

[基原] *Artemisia vulgaris*
[その他のデータ] Mixt. of diastereoisomers

-----文献-----

Näf-Müller, R. et al., *Helv. Chim. Acta*, 1981, 64, 1424-1430, (分離, H-NMR)

§ 2,5-Dimethyl-3-vinyl-5-hexene-2,4-diol; 4-Ketone, 2-Ac

[CAS No.] 79507-89-4

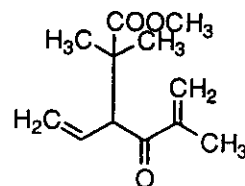
[化合物分類] テルペノイド (Irregular acyclic monoterpenoids)

[構造式]

[分子式] $C_{12}H_{18}O_3$

[分子量] 210.272

[基原] *Artemisia vulgaris*



-----文献-----

Näf-Müller, R. et al., *Helv. Chim. Acta*, 1981, 64, 1424-1430, (分離, H-NMR)

§ 9(11)-Fernen-3-ol; 3 β -form

[化学名・別名] Fernenol. α -Fernenol

[CAS No.] 4966-00-1

[化合物分類] テルペノイド (Farnane triterpenoids)

[構造式]

[分子式] $C_{30}H_{50}O$

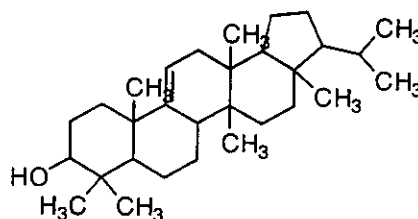
[分子量] 426.724

[基原] *Artemisia vulgaris*, *Imperata cylindrica*, その他の植物

[性状] 結晶

[融点] Mp 192-193 °C

[比旋光度]: $[\alpha]_D -19.4$ (c, 0.8 in $CHCl_3$)



-----文献-----

Ogunkoya, L. et al., *Phytochemistry*, 1977, 16, 1606, (分離)

Obafemi, C.A. et al., *Phytochemistry*, 1979, 18, 496, (分離)

Wu, F.-E. et al., *Chem. Pharm. Bull.*, 1990, 38, 2282, (Fernenone, H-NMR, C13-NMR)

§ 1,7,9-Heptadecatriene-11,13,15-triene; (all-E)-form

[CAS No.] 41688-30-6

[化合物分類] 脂肪族化合物 (Acetylenic hydrocarbons)

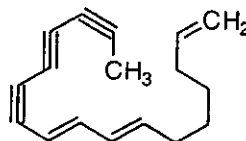
[構造式]

[分子式] $C_{17}H_{18}$

[分子量] 222.329

[基原] *Chrysanthemum leucanthemum*, *Dahlia* spp. また *Centaurea cyanus*, *Artemisia vulgaris* から得られる

[融点] Mp 17.5 °C



-----文献-----

Bentley, R.K. et al., *J.C.S. (C)*, 1969, 1096, (分離)

Bedford, C.T. et al., *J.C.S. Perkin 1*, 1976, 735, (合成法)

§ 1-Hydroxy-2,4(18),11(13)-eudesmatrien-12-oic acid; 1 α -form

[CAS No.] 135594-81-9

[化合物分類] テルペノイド (Simple eudesmane sesquiterpenoids)

[構造式]

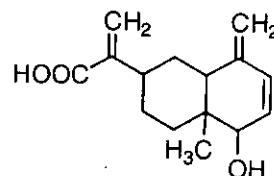
[分子式] $C_{15}H_{20}O_3$

[分子量] 248.321

[基原] *Artemisia vulgaris*

[性状] Gum

[比旋光度]: $[\alpha]_D +85$ (c, 0.3 in $CHCl_3$)



-----文献-----

Marco, J.A. et al., *Phytochemistry*, 1991, 30, 2403, (分離, H-NMR, C13-NMR)

§ 4-Hydroxy-1-oxo-2-eudesmen-12,6-olide; (4 α , 6 α , 11 α)-form

Glasl, S. et al., *Phytochemistry*, 1995, 38, 159, (Tauramin, H-NMR, C13-NMR)

RTECS (化学物質毒性データ)

生体影響物質 : 医薬品, 天然物.

健康障害に関するデータ

急性毒性に関するデータ

<<試験方法>> LD50 試験(50%致死量試験).

曝露経路 : 経口投与.

被験動物 : げっ歯類-マウス.

投与量・期間 : 79 mg/kg

毒性影響 : {行動} 興奮.

{行動} 筋収縮または痙直.

参考文献

Farmakologiya i Toksikologiya (Moscow). For English translation, see PHTXA6 and RPTOAN. (V/O Mezhdunarodnaya Kniga, 113095 Moscow, USSR) 29,444,1966

§ Lyratol; (S,E)-form, Ac

[CAS No.] 79549-21-6

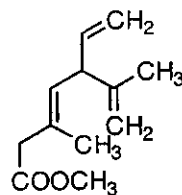
[化合物分類]テルペノイド (Irregular acyclic monoterpenoids)

[構造式]

[分子式] C₁₂H₁₈O₂

[分子量] 194.273

[基原] *Artemisia vulgaris*



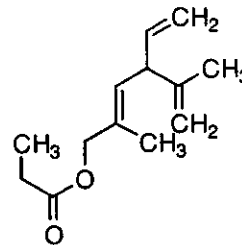
-----文献-----

Devgan, O.N. et al., *Curr. Sci.*, 1967, 36, 205, (分離)

Devgan, O.N. et al., *Tetrahedron*, 1969, 25, 3217, (構造決定)

Bamboria, B.K. et al., *Indian J. Chem.*, 1971, 9, 186, (分離)

Näf-Müller, R. et al., *Helv. Chim. Acta*, 1981, 64, 1424, (esters)



§ Lyratol; (S,E)-form, Propanoyl

[CAS No.] 79507-85-0

[その他の CAS No.] 20384-05-8

[化合物分類]テルペノイド (Miscellaneous bicyclic monoterpenoids)

[構造式]

[分子式] C₁₅H₂₀O₂

[分子量] 208.3

[基原] *Artemisia vulgaris*

-----文献-----

Devgan, O.N. et al., *Curr. Sci.*, 1967, 36, 205, (分離)

Devgan, O.N. et al., *Tetrahedron*, 1969, 25, 3217, (構造決定)

Bamboria, B.K. et al., *Indian J. Chem.*, 1971, 9, 186, (分離)

§ Lyratol; (S,Z)-form, Ac

[CAS No.] 79549-24-9

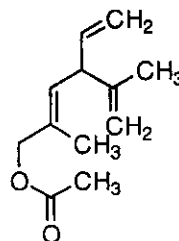
[化合物分類]テルペノイド (Irregular acyclic monoterpenoids)

[構造式]

[分子式] C₁₂H₁₈O₂

[分子量] 194.273

[基原] *Artemisia vulgaris*



-----文献-----

Devgan, O.N. et al., *Curr. Sci.*, 1967, 36, 205, (分離)

Devgan, O.N. et al., *Tetrahedron*, 1969, 25, 3217, (構造決定)

Bamboria, B.K. et al., *Indian J. Chem.*, 1971, 9, 186, (分離)

§ Lyratol; (S,Z)-form, Ac

[CAS No.] 79549-24-9

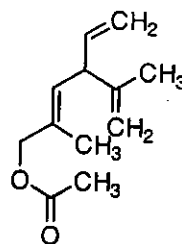
[化合物分類]テルペノイド (Irregular acyclic monoterpenoids)

[構造式]

[分子式] $C_{12}H_{18}O_2$

[分子量] 194.273

[基原] *Artemisia vulgaris*



-----文献-----

Devgan, O.N. et al., Curr. Sci., 1967, 36, 205, (分離)

Devgan, O.N. et al., Tetrahedron, 1969, 25, 3217, (構造決定)

Bamboria, B.K. et al., Indian J. Chem., 1971, 9, 186, (分離)

§ 5-Methyl-2-methylene-3-vinyl-4-hexen-1-ol; (S)-form, Ac

[CAS No.] 79507-87-2

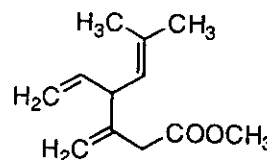
[化合物分類]テルペノイド (Irregular acyclic monoterpenoids)

[構造式]

[分子式] $C_{12}H_{18}O_2$

[分子量] 194.273

[基原] *Artemisia vulgaris*



-----文献-----

Näf-Müller, R. et al., Helv. Chim. Acta, 1981, 64, 1424, (Ac)

Bohlmann, F. et al., Phytochemistry, 1982, 21, 2691-2697, (分離, ester)

§ 5-(5-Methyl-2-thienyl)-2-penten-4-ynoic acid; (Z)-form, Me ester

[化合物分類]脂肪族化合物 (Acetylenic acids and esters), 脂肪族化合物 (Miscellaneous thiophenes)

[構造式]

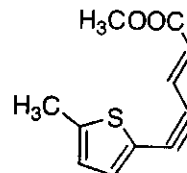
[分子式] $C_{11}H_{10}O_2S$

[分子量] 206.265

[基原]次の植物から分離: *Artemisia vulgaris* の根, *Anthemis nobilis*, *Anacyclus radiatus*

[性状]淡黄色のオイル

[その他のデータ] λ_{max} 338 nm (Et₂O)



