10144
145826-26-2	Psidin A, <i>in</i> M-10086	146257-94-5	Okanin; 4-Me ether, 4'- <i>O</i> -primveroside, <i>in</i> P-10040	146523-00-4	2,10(18),14-Prenylguaiaatriene-4,6,9,12,13-pentol; (4 ξ ,6 β ,9 α ,12 ξ ,13 ξ)-form, 12,13-Di-Ac, <i>in</i> P-10143
145826-27-3	Psidin B, <i>in</i> M-10087	146259-43-0	Dethymicin, D-10042	146539-97-1	Cycloart-25-ene-3,22-diol; (3 β ,22 <i>R</i>)-form, <i>in</i> C-10162
145826-28-4	Psidin C, P-10163	146293-93-8	Kahukuene A, K-10001	146539-98-2	Cycloart-20-ene-3,25-diol; 3 β -form, <i>in</i> C-10159
145826-29-5	Psiguavin, P-10164	146293-94-9	Kahukuene B, K-10002	146564-20-7	1(10)-Lepidozen-5-ol; (1(10) <i>E</i> ,4 <i>S</i> *,5 <i>S</i> *,6 <i>R</i> *,7 <i>R</i> *)-form, <i>in</i> L-10041
145851-28-1	Lambertianin A, L-10022	146356-80-1	Rosamultin 3-glucoside, <i>in</i> T-10194	146564-55-8	1,10:8,14-Diepoxy-14-hydroxy-4,11(13)-germacradien-12,6-olide; (1 α ,4 <i>E</i> ,6 α ,8 β ,10 α ,14 α)-form, <i>in</i> D-10079
145851-29-2	Roshenin A, R-10047	146356-83-4	Eupha-7,24-diene-1,3-diol; (1 β ,3 β)-form, <i>in</i> E-10227	146564-66-1	2,7,11-Cembratriene-4,6,13-triol; (1 <i>S</i> ,2 <i>E</i> ,4 <i>R</i> ,6 <i>R</i> ,7 <i>E</i> ,11 <i>E</i> ,13 <i>R</i>)-form, <i>in</i> C-10058
145900-94-3	14-Acetylsarcophytol B, <i>in</i> C-10049	146356-87-8	26-Nor-14-friedelen-3-one, <i>in</i> N-10045	146564-67-2	2,7,11-Cembratriene-4,6,20-triol, <i>see</i> C-10059
145904-72-9	Peniophoral, H-10203	146356-88-9	26-Nor-14-friedelen-3-ol; 3 β -form, <i>in</i> N-10045	146573-88-8	Seneciorenine, S-10047
		146356-94-7	7-Hydroxy-2-dotriacontanone, H-10121	146607-48-9	6,7-Dimethoxy-5-(3-oxo-1-butenyl)-2 <i>H</i> -1-benzopyran-2-one, D-10268
		146356-95-8	5-Acetoxytriacontane, <i>in</i> T-10101	146609-89-4	2,7,11-Cembratriene-4,6,13-triol, <i>see</i> C-10058
		146362-71-2	Tanshinonal, T-10003	146609-90-7	2,7,11-Cembratriene-4,6,20-triol; (1 <i>S</i> ,2 <i>E</i> ,4 <i>S</i> ,6 <i>R</i> ,7 <i>E</i> ,11 <i>Z</i>)-form, <i>in</i> C-10059
		146387-56-6	Smenoqualone, S-10068	146609-95-2	2,7,11-Cembratriene-4,6,13-triol, <i>see</i> C-10058
				146609-96-3	2,7,11-Cembratriene-4,6,13-triol, <i>see</i> C-10058
				146621-73-0	Setiformenol, E-10038
				146621-74-1	Taxchinin A, T-10008

146663-67-4	Dutomycin, D-10313	147317-95-1	Nitrosoxacin C, N-10032	147741-98-8	Cajucarinolide, in N-10050
146669-24-1	3-Hydroxy-3-(2-methylphenyl)propanamide, in H-10189	147317-96-2	Nitrosoxacin A, N-10030	147742-01-6	Jasamplexoside C, J-10003
146714-10-5	Genistifolin, G-10024	147317-97-3	Nitrosoxacin B, N-10031	147742-02-7	Jasamplexoside B, in J-10002
146787-96-4	Alpinoside, in D-10257	147318-39-6	Acalygorigin A, in E-10074	147742-03-8	Isocajucarinolide, in N-10049
146790-55-8	3,4-Dihydro-4-propylidene-2H-pyrrole-2-carboxylic acid, D-10101	147318-40-9	Acalygorigin B, in E-10074	147742-04-9	2,3,16,20,25-Pentahydroxy-29-norcucurbita-1,3,5(10)-triene-11,22-dione; (16 α ,20R)-form, 2-O- β -D-Glucopyranoside, 25-Ac, in P-10058
146830-04-8	20,24-Epoxy-25,26-dihydroxydammaran-3-one; (20S,24R,25 ξ)-form, in E-10063	147318-41-0	Acalygorigin C, X-10004		
146874-41-1	Cochinmicin IV, in C-10112	147348-08-1	Salvitriol, in O-10023	147742-10-7	Bidwillon A, T-10143
146876-02-0	Cochinmicin V, in C-10112	147368-34-1	Orientalol A, in G-10136	147742-11-8	Bidwillon B; (\pm)-form, in B-10022
146924-31-4	Isohumbertiol A, in I-10033	147368-35-2	Orientalol B, in G-10136		
146924-32-5	Isohumbertiol B, in I-10033	147395-09-3	Cholesta-8(14),24-diene-3,6-diol; (3 β ,7 α)-form, in C-10088	147742-23-2	Hazaleanin B, H-10006