-----文献-----

Bohlmann, F. et al., Chem. Ber., 1962, 95, 1733; 1963, 96, 584; 588, (分離, UV, IR, 構造決定, 合成法)

Schulte, K.E., Phytochemistry, 1966, 5, 949, (合成)

§ 3-Oxo-1,4,11 (13)-eudesmatrien-12-oic acid

[CAS No.] 135594-80-8

[化合物分類]テルペノイド (Simple eudesmane sesquiterpenoids)

[構造式]

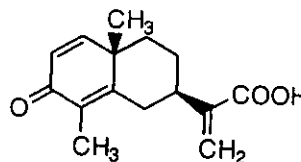
[分子式] $C_{15}H_{18}O_3$

[分子量] 246.305

[基原] *Artemisia vulgaris*

[性状]ガム

[比旋光度]: $[\alpha]_D^{25}$ -80 (c, 0.36 in CHCl₃)



-----文献-----

Marco, J.A. et al., Phytochemistry, 1991, 30, 2403, (分離, H-NMR, C13-NMR)

Marco, J.A. et al., Magn. Reson. Chem., 1992, 30, 678, (C13-NMR)

§ Santolina alcohol; (S)-form, Ac

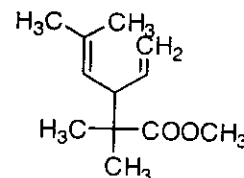
[CAS No.] 79507-88-3

[化合物分類]テルペノイド (Irregular acyclic monoterpenoids)

[構造式]

[分子式] $C_{12}H_{20}O_2$

[分子量] 196.289

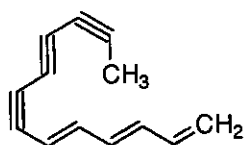


-----文献-----

Fujita, A. et al., CA, 1954, 48, 3252, (分離)
Dhar, D.N. et al., Planta Med., 6th Ed., 1976, 29, 91, (分離)

§ 1,3,5-Tridecatriene-7,9,11-triene; (3E,5Z)-form

[CAS No.] 126381-91-7
[化合物分類] 脂肪族化合物 (Acetylenic hydrocarbons)
[構造式]
[分子式] C₁₃H₁₀
[分子量] 166.222
[基原] 次の植物から分離: *Artemisia vulgaris*

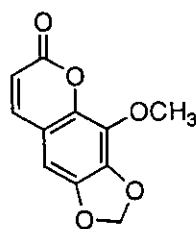


-----文献-----

Bohlmann, F. et al., Chem. Ber., 1962, 95, 1320; 1973, 106, 1328, (分離, UV, IR, H-NMR)
David, D. et al., Phytochemistry, 1974, 13, 455, (分離, 構造決定)
Kenichi, I. et al., Agric. Biol. Chem., 1975, 39, 1103, (分離)
Wallnoefer, B. et al., Phytochemistry, 1989, 28, 2687, (分離, H-NMR)
Manns, D. et al., J. Nat. Prod., 1992, 55, 29, (Annuldiepoxide)

§ 6,7,8-Trihydroxy-2H-1-benzopyran-2-one; 6,7-Methylene, 8-Me ether

[化学名・別名] 8-Methoxy-6,7-methylenedioxy coumarin
[CAS No.] 81558-03-4
[化合物分類] ベンゾピラノイド (6,7,8-Trioxigenated coumarins)
[構造式]
[分子式] C₁₁H₈O₅
[分子量] 220.181
[基原] 次の植物から分離: *Artemisia sacrorum*, *Artemisia vulgaris*, *Asterolasia trymaloides*
[性状] 結晶 (EtOAc/toluene)
[融点] Mp 200-202 °C

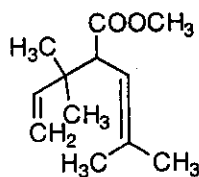


-----文献-----

Stefanovic, M. et al., CA, 1982, 96, 177968, (8-Methoxy-6,7-methylenedioxy coumarin)
Zhang, D. et al., Zhongcaoyao, 1989, 20, 487; CA, 112, 175635, (8-Methoxy-6,7-methylenedioxy coumarin)
Wu, T.-S. et al., Bioorg. Med. Chem., 2001, 9, 77-83, (Artemicapin C)

§ 3,3,6-Trimethyl-1,5-heptadien-4-ol; (ξ)-form, Propanoyl

[化学名・別名] Artemisyl propionate
[CAS No.] 79507-84-9
[化合物分類] テルペノイド (Irregular acyclic monoterpenoids)
[構造式]
[分子式] C₁₉H₂₂O₂
[分子量] 210.316
[基原] *Artemisia vulgaris*

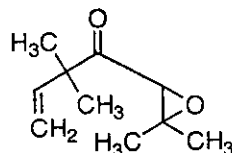


-----文献-----

Epstein, W.W. et al., Phytochemistry, 1973, 12, 737, (分離)
Grandi, R. et al., Phytochemistry, 1976, 15, 1770, (分離)
Segal, R. et al., Phytochemistry, 1980, 19, 2761, (分離, 成書)
Näf-Müller, R. et al., Helv. Chim. Acta, 1981, 64, 1424, (propionate, 分離)

§ 3,3,6-Trimethyl-1,5-heptadien-4-one; 5,6-Epoxyde

[化学名・別名] 5,6-Epoxy-3,3,6-trimethyl-1-hepten-4-one. 1-(3,3-Dimethyloxiranyl)-2,2-dimethyl-3-buten-1-one (CAS名). Epoxyartemisia ketone
[CAS No.] 79507-83-8
[化合物分類] テルペノイド (Irregular acyclic monoterpenoids)
[構造式]
[分子式] C₁₀H₁₆O₂
[分子量] 168.235
[基原] *Artemisia vulgaris*
[性状] オイル



Grandi, R. et al., *Phytochemistry*, 1976, 15, 1770, (分離)
Segal, R. et al., *Phytochemistry*, 1980, 19, 2761, (分離, 成書)
Näf-Müller, R. et al., *Helv. Chim. Acta*, 1981, 64, 1424, (propionate, 分離)

§ 3,3,6-Trimethyl-1,5-heptadien-4-one; 5,6-Epoxyde

[化学名・別名] 5,6-Epoxy-3,3,6-trimethyl-1-hepten-4-one. 1-(3,3-Dimethyloxiranyl)-2,2-dimethyl-3-buten-1-one (CAS名). Epoxyartemisia ketone
[CAS No.] 79507-83-8

[化合物分類] テルペノイド (Irregular acyclic monoterpenoids)

[構造式]

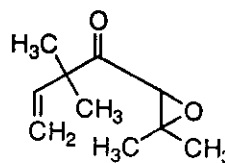
[分子式] $C_{10}H_{16}O_2$

[分子量] 168.235

[基原] *Artemisia vulgaris*

[性状] オイル

[沸点] Bp_{10} 75 °C



-----文献-----

Zalkow, L.H. et al., *J.O.C.*, 1964, 29, 2786, (分離, 構造決定)

§ 2,5,5-Trimethyl-1,3,6-heptatriene; (E)-form

[化学名・別名] Artemisiatriene

[CAS No.] 18383-70-5

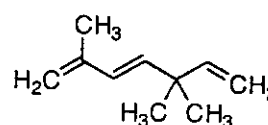
[化合物分類] テルペノイド (Irregular acyclic monoterpenoids)

[構造式]

[分子式] $C_{10}H_{16}$

[分子量] 136.236

[基原] *Artemisia vulgaris*



-----文献-----

Thomas, A.F. et al., *Helv. Chim. Acta*, 1971, 54, 1822-1845, (合成法)

Näf-Müller, R. et al., *Helv. Chim. Acta*, 1981, 64, 1424-1430, (分離, H-NMR)

§ 12-Ursen-3-ol; 3 β-form

[化学名・別名] α-Amyrin. α-Amyrenol. Viminalol

[CAS No.] 638-95-9

[化合物分類] テルペノイド (Ursane triterpenoids)

[構造式]

[分子式] $C_{30}H_{50}O$

[分子量] 426.724

[基原] 次の植物を含む多くの属: *Artemisia vulgaris*, *Lactuca denticulata*. かなり広範囲に分布する

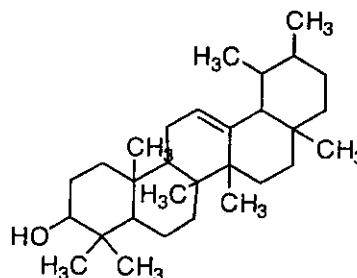
[用途] Trypsin and chymotrypsin inhibitor. 抗腫瘍剤

[性状] 結晶 (EtOH)

[融点] Mp 186 °C

[比旋光度]: $[\alpha]_D^{25} +83.5$ ($CHCl_3$)

[その他のデータ] 薬理的活性な異性体



-----文献-----

Bryce, T.A. et al., *Phytochemistry*, 1967, 6, 727, (分離)

Karrer, W. et al., *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd edn., Birkhäuser Verlag, Basel, 1972, No. 2011, (生育)

§ 12-Ursen-3-ol; 3 β-form, Ac

[CAS No.] 863-76-3

[化合物分類] テルペノイド (Ursane triterpenoids)

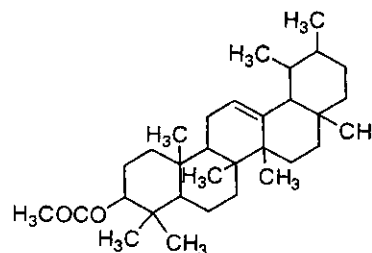
[構造式]

[分子式] $C_{32}H_{52}O_2$

[分子量] 468.762

[基原] 次の植物を含む多くの属: *Artemisia vulgaris*

[性状] 結晶 (petrol)



[CAS No.] 3306-40-9

[化合物分類] 含酸素複素環式化合物 (Spiroketal), 脂肪族化合物 (Miscellaneous acetylenes)

[構造式]

[分子式] $C_{14}H_{14}O_2$

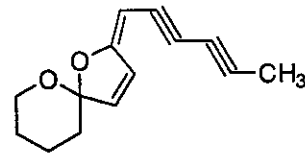
[分子量] 214.263

[基原] *Chrysanthemum* spp., *Artemisia princeps*, また *Tanacetum vulgare* の根

[融点] Mp 83 °C

[比旋光度]: $[\alpha]_D^{20} +29$ (c, 2.0 in Et₂O)

[その他のデータ] また樹脂状の液体と記載されている



-----文献-----

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

§ 2-(2,4-Hexadiynylidene)-1,6-dioxaspiro[4.5]dec-3-ene; (Z)-form

[CAS No.] 5535-87-5

[化合物分類] 含酸素複素環式化合物 (Spiroketal), 脂肪族化合物 (Miscellaneous acetylenes)

[構造式]

[分子式] $C_{14}H_{14}O_2$

[分子量] 214.263

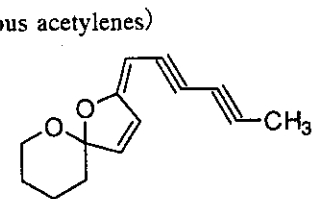
[基原] *Chrysanthemum arcticum* の根, *Chrysanthemum serotinum*,

santhemum pyrethrum, *Artemisia princeps*

[融点] Mp 78 °C

[比旋光度]: $[\alpha]_D 0$

[その他のデータ] 両方の異性体が樹脂状の液体と記載されている



Chry

-----文献-----

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

§ 1,3(15),6-Humulatriene

[化学名・別名] 1,8,8-Trimethyl-5-methylene-1,6-cycloundecadiene. γ -Humulene. Isohumulene

[CAS No.] 26259-79-0

[化合物分類] テルペノイド (Humulane sesquiterpenoids)

[構造式]

[分子式] $C_{15}H_{24}$

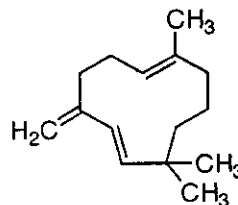
[分子量] 204.355

[基原] *Artemisia princeps*, *Othonna coronopifolia*

[性状] オイル

[沸点] B_{p0.1} 90 °C

[販売元] Fluka:53678



-----文献-----

Bohlmann, F. et al., Chem. Ber., 1974, 107, 3928, (分離, C13-NMR)

Yano, K. et al., Phytochemistry, 1974, 13, 1207, (分離)

§ 3-Oxo-1,4,11(13)-eudesmatrien-12,8-olide; 8 β -form

[化学名・別名] Yomogin

[CAS No.] 10067-18-2

[化合物分類] テルペノイド (12,8-Eudesmanolides and furanoeudesmane sesquiterpenoids)

Bohlmann, F. et al., Chem. Ber., 1974, 107, 3928, (分離, C13-NMR)
Yano, K. et al., Phytochemistry, 1974, 13, 1207, (分離)

§ 3-Oxo-1,4,11 (13)-eudesmatrien-12,8-olide; 8 β -form

[化学名・別名] Yomogin

[CAS No.] 10067-18-2

[化合物分類] テルペノイド (12,8-Eudesmanolides and furanoeudesmane sesquiterpenoids)

[構造式]

[分子式] $C_{15}H_{16}O_3$

[分子量] 244.29

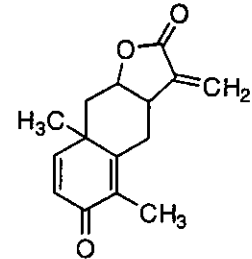
[基原] *Artemisia princeps*

[用途] 酸化窒素生産抑制因子. Shows degranulation inhibiting activity

[性状] 結晶 (EtOAc)

[融点] Mp 201-202 °C

[比旋光度]: $[\alpha]_D^{20}$ -88 (c, 0.11 in $CHCl_3$)



-----文献-----

Geissman, T.A., J.O.C., 1966, 31, 2523, (分離, 構造決定)

Banerjee, A.K. et al., Tetrahedron, 1993, 49, 4761, (合成法, レビュー)

Ryu, S.-Y. et al., Planta Med., 2000, 66, 171-173, (活性)

- § § キク科ヤブヨモギ (*Artemisia rubripes* Nakai) の全草, 花または葉。
本調査研究では、成分に関する文献はなかった。

*****マシュマロー (Marshmallow) *****

§ § アオイ科ビロードアオイ (*Althaea officinalis* L.) の花, 葉または根。

§ 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

[CAS No.] 71562-84-0

[化合物分類] 炭水化物 (Glycuronic acids), 炭水化物 (Oligosaccharides)

[構造式]

[分子式] $C_{36}H_{54}O_{33}$

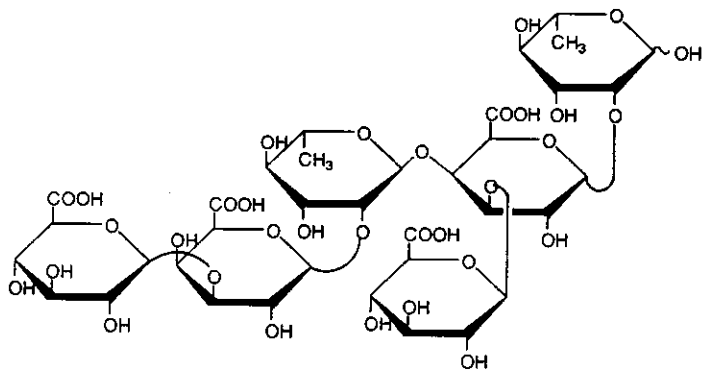
[分子量] 1014.803

[基原] 次の植物から分離: *Abelmoschus manihot* の根の加水分解物質, *Althaea officinalis*, *Hydrangia paniculata* の内皮

[性状] 粉末

[融点] Mp 172-176 °C で分解

[比旋光度]: $[\alpha]_D^{20}$ +81.4 (c, 1.4 in H_2O)



-----文献-----

Tomoda, M. et al., Chem. Pharm. Bull., 1977, 25, 1357; 2910; 1979, 27, 1651; 1980, 28, 824

§ 3',4',5,7,8-Pentahydroxyflavone; 8-O-[β -D-Glucopyranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]

§ 3',5,7,8-Tetrahydroxy-4'-methoxyflavone; 8-O-β-D-Glucopyranoside

[CAS No.] 80756-87-2

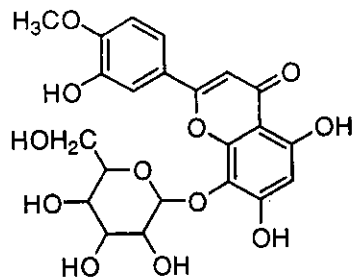
[化合物分類]フラボノイド (Flavones; 5 × O-置換基)

[構造式]

[分子式] C₂₂H₂₂O₁₂

[分子量] 478.409

[基原] 次の植物から分離: *Althaea officinalis*



-----文献-----

Lenherr, A. et al., *Phytochemistry*, 1984, 23, 2343-2345; 1987, 26, 1185-1188, (7-alloxyglucosides)

Gudej, J., *Acta Pol. Pharm.*, 1985, 42, 192-198, (8-glucosides)

Manez, S. et al., *Planta Med.*, 1986, 52, 525, (7-alloxyglucoside)

Billeter, M. et al., *Phytochemistry*, 1991, 30, 987-990, (8-glucuronoside)

Venturella, P. et al., *Phytochemistry*, 1995, 38, 527-530, (7-acetyldigluconoside)

Tezuka, Y. et al., *Helv. Chim. Acta*, 1999, 82, 408-417, (8-glucuronoside Me ester)

§ 3',5,7,8-Tetrahydroxy-4'-methoxyflavone; 8-O-β-D-Glucopyranoside, 3'-O-sulfate

[CAS No.] 131622-65-6

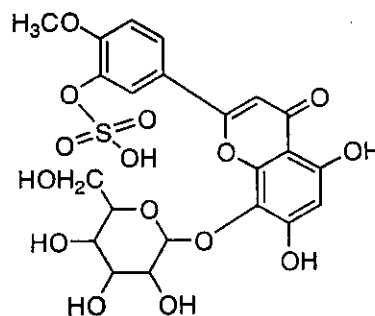
[化合物分類]フラボノイド (Flavones; 5 × O-置換基)