146924-33-6	Isohumbertiol C, in I-10033	147395-93-5	Arborescidine B, in A-10114	147743-15-5	15-Acetoxy-17-nor-8-labden-7-one, in H-10194
146924-34-7	Isohumbertiol D, in I-10033	147395-94-6	Arborescidine C, A-10114		
146959-75-3	Calotroposide A, in T-10066	147395-95-7	Leucettamine A, L-10044	147743-23-5	1,10-Bisaboladiene-3,12-diol; 3-Epimer, 12-Ac, in B-10026
146959-76-4	Calotroposide F, in T-10066	147395-96-8	Leucettamine B, L-10045	147764-93-0	Jasamplexoside A, J-10002
146959-78-6	Calotroposide G, in T-10066	147395-97-9	Leucettamide, L-10043	147782-04-5	Guttiferone E, G-10142
146959-79-7	Spinochalcone C, S-10088	147396-19-8	Chrysorhelactone, C-10095	147783-00-4	Ferrocin D, in F-10005
146959-80-0	Spinoflavanone A, S-10089	147419-93-0	Dammara-20,24-diene-3,6,12-triol; (3 β ,6 α ,12 β)-form, 6-O-[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], in D-10005	147783-27-5	1,10-Bisaboladiene-3,12-diol; 12-Ac, in B-10026
146959-82-2	Lecocarpinolide L, in T-10178	147455-45-6	Sulcatine F, see S-10127	147802-34-4	Ergostane-3,22-diol; (3 α ,5 α ,22S,24S)-form, in E-10177
146959-83-3	Lecocarpinolide K, in T-10178	147511-74-8	Orientalol C, in E-10094		
146959-84-4	Lecocarpinolide I, in T-10178	147511-75-9	6,7-Epoxy-10(14)-guaien-4-ol, see E-10094	147809-20-9	13,14-Epoxy-9,11,12-trihydroxytriptolide, in A-10004
146959-86-6	Cebellin O, in D-10174	147512-45-6	Arborescidine D, in A-10114	147821-59-8	Sporochol A, in S-10105
146959-88-8	2,3,14,20,24,25-Hexahydroxycholest-7-en-6-one; (2 β ,3 β ,5 β ,14 α ,20S,24 ξ)-form, in H-10053	147515-44-4	Sulcatine F, S-10127	147821-60-1	Sporochol B, in S-10105
147029-00-3	Rugosal D, R-10059	147526-83-8	Castelose C, C-10035	147821-61-2	Sporochol C, S-10105
147029-01-4	Secocarotanal, D-10295	147526-84-9	Leptadenol, L-10042	147821-61-7	8(26),13,17,21-Polypodetetraen-3-ol; 3 β -form, in P-10129
147029-02-5	Isodaucenol, D-10018	147526-85-0	Euphoractine A, E-10229	147852-61-7	3-Methoxycycloartan-26,23-olide, in H-10104
147029-03-6	Bisaborosol F, in D-10120	147526-86-1	Euphoractine B, in E-10229		
147029-04-7	Bisaborosol E, in D-10119	147545-38-8	Tuberone, in H-10200	147852-63-9	3,6,11-Trihydroxy-24-nor-9,11-secocholesta-7,22-dien-9-one; (3 β ,6 α ,22E)-form, 11-Ac, in T-10168
147029-05-8	Angulatueoid E, in T-10043	147568-32-9	12-Acetoxy-4,11(13)-cadinadiene, in C-10005	147914-20-3	9-Humulene-2,6-dione, H-10073
147029-06-9	Angulatueoid F, in T-10043	147568-33-0	9-Hydroxy-8(14),15-isopimaradien-1-one, in I-10042	147921-90-2	Repandiol, in D-10034
147029-14-9	β -Bisabolol, in B-10032	147568-34-1	8(14),15-Isopimaradiene-1,9-diol; (1 α ,9 α)-form, in I-10042	147974-64-9	12-Oleanene-3,27-diol; 3 α -form, in O-10025
147044-48-2	Obtusilic acid, in D-10262	147568-35-2	8(14),15-Isopimaradiene-1,6,9-triol; (1 α ,6 β ,9 α)-form, 1-Ketone, 6-Ac, in I-10044	148044-48-8	Cycloartane-3,21-diol; 3 β -form, in C-10156
147058-07-9	2,3,4-Trihydroxypregnan-16-one; (2 α ,3 α ,4 β)-form, in T-10187	147568-36-3	6,9-Dihydroxy-8(14),15-isopimaradien-1-one, in I-10044	148044-49-9	24-Methylenecycloart-25-ene-3,21,22,23-tetrol; (3 β ,22 ξ ,23 ξ)-form, in M-10052
147059-45-8	Lecocarpinolide J, in T-10178	147568-37-4	8(14),15-Isopimaradiene-1,6,9-triol; (1 α ,6 β ,9 α)-form, 6-Ac, in I-10044	148054-13-1	Physagulin E, P-10107
147103-18-2	Samarangenin A, S-10008	147568-38-5	8(14),15-Isopimaradiene-1,6,9-triol; (1 α ,6 β ,9 α)-form, in I-10044	148054-17-5	Heliannol A, E-10034