[構造式]

[分子式] C₂₂H₂₂O₁₅S

[分子量] 558.473

[基原] 次の植物から分離: *Althaea officinalis* (as K salt)



-----文献-----

Lenherr, A. et al., *Phytochemistry*, 1984, 23, 2343-2345; 1987, 26, 1185-1188, (7-alloxyglucosides)

Gudej, J., *Acta Pol. Pharm.*, 1985, 42, 192-198, (8-glucosides)

Manez, S. et al., *Planta Med.*, 1986, 52, 525, (7-alloxyglucoside)

Billeter, M. et al., *Phytochemistry*, 1991, 30, 987-990, (8-glucuronoside)

Venturella, P. et al., *Phytochemistry*, 1995, 38, 527-530, (7-acetyldigluconoside)

Tezuka, Y. et al., *Helv. Chim. Acta*, 1999, 82, 408-417, (8-glucuronoside Me ester)

§ 5,7,8-Trihydroxy-4'-methoxyflavone; 8-O-(2-O-Sulfo-β-D-glucopyranoside)

[CAS No.] 136516-95-5

[化合物分類]フラボノイド (Flavones; 4 × O-置換基)

[構造式]

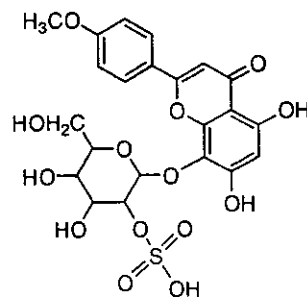
[分子式] C₂₂H₂₂O₁₄S

[分子量] 542.473

[基原] 次の植物の根から分離: *Althaea officinalis*

[性状] 青白い黄色の針状結晶 (MeOH) (as K salt)

[融点] Mp 180 °Cで分解 (K salt)



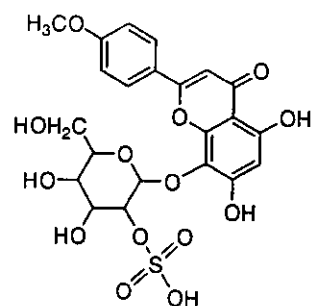
-----文献-----

Rao, K.V. et al., *Proc. - Indian Acad. Sci., Sect. A*, 1948, 28, 210, (合成法)

Komissarenko, N.F. et al., *Khim. Prir. Soedin.*, 1978, 14, 521; *Chem. Nat. Compd. (Engl. Transl.)*, 1978, 14, 445, (分離, H-NMR)

Markham, K.R. et al., *Phytochemistry*, 1979, 18, 611, (分離)

[分子式] $C_{22}H_{22}O_{14}S$
 [分子量] 542.473
 [基原] 次の植物の根から分離: *Althaea officinalis*
 [性状] 青白い黄色の針状結晶 (MeOH) (as K salt)
 [融点] Mp 180 °Cで分解 (K salt)



-----文献-----

- Rao, K.V. et al., Proc. - Indian Acad. Sci., Sect. A, 1948, 28, 210, (合成法)
 Komissarenko, N.F. et al., Khim. Prir. Soedin., 1978, 14, 521; Chem. Nat. Compd. (Engl. Transl.), 1978, 14, 445, (分離, H-NMR)
 Markham, K.R. et al., Phytochemistry, 1979, 18, 611, (分離)
 Iinuma, M. et al., Yakugaku Zasshi, 1980, 100, 657, (分離)
 Chari, M.M. et al., Phytochemistry, 1981, 20, 1977, (分離)
 Horie, T. et al., Bull. Chem. Soc. Jpn., 1983, 56, 3773, (合成法)
 Voirin, B., Phytochemistry, 1983, 22, 2107, (UV)
 Gudej, J., Planta Med., 1991, 57, 284, (8-sulfoglucoside)
 Chen, Z.-T. et al., Heterocycles, 1994, 38, 1399, (8-glucuronides)
 Sharaf, M. et al., Fitoterapia, 1998, 69, 47-48, (8-glucoside)
 Kamiya, K. et al., Phytochemistry, 2001, 57, 297-301, (8-glucuronides, 分離, H-NMR, C13-NMR)

§ § アオイ科ハナアオイ (*Althaea rosea* (L.) Cavanilles) の花, 葉または根。

§ 3,4',5,7,8-Pentahydroxyflavone; 8-O-β

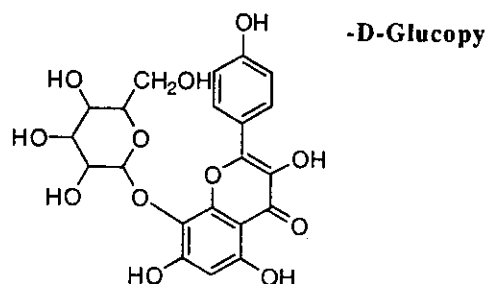
ranoside

[化学名・別名] Herbacin †

[CAS No.] 11021-22-0

[化合物分類] フラボノイド (Flavonols; 5 × O-置換基)

[構造式]



[分子式] $C_{27}H_{26}O_{12}$

[分子量] 464.382

[基原] 次の植物から分離: *Calluna vulgaris*, *Limonium sinuatum*, *Althaea rosea*, その他の植物属

[融点] Mp 212-214 °C

-----文献-----

- Olechnowicz-Stepien, W. et al., Pol. J. Chem. (Rocz. Chem.), 1978, 52, 2167, (8-gentiobioside)

*****マジョラム (Marjoram) *****

§ § シソ科ハナハッカ (*Majorana hortensis* Moench) の花または茎葉。

§ 3-Hydroxy-12-ursen-28-oic acid; 3 β-form, 3-O-[β-D-Glucopyranosyl-(1 → 4)-β-D-xylopyranoside]

[CAS No.] 169303-86-0

[化合物分類] テルペノイド (Ursane triterpenoids)

[構造式]

[分子式] $C_{41}H_{66}O_{12}$

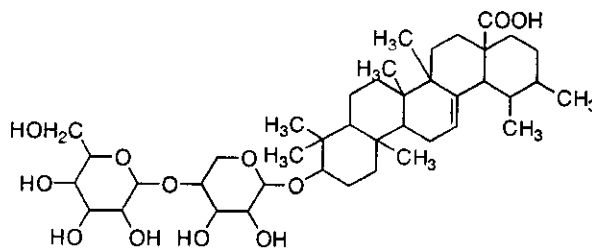
[分子量] 750.965

[基原] *Majorana hortensis*

[性状] 結晶 (MeOH)

[融点] Mp 286 °C

[比旋光度]: $[\alpha]_D^{25} +19.7$ (c, 1 in Py)



-----文献-----

Horowitz, R.M. et al., J.O.C., 1956, 21, 1184, (分離)
 Plouvier, V., C. R. Hebd. Seances Acad. Sci. Ser. D, 1966, 263, 439, (分離, 構造決定)

§ 4',5,6-Trihydroxy-3',7,8-trimethoxyflavone

[化学名・別名] 5,6-Dihydroxy-2-(4-hydroxy-3-methoxyphenyl)-7,8-dimethoxy-4H-1-benzopyran-4-one. Majoranin. Thymonin

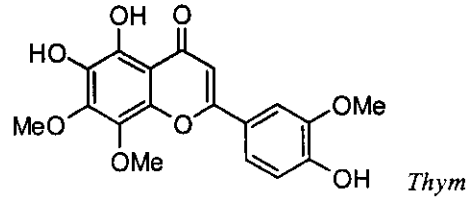
[CAS No.] 76844-67-2
 [化合物分類] フラボノイド (Flavones; 6 × O-置換基)

[構造式]
 [分子式] C₁₈H₁₆O₈
 [分子量] 360.32

[基原] 次の植物から分離: *Majorana hortensis*, *Thymus satureioides*,
us vulgaris

[融点] Mp 225-226 °C

[その他のデータ] Majoranin formerly given struct. of Sudachitin



-----文献-----

Van den Brouke, C.O. et al., *Phytochemistry*, 1982, 21, 2581, (分離)
 Voirin, B., *Phytochemistry*, 1983, 22, 2107; 1984, 23, 2973, (分離, UV)
 Voirin, B. et al., *Planta Med.*, 1985, 523, (分離)
 Bosabalidis, A.M. et al., *Phytochemistry*, 1998, 49, 1549-1553, (分離, UV, H-NMR, Mass)

§ § シソ科ポットマヨラナ (*Majorana onites* (L.) Bentham (*Origanum onites* Linne)) の花または茎葉。
 本調査研究では、成分に関する文献はなかった。

*****マスティック (Mastic) *****

§ § ウルシ科マスティクス (*Pistacia lentiscus* L.) の樹脂。

§ 28-Nor-20(29)-lupen-3-one

[化合物分類] テルペノイド (Nor-, friedo- and secolupane triterpenoids)