147103-19-3	Samarangenin B, in S-10008	147612-77-9	Anatolioside B, A-10080	148076-22-6	Physagulin G, in P-10107
147126-85-0	Epirugosal D, in R-10059	147612-78-0	Anatolioside C, in A-10080	148084-37-1	Exfoliamycin, E-10238
147126-86-1	7,10-Dihydroxy-2,11-bisaboladien-15-oic acid, see D-10119	147612-79-1	Anatolioside D, in A-10080	148084-38-2	3-O-Methylexfoliamycin, in E-10238
147126-90-7	β -Bisabolol, B-10032	147641-71-2	3-Hydroxycholesta-5,22-diene-7,24-dione; (3 β ,22E)-form, in H-10096	148084-39-3	Anhydroexfoliamycin, in E-10238
147127-62-6	Cryprochine, C-10136	147641-72-3	3-Hydroxycholest-5-ene-7,24-dione; 3 β -form, in H-10099	148084-40-6	Anthrotainin A-10096
147139-55-7	Biphenomycin C, B-10025	147641-73-4	3-Hydroxy-26,27-dinorcholesta-5,22-diene-2,24-dione; (3 β ,22E)-form, in H-10115	148101-50-2	Bisterol, I-10001
147151-92-6	Gorgost-5-ene-1,3,9,11,21-pentol; (1 β ,3 β ,9 α ,11 α)-form, in G-10111	147641-74-5	3,25-Dihydroxyergosta-5,24(28)-dien-7-one; 3 β -form, in D-10155	148139-97-3	Phygrine, P-10104
147151-93-7	Gorgost-5-ene-1,3,11,21-tetrol; (1 β ,3 β ,11 α)-form, in G-10112	147648-62-2	4,11(13)-Cadinadien-12-ol, C-10005	148149-82-0	14-Deoxycrassin, in H-10094
147167-61-1	20(29)-Lupene-3,6,16-triol; (3 β ,6 β ,16 β)-form, in L-10085	147658-98-8	Isokarounidiol, I-10034	148149-83-1	Pseudoplexaurol, in E-10040
147170-08-9	23-Norgorgost-7-ene-3,5,6-triol; (3 β ,5 α ,6 β ,22R,23R,24R)-form, in N-10047	147658-99-9	Parathylone, P-10011	148163-07-9	Urauchimycin A, U-10011
147170-09-0	Ergostane-3,5,6,7,15-pentol; (3 β ,5 α ,6 β ,7 β ,15 β ,24S)-form, in E-10180	147659-01-6	20(29)-Lupene-3,15-diol; (3 β ,15 α)-form, in L-10083	148163-08-0	Urauchimycin B, U-10012
147171-70-8	Pepticinamin F, in P-10074	147663-78-3	Luffariolide F, L-10080	148218-52-4	Phygrine; Dipicrate, in P-10104
147171-71-9	Pepticinamin C, in P-10074	147663-79-4	Luffariolide G, L-10081	148225-29-0	Inflexarabdonin I, in D-10186
147171-72-0	Pepticinamin D, in P-10074	147666-65-7	Lagerstannin A, L-10017	148225-30-3	Inflexarabdonin J, in D-10187
147171-73-1	Pepticinamin A, in P-10074	147666-67-9	Lagerstannin B, L-10018	148225-31-4	Inflexarabdonin K, in T-10154
147171-74-2	Pepticinamin B, in P-10074	147687-34-1	Guttiferone A, G-10139	148225-32-5	Riccardiphenol A, R-10033
147199-47-1	Betulafolienetriol; 3-Malonyl, 12-Ac, in D-10011	147687-35-2	Guttiferone B, G-10140	148225-33-6	Riccardiphenol B, R-10034
147217-19-4	8,11-Epoxy-1,3-cembradiene-7,12-diol; (1E,3E,7 β ,8 α ,11 α ,12 β)-form, in E-10037	147687-36-3	Guttiferone C, G-10141	148225-34-7	Norafianone, N-10041
147217-20-7	8,11-Epoxy-1,3-cembradiene-7,12-diol; (1E,3E,7 β ,8 α ,11 α ,12 β)-form, 7-Ac, in E-10037	147687-37-4	Guttiferone D, in G-10141	148225-51-8	Saussureamine D, S-10028
147217-21-8	7,11-Epoxy-1,3-cembradiene-8,12-diol, E-10036	147703-44-4	2 α -Acetoxybrevifoliol, in T-10005	148225-52-9	Saussureamine E, in S-10028
147217-22-9	11,12-Dihydroxy-1,3-cembradien-7-one, D-10124	147727-65-9	Gouanogenin A, G-10114	148245-82-3	Saussureamine A, S-10026
147235-23-2	Isonaviculol, I-10038	147727-66-0	Gouanogenin B, G-10115	148245-83-4	Saussureamine C, S-10027
147235-24-3	Furanopinguisanol, F-10035	147731-93-9	13-Nor-1,3-elemadien-11-one, N-10044	148302-73-2	Crolechlinol, in C-10109
147317-36-0	Pepticinamin E, in P-10074	147736-85-4	Ferrocin C, in F-10005	148302-74-3	Crolechnic acid, in E-10045

148410-01-9	1,10-Epoxy-2-hydroxy-13-nor-7,11-nardosinanedione; (1 α ,2 β ,6 α H,10 α)-form, in E-10112	149195-80-2	3,10(18),13-Prenylguaiaatriene-6,9,12,15-tetrol; (1 α ,5 β ,6 β ,9 α ,12 ξ)-form, 12-Ac, in P-10146	149471-14-7	Stevionolide, in H-10208
148410-02-0	1,10-Epoxy-2-hydroxy-13-nor-7,11-nardosinanedione; (1 α ,2 β ,6 β H,10 α)-form, in E-10112	149195-81-3	2,10(18),14-Prenylguaiaatriene-4,6,9,12-tetrol; (1 α ,4 ξ ,5 β ,6 β ,9 α ,12 ξ)-form, 12-Ac, in P-10145	149471-15-8	Macrophylligenin, in O-10028
148530-00-1	Peruvianoside A, P-10084	149203-85-0	Eleganthol, in M-10094	149474-93-1	Macrophyllin, in O-10028
148707-48-6	2-(5-Ethenyltetrahydro-5-methyl-2-furanyl)-1-(4-methyl-2-furanyl)-1-propanone, E-10198	149204-43-3	Hypodiolide A, in D-10185	149492-40-0	7-Acetyl-4-bromo-1-isopropyl-3 α -methylindane, A-10015
148717-64-0	Tinotufolin A, in E-10100	149249-32-1	16-Hydroxy-19,20-kauranedial; (<i>ent</i> -16 β)-form, in H-10169	149496-35-5	β -Acoradienol, A-10024
148808-22-4	24-Hydroxydammar-20,25-dien-3-one; 24 ξ -form, in H-10107	149249-33-2	Kiheisterone C, in C-10082	149507-88-0	15-Hydroxy-4,11-muroladien-3-one, H-10191
148808-23-5	24-Hydroxydammar-20,25-dien-3-one, see H-10107	149260-73-1	Kiheisterone D, in C-10082	149537-81-5	8-Hydroxy-9-oxo-2-bisabolene-15-oic acid; Me ester, in H-10205
148810-31-5	Tinotufolin B, in E-10047	149260-74-2	Kiheisterone E, in C-10076	149537-82-6	3-Hydroxy-9-oxo-1-bisabolene-15-oic acid; Me ester, in H-10204
148963-42-2	3,21-Dihydroxy-30-nor-27-friedelanoic acid; (3 β ,21 β)-form, in D-10203	149260-75-3	Mycaperoxide A, M-10095	149598-70-9	Stachybotrydial, S-10106
148966-05-6	14-Serrulatene-3,7,8,20-tetrol; 3 α -form, in S-10049	149260-80-0	Mycaperoxide B, M-10096	149639-77-0	Scutegalin A, in T-10023
149064-34-6	Pycnidione, P-10175	149260-87-7	Hakonnediol, in N-10046	149639-78-1	Scutegalin B, in T-10121
149067-91-4	3,7-Epoxy-1,10-bisaboladien-12-ol; Ac, in E-10032	149260-88-8	Epihakonediol, in N-10046	149697-32-5	16-Hydroxycarnosol, in T-10127
149067-92-5	3,7-Epoxy-1,10-bisaboladien-12-ol; Propanoyl, in E-10032	149260-89-9	Glomeric acid, in H-10211	149697-34-7	11,12,16-Trihydroxy-20-nor-5(10),8,11,13-abietatetraen-1-one; 15 <i>R</i> -form, in T-10166
149067-93-6	3,7-Epoxy-1,10-bisaboladien-12-ol; Methylpropanoyl, in E-10032	149260-90-2	Flamigeric acid, in T-10167	149725-06-4	Acanthene A, in C-10079
149067-94-7	3,7-Epoxy-1,10-bisaboladien-12-ol; Butanoyl, in E-10032	149297-96-1	Quassiol, Q-10004	149725-22-4	Subellinone, S-10126
149067-96-9	Sesquiphellandren-7-ol, B-10031	149297-97-2	Sollasin A, S-10073	149725-27-9	Petuniasterone S, P-10090
149067-97-0	1,10,7,10-Diepoxy-2,11-bisaboladiene, D-10064	149297-98-3	Sollasin B, S-10074	149725-28-0	Petunianine C, P-10086
149090-97-1	Salsolene ketone, S-10004	149297-99-4	Sollasin C, S-10075	149725-29-1	Kinoin A, in P-10043
149124-78-7	Gouanoside A, in G-10114	149298-00-0	Sollasin D, S-10076	149725-30-4	Kinoin B, in P-10043
149124-79-8	Gouanoside B, in G-10115	149298-01-1	Sollasin E, S-10077	149725-31-5	Kinoin C, in D-10177
149155-26-0	Pogosterol, P-10126	149298-02-2	Sollasin F, H-10116	149725-32-6	Orthosiphon D, in T-10056
149155-52-2	11-Taxen-2,4,5,7,9,10,13,20-octol; (2 α ,4 α ,5 α ,7 β ,9 α ,10 β ,13 α)-form, 2-Benzoyl, 5,7,9,10,13-penta-Ac, in T-10010	149298-03-3	Fulvanin 2, F-10026	149725-33-7	Orthosiphon E, in T-10056
149155-53-3	11-Taxen-2,4,5,7,9,10,13,20-octol; (2 α ,4 α ,5 α ,7 β ,9 α ,10 β ,13 α)-form, 2-Benzoyl, 7,9,10,13,20-penta-Ac, in T-10010	149298-04-4	Utenospongine C, U-10010	149747-31-9	Tuberosic acid, H-10070