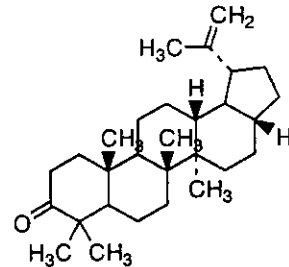
[構造式]
 [分子式] C₂₉H₄₆O
 [分子量] 410.682

[基原] ゴムマスティック, *Pistacia lentiscus* の樹脂

[性状] 結晶 (Et₂O)

[融点] Mp 160-161 °C

[比旋光度]: [α]_D +69.7 (c, 0.8 in CHCl₃)



-----文献-----

Marner, F.-J. et al., *Phytochemistry*, 1991, 30, 3709, (分離, H-NMR, C13-NMR)

§ 28-Nor-12-oleanen-3-ol; 3 β-form

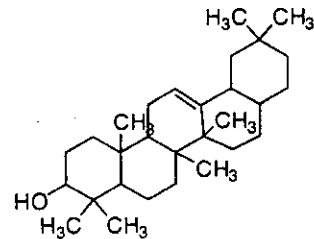
[化合物分類] テルペノイド (Nor-, seco- and abeooleanane triterpenoids)

[構造式]

[分子式] C₂₉H₄₆O

[分子量] 412.698

[基原] ゴムマスティック, *Pistacia lentiscus* の樹脂

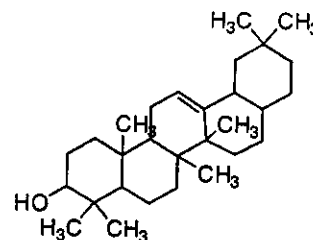


-----文献-----

Corbet, P. et al., *J.A.C.S.*, 1980, 102, 1171, (分離, H-NMR, C13-NMR)
 Marner, F.-J. et al., *Phytochemistry*, 1991, 30, 3709, (分離, H-NMR, C13-NMR, 結晶構造)

[化合物分類]テルペノイド (Nor-, seco- and abeooleanane triterpenoids)
[構造式]

[分子式] $C_{29}H_{48}O$
[分子量] 412.698
[基原] ゴムマステック, *Pistacia lentiscus* の樹脂

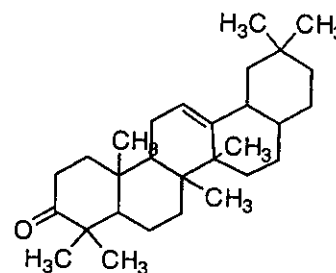


-----文献-----

Corbet, P. et al., J.A.C.S., 1980, 102, 1171, (分離, H-NMR, C13-NMR)
Marner, F.-J. et al., Phytochemistry, 1991, 30, 3709, (分離, H-NMR, C13-NMR, 結晶構造)

§ 28-Nor-12-oleanen-3-ol; 3 β -form, 3-Ketone

[化学名・別名] 28-Nor-12-oleanen-3-one
[CAS No.] 73493-60-4
[化合物分類]テルペノイド (Nor-, seco- and abeooleanane triterpenoids)
[構造式]
[分子式] $C_{29}H_{46}O$
[分子量] 410.682
[基原] *Pistacia lentiscus* の樹脂, *Bornean sediments*
[性状] 結晶 (MeOH)
[融点] Mp 191-193 °C
[比旋光度]: $[\alpha]_D^{25} +184.5$ (c, 1.7 in $CHCl_3$)



-----文献-----

Corbet, P. et al., J.A.C.S., 1980, 102, 1171, (分離, H-NMR, C13-NMR)
Marner, F.-J. et al., Phytochemistry, 1991, 30, 3709, (分離, H-NMR, C13-NMR, 結晶構造)

§ 3-Phenylpropanal

[化学名・別名] Benzenepropanal (CAS 名). Hydrocinnamaldehyde. 3-Phenylpropionaldehyde. FEMA 2887
[CAS No.] 104-53-0
[化合物分類] 単環芳香族 (Simple phenylpropanoids)
[構造式] $PhCH_2CH_2CHO$
[分子式] $C_9H_{10}O$
[分子量] 134.177
[基原] Present in genus *Cinnamomum*. また *Myrceugenia exsucca*, *Pistacia lentiscus*, *Heracleum candicans* から得られる
[用途] 香水または香料原料
[性状] 液体 with hyacinth odour and green, warm flavour
[沸点] Bp 221-224 °C. Bp₁₅ 104-105 °C
[濃度] $d_{20}^{15} 1.02$
[屈折率] $n_D^{20} 1.523$
[傷害・毒性] 皮膚を刺激する
[化学物質毒性データ総覧 (RTECS) 登録番号] MW4890000
[販売元] Aldrich:W28870-5; Fluka:56660; Rare Chemicals Library:S58092-9; Sigma:P7282

-----文献-----

Cornils, B. et al., Chem.-Ztg., 1974, 98, 596, (レビュー)
Hanna, P.E. et al., J. Med. Chem., 1982, 25, 1189, (合成法, oxime)
Lewis, R.J., Food Additives Handbook, Van Nostrand Reinhold International, New York, 1989, HHP000
Curran, D.P. et al., Synthesis, 1992, 123, (合成法, 2,4-DNP, H-NMR, IR)
Lewis, R.J., Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold, 1992, HHP000

生体影響物質 : ***RTECS (化学物質毒性データ) *** 一時刺激物質.

健康障害に関するデータ

皮膚/眼の刺激に関するデータ

<<試験方法>> 標準ドライズ (Draize) 試験法.

§ 1,4-Poly-β-myrcene; cis-form

[構造式]有効な構造式はない

[分子式]C₁₀H₁₆

[分子量]136.236

[基原]Polymer from mastic resin from *Pistacia lentiscus*

-----文献-----

Van den Berg, K.J. et al., Tet. Lett., 1998, 39, 2645-2648, (分離, Mass, H-NMR, C13-NMR)

§ 13,17,21-Polypodatriene-3,8-diol; (3β,8α)-form

[化合物分類]テルペノイド (Polypodane triterpenoids)

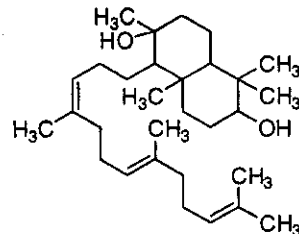
[構造式]

[分子式]C₃₀H₅₂O₂

[分子量]444.74

[基原]*Pistacia lentiscus* の樹脂

[性状]ガム



-----文献-----

Boar, R.B. et al., J.A.C.S., 1984, 106, 2476

Marner, F.-J. et al., Phytochemistry, 1991, 30, 3709, (分離, H-NMR, C13-NMR, 誘導体)

§ 13,17,21-Polypodatriene-3,8-diol; (3β,8α)-form, 3-Ketone

[化学名・別名]8-Hydroxy-13,17,21-polypodatrien-3-one

[化合物分類]テルペノイド (Polypodane triterpenoids)

[構造式]

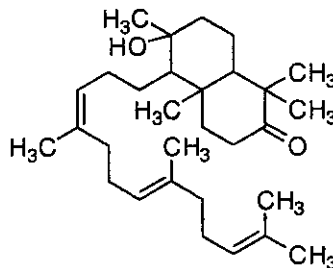
[分子式]C₃₀H₅₀O₂

[分子量]442.724

[基原]*Pistacia lentiscus* の樹脂

[性状]オイル

[比旋光度]:[α]_D +11 (c, 4.7 in CH₂Cl₂)



-----文献-----

Boar, R.B. et al., J.A.C.S., 1984, 106, 2476

Marner, F.-J. et al., Phytochemistry, 1991, 30, 3709, (分離, H-NMR, C13-NMR, 誘導体)

*****マソイ (Massoi) *****

§ クスノキ科マソイ (*Cryptocarya massoia* (Becc.) Kosterm) の樹皮。

§ 5,6-Dihydro-6-pentyl-2H-pyran-2-one; (R)-form

[CAS No.]51154-96-2

[化合物分類]含酸素複素環式化合物 (Pentanolides)

[構造式]

[分子式]C₁₀H₁₆O₂

[分子量]168.235

[基原]*Cryptocarya massoia* and of formicine ants

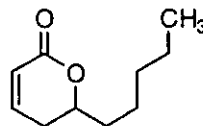
[用途]植物毒. 抗カビ剤

[性状]オイル

[沸点]Bp_{0.5} 103-104 °C

[比旋光度]:[α]_D²⁰ -99.4 (c, 1 in CHCl₃)

[化学物質毒性データ総覧 (RTECS) 登録番号]UQ0550000



-----文献-----

Hashizume, T. et al., Agric. Biol. Chem., 1968, 32, 1306, (分離)

Cavill, G.W.K. et al., Aust. J. Chem., 1968, 21, 2819, (分離)

Crombie, L. et al., J.C.S. (C), 1968, 2852, (構造)

***RTECS (化学物質毒性データ) ***

健康障害に関するデータ

急性毒性に関するデータ

<<試験方法>> LD50 試験 (50%致死量試験).