149172-52-1	Kinoin A; 3- <i>O</i> -[α -L-Rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], in P-10043	149301-57-5	6,10-Dihydroxy-3-oxo-7(11),8-eremophiladien-12,8-olide; (6 α ,10 β)-form, in D-10218	149764-31-8	Toxicol B; 1',4'-Disulfate, in T-10097
149172-53-2	Kinoin A; 23,24-Dihydro, 22-ketone, 3- <i>O</i> -[α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], in P-10043	149301-58-6	4,7-Epoxy-11-eremophilanol; (4 α ,7 α ,10 β)-form, Undecanoyl, in E-10080	149764-32-9	Toxicol B, T-10097
149172-54-3	Kinoin A; 3- <i>O</i> - β -D-Glucopyranoside, in P-10043	149301-68-8	6,8-Dihydroxy-3-oxo-1,7(11),9-eremophilatrien-12,8-olide; (6 β ,8 β OH)-form, in D-10219	149764-33-0	Toxicol C, in T-10097
149180-47-2	Eurylactone, E-10233	149301-71-3	4,6,8,9-Tetrahydroxy-7-daucanone; (4 β ,6 α ,8 α ,9 α)-form, 6-(4-Hydroxybenzoyl), in T-10041	149764-34-1	Toxiusol, T-10098
149182-64-9	Methyl neosartortuate, in N-10021	149301-85-9	Jaeschkenol, J-10001	149820-00-8	2,19:4,18:15,16-Triepoxy-6,7,16,19-clerodanetetrol, see T-10121
149182-65-0	7,8:11,12-Diepoxy-1,3,15-cembra trien-14-ol; (1 <i>E</i> ,3 <i>E</i> ,7 <i>R</i> *,8 <i>R</i> *,11 <i>S</i> *,12 <i>S</i> *,14 <i>R</i> *)-form, Ac, in D-10065	149312-89-0	2,7,11-Cembratriene-4,6,10-triol; (1 <i>S</i> ,2 <i>E</i> ,4 <i>S</i> ,6 <i>R</i> ,7 <i>E</i> ,10 <i>R</i> ,11 <i>E</i>)-form, 10-Ketone, in C-10057	149820-62-2	Acanthene B, in I-10054
149182-79-6	Gomojoside N, in L-10005	149312-90-3	4,10-Dihydroxy-2,7,11-cebratrien-6-one, in C-10057	149820-63-3	Acanthene C, in I-10054
149182-80-9	Gomojoside O, in L-10006	149340-19-2	4,18:10,12:15,16-Triepoxy-13(16),14-clerodadiene-3,6,12,19-tetrol, see T-10120	149864-63-1	Blattellastanoside A, in C-10078
149182-81-0	Gomojoside P, in D-10188	149355-66-8	Lotusine D, in L-10065	149864-70-0	Cheloviolen D, C-10069
149182-82-1	Gomojoside Q, in D-10189	149355-67-9	Isoneolaugerine, in N-10020	149864-72-2	Claraenone, C-10100
149183-66-4	Squasapogenol, in O-10020	149355-68-0	15-Hydroxyisoneolaugerine, in N-10020	149952-32-9	Cheloviolen B, in C-10067
149183-81-3	6-Hydroxy- $\Delta^{7,14}$ -caulerpenyne, H-10093	149355-80-6	Igzamide, I-10002	149952-33-0	Cheloviolen E, C-10070
149183-83-5	6-Hydroxy- $\Delta^{7,14}$ -caulerpenyne, see H-10093	149377-30-0	Lotusine A, L-10065	149981-93-1	Fagonone; 16-Ac, in D-10156
149183-86-8	Taxifolione, M-10060	149402-60-8	3-(3,7-Dimethyloctyl)-2,6,10-trimethyl-1,11-dodecadiene, D-10283	149992-88-1	Teucrolin D, T-10078
149195-78-8	3,10(18),14-Prenylguaiaatriene-6,9,12,13-tetrol; (1 α ,5 β ,6 β ,9 α ,12 ξ ,13 ξ)-form, 6,12,13-Tri-Ac, in P-10147	149403-67-8	2,7,11-Cembratriene-4,6,10-triol; (1 <i>S</i> ,2 <i>E</i> ,4 <i>S</i> ,6 <i>R</i> ,7 <i>E</i> ,10 <i>S</i> ,11 <i>E</i>)-form, in C-10057	149998-33-4	Guenerine, G-10138
149195-79-9	3,10(18),14-Prenylguaiaatriene-6,9,12,13-tetrol; (1 α ,5 β ,6 β ,9 α ,12 ξ ,13 ξ)-form, 12,13-Di-Ac, in P-10147	149403-68-9	2,7,11-Cembratriene-4,6,10-triol; (1 <i>S</i> ,2 <i>E</i> ,4 <i>S</i> ,6 <i>R</i> ,7 <i>E</i> ,10 <i>R</i> ,11 <i>E</i>)-form, in C-10057	149998-37-8	Annotetine, A-10092
		149403-69-0	2,7,11-Cembratriene-4,6,10-triol; (1 <i>S</i> ,2 <i>E</i> ,4 <i>R</i> ,6 <i>R</i> ,7 <i>E</i> ,10 <i>R</i> ,11 <i>E</i>)-form, in C-10057	149998-52-7	Annotatine, A-10089
		149403-70-3	2,7,11-Cembratriene-4,6,10-triol; (1 <i>S</i> ,2 <i>E</i> ,4 <i>R</i> ,6 <i>R</i> ,7 <i>E</i> ,10 <i>S</i> ,11 <i>E</i>)-form, in C-10057	150033-85-5	Cycloshizukaol A, C-10170
		149403-71-4	2,7,11-Cembratriene-4,6,10-triol; (1 <i>S</i> ,2 <i>E</i> ,4 <i>R</i> ,6 <i>R</i> ,7 <i>E</i> ,10 <i>S</i> ,11 <i>Z</i>)-form, in C-10057	150033-91-3	Ganoderic acid V ₁ , in D-10255
		149403-72-5	4,6-Dihydroxy-2,7,11-cebratrien-10-one, in C-10057	150034-01-8	1,5-Epoxy-14-nor-11-guaien-10-one; (1 α ,4 β ,5 α)-form, in E-10135
		149405-98-1	Neolaugerine, N-10020	150034-03-0	3,11-Eudesmadien-15-al, E-10209
		149415-82-7	1,4,6,10,14-Phytapentaene-3,13-diol; (3 ξ ,4 <i>E</i> ,6 <i>E</i> ,10 <i>E</i> ,13 <i>R</i>)-form, in P-10109	150034-05-2	4,11-Eudesmadien-15-al, E-10210
				150034-06-3	3,11-Eudesmadien-15-oic acid, in E-10209
				150034-07-4	9-Hydroxy-4,11-eudesmadien-15-oic acid; 9 β -form, in H-10138
				150036-04-7	15-Beyerene-12-ol; (<i>ent</i> -12 α)-form, in B-10019
				150036-12-7	2,17-Dihydroxy-15-beyerene-1-one; (<i>ent</i> -2 β)-form, in D-10117
				150036-13-8	1,17-Dihydroxy-15-beyerene-2-one, in D-10117
				150036-15-0	1,19-Dihydroxy-15-beyerene-2-one; (<i>ent</i> -1 β)-form, in D-10116
				150036-24-1	1 β ,11 β -Dihydroxyerythroxydiol X, in D-10043
				150036-38-7	1(10)-Rosene-15,16-diol; (<i>ent</i> -5 α ,15 ξ)-form, in R-10044
				150036-39-8	11-Acetoxy-1(10)-rosene-15,16-diol, in R-10045
				150036-41-2	8(14),15-Pimaradiene-3,11-diol; (<i>ent</i> -3 β ,11 α)-form, in P-10117
				150036-43-4	4(18)-Erythroxylyene-11,15,16-triol; (<i>ent</i> -11 β ,15 ξ)-form, in E-10196
				150036-44-5	4(18)-Erythroxylyene-11,15,16-triol; (<i>ent</i> -11 β ,15 ξ)-form, 11-Ac, in E-10196

150036-45-6	4(18)-Erythroxylylene-1,11,15,16-tetrol; (<i>ent</i> -1 β ,11 β ,15 ξ)- <i>form</i> , 1-Ac, in E-10194	150621-50-4	11(15 \rightarrow 1)-Abeo-5,20:10,5-diepoxy-2,4,7,13-tetrahydroxy-11-taxen-9-one; (2 α ,4 α ,5 β ,7 β ,10 β ,13 α)- <i>form</i> , 2-Benzoyl, 4-Ac, in A-10003	151162-85-5	20,24-Epoxy-2-glucosyloxy-3,16,25-trihydroxycucurbit-5-en-11-one, in E-10143
150036-53-6	8(17),13(16)-Labdadiene-14,15-diol; (<i>ent</i> -14 ξ)- <i>form</i> , in L-10002	150626-50-9	Gycomoside I, in D-10006	151162-86-6	20,24-Epoxy-2-glucosyloxy-16,25,26-trihydroxycucurbit-5-ene-3,11-dione, in E-10143
150036-55-8	5,16-Rosanediol; (<i>ent</i> -5 β)- <i>form</i> , in R-10043	150640-79-2	6,7,11-Trihydroxy-5,7,9(11),13-abietatetraen-12-one, T-10124	151162-87-7	20,24-Epoxy-2,3,16,25,26-pentahydroxycucurbit-5-en-11-one; (2 β ,3 β ,16 α ,20 ξ ,24 ξ ,25 ξ)- <i>form</i> , 2-O- β -D-Glucopyranoside, in E-10143
150036-57-0	4,15,16-Trihydroxy-4,5-seco-5-rostanone; (<i>ent</i> -15 ξ)- <i>form</i> , in T-10190	150641-32-0	9-Chloro- <i>p</i> -mentha-1,3,5,8-tetraene-2,5,10-triol; 2-Me ether, 10-Ac, in C-10083	151162-88-8	2-Glucosyloxy-16,20,26-trihydroxycucurbita-5,24-diene-3,11-dione, in P-10042
150036-58-1	4,18-Epoxy-16-hydroxy-4,5-seco-5-rostanone, in T-10190	150641-33-1	9-Chloro-6-methoxy- <i>p</i> -mentha-1,3,5,8-tetraene-3,10-diol, in C-10083	151162-89-9	2,3,16,20,26-Pentahydroxycucurbita-5,24-dien-11-one; (2 β ,3 β ,16 α ,20S,24Z)- <i>form</i> , 2-O- β -D-Glucopyranoside, in P-10042
150036-59-2	4,5,16,18-Tetrahydroxy-4,5-seco-5-rostanone, in T-10190	150641-34-2	<i>p</i> -Mentha-1,3,5-triene-2,5,8,9,10-pentol; 9-Tigloyl, 2-Me ether, in M-10030		
150036-60-5	16-Hydroxy-4,5-seco-4(18)-rosene-5,15-dione, in T-10190	150641-35-3	<i>p</i> -Mentha-1,3,5-triene-2,5,8,9,10-pentol; 9-Tigloyl, 2-Me ether, 10-Ac, in M-10030	151171-18-5	Xestoquinolide A, X-10008