[基原] *Cryptocarya massoia* and of formicine ants
[用途] 植物毒. 抗カビ剤
[性状] オイル
[沸点] $B_{p0.5}$ 103-104 °C
[比旋光度]: $[\alpha]_D^{20}$ -99.4 (c, 1 in $CHCl_3$)
[化学物質毒性データ総覧 (RTECS) 登録番号] UQ0550000

-----文献-----

Hashizume, T. et al., *Agric. Biol. Chem.*, 1968, 32, 1306, (分離)
Cavill, G.W.K. et al., *Aust. J. Chem.*, 1968, 21, 2819, (分離)
Crombie, L. et al., *J.C.S. (C)*, 1968, 2852, (構造)

***RTECS (化学物質毒性データ) ***
健康障害に関するデータ
急性毒性に関するデータ

<<試験方法>> LD50 試験 (50%致死量試験).
曝露経路 : 経口投与.
被験動物 : げっ歯類-マウス.
投与量・期間 : 1890 mg/kg
毒性影響 : [行動] 睡眠時間の変化 (立ち直り反射の変化を含む).
[行動] 痙攣または発作閾値への影響.

参照文献

Arzneimittel-Forschung. Drug Research. (Editio Cantor Verlag, Postfach 1255, W-7960 Aulendorf, Fed. Rep. Ger.) 14,40,1964

§ 5-Hydroxydecanoic acid

[化学名・別名] 5-Hydroxycapric acid
[CAS No.] 624-00-0
[化合物分類] 脂肪族化合物 (Saturated unbranched carboxylic acids and lactones)
[構造式] $H_3C(CH_2)_4CH(OH)(CH_2)_3COOH$
[分子式] $C_{10}H_{20}O_3$
[分子量] 188.266
[基原] massory bark (*Cryptocarya massoia*)

-----文献-----

Meyer, T.M., *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1940, 59, 191, (分離)
Wyatt, C.J. et al., *Lipids*, 1967, 2, 208, (Mass., ガスクロマト)

*****マタタビ (Matatabi, Silver vine) *****

§ § マタタビ科マタタビ (*Actinidia polygama* Planchon) の果実または茎葉.

§ Actinidialactone

[CAS No.] 76729-80-1
[化合物分類] テルペノイド (Iridoid monoterpenoids)
[構造式]
[分子式] $C_{10}H_{14}O_2$
[分子量] 166.219
[基原] *Actinidia polygama*
[性状] オイル
[比旋光度]: $[\alpha]_D^{25}$ -18.3 (c, 1.15 in $CHCl_3$)

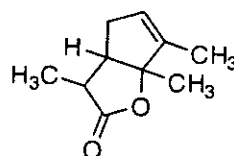


-----文献-----

Sakai, T. et al., *Bull. Chem. Soc. Jpn.*, 1980, 53, 3683, (分離, H-NMR)

§ Actinidialactone; 4-Epimer

[化学名・別名] Isoactinidialactone
[CAS No.] 76792-75-1
[化合物分類] テルペノイド (Iridoid monoterpenoids)
[構造式]
[分子式] $C_{10}H_{14}O_2$



Valeriana officinalis (マタタビ科 (サルナシ科), ノウゼンカズラ科, オミナエシ科). Constit. of defensive secretions of dolichoderine ants (*Tapinoma melanocephalum*, *Tapinoma erraticum*)

[用途] Powerful attractant for Felidae (cats)

[性状] オイル

[沸点] Bp, 100-103 °C

[比旋光度]: $[\alpha]_D^{25}$ -7.2 (CHCl₃)

-----文献-----

Sakan, T. et al., Bull. Chem. Soc. Jpn., 1959, 32, 315; 1155; 1960, 33, 712, (UV, IR, 分離, 構造決定, 合成法)

Johnson, R.D. et al., Phytochemistry, 1971, 10, 3334, (分離, Mass)

§ Actinidiolide; (R)-form

[化合物分類] テルペノイド (Apocarotenoids)

[構造式]

[分子式] C₁₁H₁₄O₂

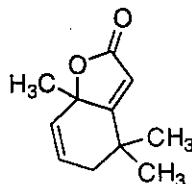
[分子量] 178.23

[基原] *Actinidia polygama*

[用途] ネコに対して生理学的活性を示す

[性状] オイル

[比旋光度]: $[\alpha]_D^{25}$ +7.7 (natural). $[\alpha]_D^{25}$ -149.9 (CHCl₃) (synthetic)



-----文献-----

Sakan, T. et al., Tet. Lett., 1967, 1623, (分離)

§ Actinidol

[化学名・別名] 5,8-Epoxy-3,6-megastigmadien-9-ol

[CAS No.] 17092-93-2

[化合物分類] テルペノイド (Megastigmane norterpeneoids)

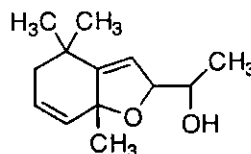
[構造式]

[分子式] C₁₃H₂₀O₂

[分子量] 208.3

[基原] *Actinidia polygama*

[性状] 不安定な液体



-----文献-----

Sakan, T. et al., Tet. Lett., 1967, 1623, (分離)

Dimitriadis, E. et al., Phytochemistry, 1985, 24, 767-770, (分離, H-NMR, C13-NMR, Mass)

§ Allomatatabiol

[化学名・別名] 1,3,4,4 a,5,6-Hexahydro-4,7-dimethylcyclopenta [c] pyran-6-ol (CAS 名)

[CAS No.] 34258-00-9

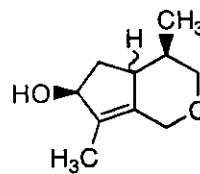
[化合物分類] テルペノイド (Iridoid monoterpeneoids)

[構造式]

[分子式] C₁₀H₁₆O₂

[分子量] 168.235

[基原] *Actinidia polygama*. Component of Mu Tian Liao



-----文献-----

Sakan, T. et al., CA, 1971, 75, 126574g

§ Dehydroiridodial

[化学名・別名] Epichrysolidial

[CAS No.] 66537-23-3

[関連 CAS No.] 73052-87-6, 76375-87-6

[化合物分類] テルペノイド (Iridoid monoterpeneoids)

[構造式]

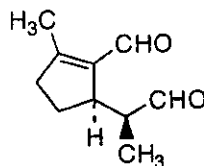
[分子式] C₁₀H₁₄O₂

[分子量] 166.219

[基原] *Actinidia polygama*

[性状] オイル

[比旋光度]: $[\alpha]_D^{25}$ +80 (c. 1.0 in CHCl₃)



[基原] *Actinidia polygama*. Component of Mu Tian Liao

文献

Sakan, T. et al., CA, 1971, 75, 126574g

§ Dehydroiridodial

[化学名・別名] Epichrysolidial

[CAS No.] 66537-23-3

[関連 CAS No.] 73052-87-6, 76375-87-6

[化合物分類] テルペノイド (Iridoid monoterpenoids)

[構造式]

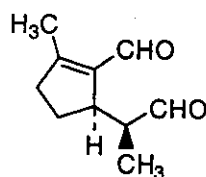
[分子式] $C_{10}H_{14}O_2$

[分子量] 166.219

[基原] *Actinidia polygama*

[性状] オイル

[比旋光度]: $[\alpha]_D^{25} +80$ (c, 1.0 in $CHCl_3$)



文献

Yoshihara, K. et al., Chem. Lett., 1978, 433, (分離)

Sakai, T. et al., Tetrahedron, 1980, 36, 3115, (絶対構造)

§ Dehydroiridodiol

[CAS No.] 76792-78-4

[関連 CAS No.] 73088-69-4, 76792-79-5

[化合物分類] テルペノイド (Iridoid monoterpenoids)

[構造式]

[分子式] $C_{10}H_{18}O_2$

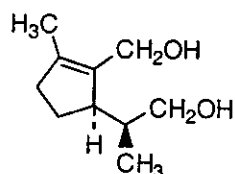
[分子量] 170.251

[基原] *Actinidia polygama*

[用途] ネコと雄の成虫のクサカゲロウを引きつける

[性状] オイル

[比旋光度]: $[\alpha]_D^{20} -16.7$ (c, 1.00 in $CHCl_3$)



文献

Sakai, T. et al., Tetrahedron, 1980, 36, 3115, (絶対構造)

§ Dihydronepetalactone

[CAS No.] 17672-81-0

[化合物分類] テルペノイド (Iridoid monoterpenoids)

[構造式]

[分子式] $C_{10}H_{16}O_2$

[分子量] 168.235

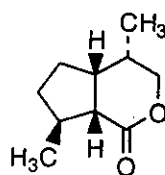
[基原] *Actinidia polygama*, *Nepeta cataria*

[用途] ネコを引きつける

[性状] オイル

[沸点] Bp, 107-110 °C

[比旋光度]: $[\alpha]_D^{25} +72$



文献

Sakan, T. et al., Tet. Lett., 1965, 4097, (分離)

Nangia, A. et al., Tetrahedron, 1997, 53, 14507-14545, (レビュー, 合成法)

§ Dihydronepetalactone; 4-Epimer

[化学名・別名] Isodihydronepetalactone

[CAS No.] 17672-96-7

[化合物分類] テルペノイド (Iridoid monoterpenoids)

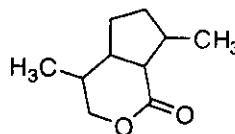
[構造式]