150036-61-6	4,13-Dihydroxy-15,16-dinor-4,5-seco-5-rostanone; (<i>ent</i> -13 β)- <i>form</i> , in D-10139	150881-01-9	Peritassine A, P-10083	151171-32-3	Carolisterol A, C-10026
150036-62-7	4(18)-Erythroxylylene-7,15,16-triol; (<i>ent</i> -7 α ,15S)- <i>form</i> , in E-10195	150881-25-7	Lapidilectin, in L-10025	151171-33-4	Carolisterol B, in C-10026
150036-63-8	4(18)-Erythroxylylene-7,15,16-triol; (<i>ent</i> -7 α ,15R)- <i>form</i> , in E-10195	150881-26-8	Epilapidilectin, in L-10025	151171-34-5	Carolisterol C, in C-10026
150036-75-2	17-Hydroxy-15-beyeren-1-one; <i>ent</i> - <i>form</i> , in H-10088	150881-29-1	Peritassine B, in P-10083	151171-36-7	Sulfoorientalol A, S-10129
150036-78-5	2,17-Dihydroxy-2,15-beyeradien-1-one; <i>ent</i> - <i>form</i> , in D-10114	150900-68-8	1,4,6,8,14-Pentahydroxydihydro- β -agarofuran; (1 α ,4 β ,6 β ,9 β)- <i>form</i> , 9-Benzoyl, 1,6,14-tri-Ac, in P-10047	151171-37-8	Sulfoorientalol D, S-10132
150036-79-6	2,19-Dihydroxy-15-beyeren-1-one; (<i>ent</i> -2 β)- <i>form</i> , in D-10118	150900-96-2	7,8,13-Trihydroxy-15,16-dinor-18-isopimaranoic acid; (7 β ,8 β ,13 α)- <i>form</i> , in T-10141	151171-38-9	Sulfoorientalol B, S-10130
150036-81-0	2,19-Dihydroxy-2,15-beyeradien-1-one; <i>ent</i> - <i>form</i> , in D-10115	150943-96-7	8(14),15-Isopimaradiene-3,9-diol; (3 β ,9 α)- <i>form</i> , in I-10043	151178-05-1	Preleoheterin, in D-10082
150044-49-8	Uhdoside A, U-10001	150968-29-9	Thalictoside II, in E-10053	151200-48-5	Borapetoside D, in E-10104
150050-12-7	Sodivanone A, S-10069	150968-30-2	Thalictoside I, in E-10053	151200-49-6	Borapetoside E, in E-10104
150050-13-8	Sodivanone B, in S-10069	150972-71-7	16,23:16,24-Diepoxy-7-ene-3,15,25-triol; (3 β ,15 α ,23R,24R)- <i>form</i> , in D-10070	151200-50-9	Borapetoside F, in E-10099
150065-53-5	12,13:15,16-Diepoxy-3-clerodene-15,16-diol; (<i>ent</i> -12S,13R,15S,16R)- <i>form</i> , Di-Ac, in D-10068	150972-72-8	7,8-Didehydrocimigenol, in D-10070	151200-62-3	Pulverulactone, P-10171
150065-57-9	16-Hydroxyrosmanol, in T-10034	150972-73-9	7,8-Didehydrocimigenol; 25-Ac, in D-10070	151200-89-4	Poricoic acid C, P-10135
150065-59-1	8,11,13-Abietatriene-11,12,16,20-tetrol, A-10008	150972-74-0	16,23:16,24-Diepoxy-7-ene-3-one, in D-10070	151200-90-7	Poricoic acid D, P-10136
150065-60-4	16-Hydroxy-20-deoxocarnosol, in E-10031	150972-75-1	16,23:16,24-Diepoxy-7-ene-3,15,25-triol; (3 β ,15 α ,23R,24R)- <i>form</i> , 3-O-(2,4-Diacetyl- β -D-xylopyranoside), in D-10070	151200-91-8	Poricoic acid DM, in P-10136
150071-58-2	4,11-Eudesmadien-15-oic acid, in E-10210	150972-76-2	16,23:16,24-Diepoxy-7-ene-3,15,25-triol; (3 β ,15 α ,23R,24R)- <i>form</i> , 3-O-(3-Acetyl- β -D-xylopyranoside), in D-10070	151200-93-0	Schistoichilic acid A, S-10034
150079-95-1	Sodivanone C, S-10070	150972-77-3	16,23:16,24-Diepoxy-7-ene-3,15,25-triol; (3 β ,15 α ,23R,24R)- <i>form</i> , 3-O- β -D-Xylopyranoside, in D-10070	151200-95-2	Schistoichilic acid C, in O-10053
150132-97-1	Teucrolin A, in T-10120	150972-78-4	16,23-Epoxy-7-ene-3,15,16,24,25-pentol; (3 β ,15 α ,16 α OH,23R,24S)- <i>form</i> , 3-O- β -D-Xylopyranoside, 24-Ac, in E-10052	151201-77-3	Dictamnol, in T-10200
150134-19-3	16-Hydroxyepirosmanol, in T-10034	150975-27-2	Sulfoorientalol C, S-10131	151201-78-4	Heracleifolinol, H-10032
150134-36-4	15-Beyeren-7-one; <i>ent</i> - <i>form</i> , in B-10020	150999-03-4	Villosterol, in D-10244	151204-56-7	Amabiline†, A-10051
150134-40-0	18-Hydroxymanool, in L-10004	150999-04-5	Joalin, J-10005	151247-69-7	Xestoquinolide B, X-10009