[分子式] $C_{10}H_{16}O_2$

[分子量] 168.235

[基原] *Actinidia polygama*, *Nepeta cataria*

[用途] ネコを引きつける



[性状] オイル
[沸点] Bp₁₆ 67 °C
[比旋光度]: $[\alpha]_D^{23}$ -147.3 (c, 1.03 in CHCl₃)

-----文献-----

Isoe, S. et al., Tet. Lett., 1968, 5319, (分離, 合成法)
Sakai, T. et al., Tetrahedron, 1980, 36, 3115, (絶対構造)

§ Matatabiol

[化学名・別名] 2,3,3a,4-Tetrahydro-3,6-dimethyl-6aH-cyclopenta[b]furan-6a-methanol (CAS 名)

[CAS No.] 34257-97-1

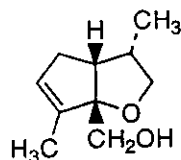
[化合物分類] テルペノイド (Miscellaneous bicyclic monoterpenoids),
テルペノイド (Other cyclopentane monoterpenoids)

[構造式]

[分子式] C₁₀H₁₆O₂

[分子量] 168.235

[基原] *Actinidia polygama*



-----文献-----

Sakan, T. et al., CA, 1971, 75, 126574g

§ Neomatatabiol

[CAS No.] 21699-53-6

[化合物分類] テルペノイド (Iridoid monoterpenoids)

[構造式]

[分子式] C₁₀H₁₈O₂

[分子量] 170.251

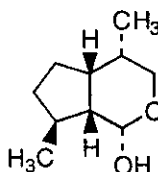
[基原] *Actinidia polygama*

[用途] 次に対する強い誘因物質: 雄のナナホシテントウ *Chrysopa septempunctata* とその他の *Chrysopa* spp.

[性状] オイル

[沸点] Bp₅ 95 °C

[比旋光度]: $[\alpha]_D^{15}$ +21.3



-----文献-----

Hyeon, S.B. et al., Tet. Lett., 1968, 5325-5326

§ Neomatatabiol; 4-Epimer

[化学名・別名] Isoneomatatabiol

[CAS No.] 34258-02-1

[化合物分類] テルペノイド (Iridoid monoterpenoids)

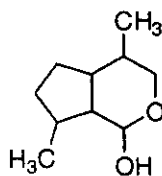
[構造式]

[分子式] C₁₀H₁₈O₂

[分子量] 170.251

[基原] *Actinidia polygama* の葉

[用途] *Chrysopa* spp. の誘因物質



-----文献-----

Hyeon, S.B. et al., Tet. Lett., 1968, 5325-5326

§ Neonepetalactone

[CAS No.] 24190-25-8

[化合物分類] テルペノイド (Iridoid monoterpenoids)

[構造式]

[分子式] C₁₀H₁₆O₂

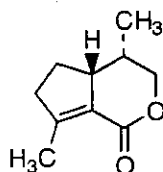
[分子量] 166.219

[基原] *Actinidia polygama*

[用途] ネコを引きつける

[性状] オイル

[比旋光度]: $[\alpha]_D^{23}$ -166.8 (c. 0.31 in CHCl₃)



-----文献-----

Wolinsky, J. et al., Tetrahedron, 1969, 25, 3767, (分離)

[用途] *Chrysopa* spp. の誘因物質

-----文献-----

Hyeon, S.B. et al., Tet. Lett., 1968, 5325-5326

§ **Neonepetalactone**

[CAS No.] 24190-25-8

[化合物分類] テルペノイド (Iridoid monoterpenoids)

[構造式]

[分子式] $C_{10}H_{14}O_2$

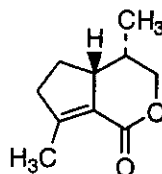
[分子量] 166.219

[基原] *Actinidia polygama*

[用途] ネコを引きつける

[性状] オイル

[比旋光度]: $[\alpha]_D^{25} -166.8$ (c, 0.31 in $CHCl_3$)



-----文献-----

Wolinsky, J. et al., Tetrahedron, 1969, 25, 3767, (分離)

Sakai, T. et al., Bull. Chem. Soc. Jpn., 1980, 53, 3683, (分離)

Sakai, T. et al., Tetrahedron, 1980, 36, 3115, (絶対構造)

§ **Neonepetalactone; 4-Epimer**

[化学名・別名] Isononepetalactone

[CAS No.] 76549-18-3

[化合物分類] テルペノイド (Iridoid monoterpenoids)

[構造式]

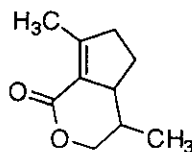
[分子式] $C_{10}H_{14}O_2$

[分子量] 166.219

[基原] *Actinidia polygama*

[性状] オイル

[比旋光度]: $[\alpha]_D -66$ ($CHCl_3$)



-----文献-----

Wolinsky, J. et al., Tetrahedron, 1969, 25, 3767, (分離)

Sakai, T. et al., Bull. Chem. Soc. Jpn., 1980, 53, 3683, (分離)

Sakai, T. et al., Tetrahedron, 1980, 36, 3115, (絶対構造)

§ **5,6,7,7a-Tetrahydro-4,4,7a-trimethyl-2(4H)-benzofuranone; (S)-form**

[CAS No.] 17092-92-1

[化合物分類] テルペノイド (Apocarotenoids)

[構造式]

[分子式] $C_{11}H_{16}O_2$

[分子量] 180.246

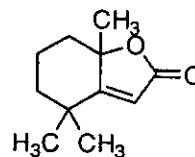
[基原] *Actinidia polygama* の葉

[用途] ネコ属に対して生理学的活性を示す

[融点] Mp 71-72 °C (40-41 °C)

[比旋光度]: $[\alpha]_D^{15} +7.1$ (natural). $[\alpha]_D^{25} +122.7$ ($CHCl_3$) (synthetic)

[その他のデータ] Not active as a fire ant pheromone



-----文献-----

Sakan, T. et al., Tet. Lett., 1967, 1623, (分離, 合成法)

Isoc, S. et al., Tet. Lett., 1972, 2517, (絶対構造)

§ 2,3,23,24-Tetrahydroxy-12-ursen-28-oic acid; (2 α ,3 α)-form, 23-Carboxylic acid

[化学名・別名] 2,3,24-Trihydroxy-12-ursene-23,28-dioic acid

[CAS No.] 143773-51-7

[化合物分類] テルペノイド (Ursane triterpenoids)

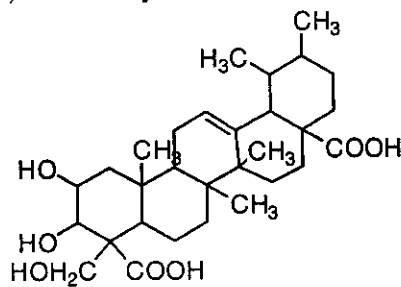
[構造式]

[分子式] $C_{30}H_{46}O_7$

[分子量] 518.689

[基原] *Actinidia polygama*

[比旋光度]: $[\alpha]_D^{25} +30.8$ (c, 0.2 in Py) (as di-Me ester)



-----文献-----

Sashida, Y. et al., *Phytochemistry*, 1992, 31, 2801, (分離, H-NMR, C13-NMR)

§ 2,3,24-Trihydroxy-12-oleanen-28-oic acid; (2 α ,3 β)-form, 3-(4-Hydroxycinnamoyl)

[化合物分類] テルペノイド (Oleanane triterpenoids)

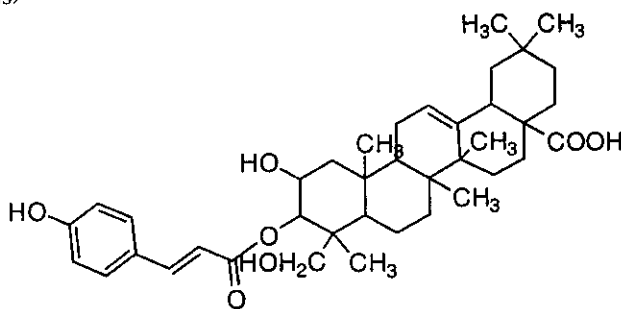
[構造式]

[分子式] $C_{39}H_{54}O_7$

[分子量] 634.851

[基原] *Actinidia polygama*

[比旋光度]: $[\alpha]_D^{25} -10.7$ (c, 0.26 in Py)



-----文献-----

Kojima, H. et al., *Phytochemistry*, 1986, 25, 729; 1987, 26, 1107, (分離, 構造決定, C13-NMR)

Ngounou, F.N. et al., *Phytochemistry*, 1987, 26, 3080, (分離, 構造決定)

Yamagishi, T. et al., *Phytochemistry*, 1988, 27, 3213, (分離, 結晶構造)

Sashida, Y. et al., *Phytochemistry*, 1994, 35, 377, (分離, H-NMR, C13-NMR)

§ 2,3,23-Trihydroxy-12,20(30)-ursadien-28-oic acid; (2 α ,3 α)-form

[CAS No.] 143839-01-4

[化合物分類] テルペノイド (Ursane triterpenoids)

[構造式]

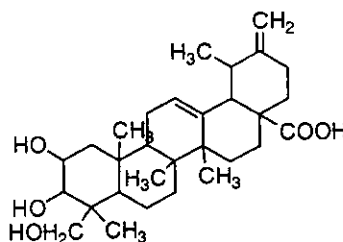
[分子式] $C_{30}H_{46}O_5$

[分子量] 486.69

[基原] *Actinidia polygama*

[性状] 塊

[比旋光度]: $[\alpha]_D^{25} +64.4$ (c, 0.2 in Py)



-----文献-----

Sashida, Y. et al., *Phytochemistry*, 1992, 31, 2801, (分離, H-NMR, C13-NMR)

§ 2,3,23-Trihydroxy-12-ursen-28-oic acid; (2 α ,3 β)-form, 3-(4-Hydroxycinnamoyl) (E-)

[化合物分類] テルペノイド (Ursane triterpenoids)

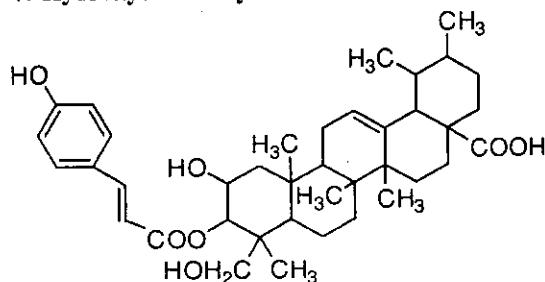
[構造式]

[分子式] $C_{39}H_{54}O_7$

[分子量] 634.851

[基原] *Actinidia polygama*

[性状] 粉末

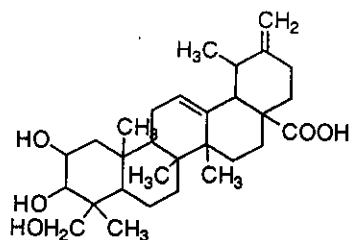


-----文献-----

Polonsky, J. et al., *Bull. Soc. Chim. Fr.*, 1959, 880; 1961, 1586, (分離, 構造決定)

Singh, B. et al., *Phytochemistry*, 1969, 8, 917, (分離)

[CAS No.] 143839-01-4
 [化合物分類] テルペノイド (Ursane triterpenoids)
 [構造式]
 [分子式] $C_{30}H_{46}O_5$
 [分子量] 486.69
 [基原] *Actinidia polygama*
 [性状] 塊
 [比旋光度]: $[\alpha]_D^{21} +64.4$ (c, 0.2 in Py)

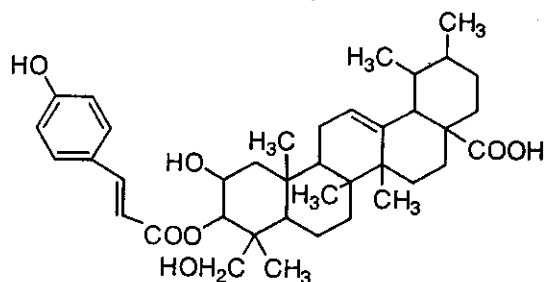


-----文献-----

Sashida, Y. et al., *Phytochemistry*, 1992, 31, 2801, (分離, H-NMR, C13-NMR)

§ 2,3,23-Trihydroxy-12-ursen-28-oic acid; (2 α , 3 β)-form, 3-(4-Hydroxycinnamoyl) (*E*-)

[化合物分類] テルペノイド (Ursane triterpenoids)
 [構造式]



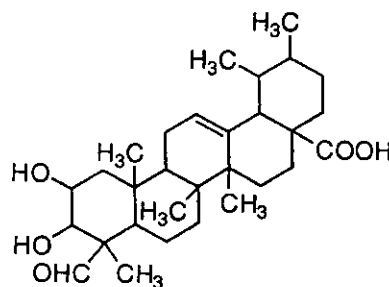
[分子式] $C_{39}H_{54}O_7$
 [分子量] 634.851
 [基原] *Actinidia polygama*
 [性状] 粉末

-----文献-----

Polonsky, J. et al., *Bull. Soc. Chim. Fr.*, 1959, 880; 1961, 1586, (分離, 構造決定)
 Singh, B. et al., *Phytochemistry*, 1969, 8, 917, (分離)
 Ahmad, V.U. et al., *Phytochemistry*, 1986, 25, 1487, (分離)
 Furuya, T. et al., *Phytochemistry*, 1987, 26, 715, (分離, H-NMR, C13-NMR)

§ 2,3,24-Trihydroxy-12-ursen-28-oic acid; (2 α , 3 α)-form, 24-Aldehyde

[化学名・別名] 2,3-Dihydroxy-24-oxo-12-ursen-28-oic acid
 [化合物分類] テルペノイド (Ursane triterpenoids)
 [構造式]



[分子式] $C_{30}H_{46}O_5$
 [分子量] 486.69
 [基原] *Actinidia polygama*
 [性状] 粉末
 [比旋光度]: $[\alpha]_D^{21} +34.8$ (c, 0.1 in Py)

-----文献-----

Sakakibara, J. et al., *Phytochemistry*, 1983, 22, 2547, (分離)
 Kikuchi, T. et al., *Chem. Pharm. Bull.*, 1984, 32, 3906, (分離)
 Zhang, Y. et al., *Phytochemistry*, 1997, 45, 401, (分離, H-NMR, C13-NMR)

*****マチコ (Matico) *****

§ § コシヨウ科マチコ (*Piper angustifolium* Ruiz Lopez et Pavon) の茎葉。
 本調査研究では、成分に関する文献はなかった。

*****マツ (Pine) *****

§ § マツ科ブラックパイン (*Pinus lario* Poiret) の枝葉, 材, 根または樹脂。
 本調査研究では、成分に関する文献はなかった。

*****マツオウジ (Matsuoji) *****

§ § シメジ科マツオオジ (*Lentinus lepideus* Fr.) の子実体または培養菌糸体。

§ 5,10-Epoxy-3-cadinene; (1 β ,5 α ,6 β ,7 α H,10 α)-form

[化学名・別名] Isolentideusether

[CAS No.] 114804-82-9

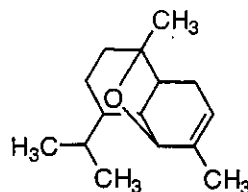
[化合物分類] テルペノイド (Cadinane sesquiterpenoids)

[構造式]

[分子式] $C_{15}H_{24}O$

[分子量] 220.354

[基原] 次の植物の代謝物: *Lentinus lepideus*



-----文献-----

Abraham, W.-R. et al., Z. Naturforsch., C, 1988, 43, 24, (分離, H-NMR, C13-NMR, Mass)

§ 3-(4-Hydroxyphenyl)-1-propanol; 4'-Me ether

[化学名・別名] 3-(4-Methoxyphenyl)-1-propanol

[CAS No.] 5406-18-8

[化合物分類] 単環芳香族 (Simple phenols), 単環芳香族 (Simple phenylpropanoids)

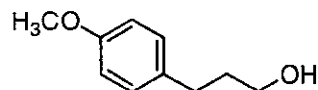
[構造式]

[分子式] $C_{10}H_{14}O_2$

[分子量] 166.219

[基原] 次の植物から分離: *Lentinus lepideus*

[沸点] $Bp_{4.3}$ 134.5-135.5 $^{\circ}C$



-----文献-----

Marvell, E.N. et al., Tetrahedron, 1966, 22, 861-866, (4'-Me ether)

§ 3-(4-Hydroxyphenyl)-2-propenoic acid; (E)-form, Me ether, Me ester

[CAS No.] 3901-07-3

[その他の CAS No.] 832-01-9

[化合物分類] 単環芳香族 (Simple phenylpropanoids)

[構造式]

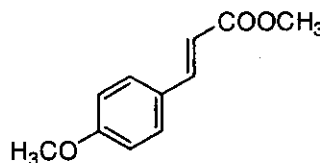
[分子式] $C_{11}H_{12}O_3$

[分子量] 192.214

[基原] 次の植物から分離: カビ類 *Lentinus lepideus* の培養培地, *Kaempferia galanga*

[融点] Mp 94-95 $^{\circ}C$

[化学物質毒性データ総覧 (RTECS) 登録番号] OO3724000



-----文献-----

Zincke, T., Annalen, 1902, 322, 224, (分離)

Ogawa, S., Bull. Chem. Soc. Jpn., 1927, 2, 25, (分離)

Karrer, W. et al., Konstitution und Vorkommen der Organischen Pflanzenstoffe, 2nd edn., Birkhäuser Verlag, Basel, 1972, nos. 951; 953; 955, (生育)

RTECS (化学物質毒性データ)

生体影響物質 : 医薬品.

健康障害に関するデータ

急性毒性に関するデータ

<<試験方法>> 認知されている最低致死量に関する試験

曝露経路 : 報告なし.

被験動物 : げっ歯類-ラット.

投与量・期間 : 200 mg/kg

毒性影響 : 致死量以外に毒性影響に関する報告はない.

参考文献

Biochemical Pharmacology. (Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523) 14,1325,1965

*****マッシュルーム (Mushroom) *****

§ § マツタケ科ツクリタケ (*Agaricus bisporus* (Lange) Sing.) の子実体.

§ Agaritine; (S)-form

[化学名・別名] L-form