150148-79-1	Violasterol A, in I-10047	151003-93-9	Isolapidilectine A, in L-10025	151271-52-2	Panelone, in P-10009
150148-80-4	Rabdokaurin C, in E-10120	151003-94-0	Lapidilectin, in L-10025	151283-37-3	Verbascosaponin A, in O-10029
150148-82-6	20-Hydroxy-12-ursen-3-one; 20 β - <i>form</i> , in H-10243	151029-03-7	11-Hydroxy-8(12)-drimen-13-oic acid, H-10126	151310-19-9	5-Oxo-3,14-iscidadien-16-oic acid, in H-10245
150172-60-4	Rabdokaurin D, R-10001	151029-04-8	3,11-Dihydroxy-8(12)-drimen-13-oic acid; 3 β - <i>form</i> , in D-10144	151310-20-2	5-Hydroxy-3,14-iscidadien-16-oic acid, H-10245
150259-04-4	9,10-Dihydroxy-5-longipinanone; (3 α ,9 α ,10 β)- <i>form</i> , Diangeloyl, in D-10190	151061-95-9	24-Epiacernin, in A-10012	151310-24-6	8,10,12-Trihydroxy-3-longipinen-5-one; (8 α ,10 β)- <i>form</i> , 8,12-Diangeloyl, 10-Ac, in T-10158
150312-94-0	17,18-Epoxy-8,10,13(15)-lobatrien-16-ol, E-10127	151077-55-3	1,8-Dihydroxyacridone, D-10107	151310-25-7	10,12-Dihydroxy-3-longipinen-5-one; 10 β - <i>form</i> , 12-Angeloyl, 10-Ac, in D-10191
150312-95-1	8,10,13(15)-Lobatriene-16,17,18-triol, L-10058	151140-12-4	7-Ketoisodrimen-3-ene, O-10055	151310-26-8	8,10,12-Trihydroxy-3-longipinen-5-one; (8 α ,10 β)- <i>form</i> , 12-Angeloyl, 8-(3-methyl-2-butenoyl), 10-Ac, in T-10158
150337-38-5	3-Episocucurbitacin G, in P-10044	151162-82-2	20,24-Epoxy-2-glucosyloxy-16,25-dihydroxycucurbit-5-ene-3,11-dione, in E-10143	151334-08-6	1,8,10-Trihydroxy-7(11)-eremophilin-12,8-olide; (1 α ,8 β OH,10 β)- <i>form</i> , 1-Angeloyl, in T-10146
150375-22-7	Secoswartzianin A, S-10042			151341-09-2	Panelol, P-10009
150375-23-8	Secoswartzianin B, S-10043			151344-95-5	Withametelin G, in W-10004
150375-70-5	Spicatolide A, in E-10166			151345-06-1	Decortinol, in S-10119
150375-71-6	Spicatolide B, in E-10166			151345-07-2	Isodecortinol, in S-10119
150395-84-9	Linariloside, L-10054			151345-08-3	Decortinone, in S-10119
150395-85-0	Secolinarioside, S-10040			151368-42-2	Suberosol, in M-10053
150417-67-7	Aplysinamisine I, A-10107			151368-46-6	Salvicannaldehyde, S-10006
150417-68-8	Aplysinamisine II, A-10108			151392-07-3	24(23 \rightarrow 22)-Abeo-16,23:18,20-diepoxycholesta-5,24-diene-3,18,23-triol; (3 β ,16 β ,18R,20R,22R,23R)- <i>form</i> , 18-Me ether 3-O-[α -L-rhamnopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-glucopyranoside], in A-10002
150417-69-9	Aplysinamisine III, in H-10045			151397-98-7	Blattellastanoside B, in C-10086
150417-74-6	Withasomidienone, in H-10213			151480-67-0	15-Hydroxy-12-oxo-7,13-abietadien-18-oic acid, H-10201
150431-65-5	Coagulin, in E-10073			151480-68-1	7,13-Dioxo-8(14)-podocarpin-18-oic acid, D-10294
150527-27-8	24-Methylenecycloartane-3,20-diol; (3 β ,20S)- <i>form</i> , in M-10051			151484-80-9	Palmonine A, in E-10083
150527-28-9	Fagonone, in D-10156			151484-81-0	Palmonine B, in E-10084
150527-31-4	Intricatetraol, I-10014				
150527-32-5	Longirabdolactone, in L-10063				
150527-33-6	Longirabdactel, L-10063				

151484-82-1	Palmonine C, <i>in</i> E-10083
151484-83-2	Palmonine D, <i>in</i> E-10084
151484-86-5	Juniperolide, <i>in</i> H-10202
151484-87-6	Juniperal, <i>in</i> D-10216
151484-88-7	Norjuniperolide, <i>in</i> N-10048
151484-89-8	Secojuniperolide, <i>in</i> E-10147
151484-90-1	Chinanoxal, <i>in</i> H-10206
151515-28-5	Palmonine E, <i>in</i> E-10065
151516-48-2	Scorospiroside, <i>in</i> E-10128
151563-71-2	11-Eudesmene-2,4-diol; (2 α ,4 α)- <i>form</i> , <i>in</i> E-10219