

[化学名・別名] Erinacine A
[化合物分類] テルペノイド (Cyathane diterpenoids)

[構造式]
[分子式] C₂₅H₃₄O₆

[分子量] 432.556

[天然基原] 次の植物の代謝物: *Hericium erinaceum*

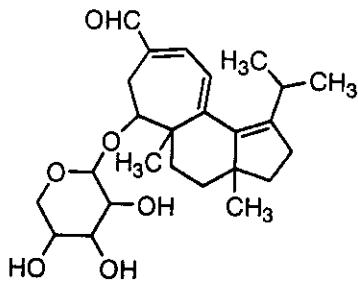
[性状] 結晶

[融点] Mp 74-76 °C

[比旋光度]: [α]_D +216 (c, 0.28 in MeOH)

[溶解性] BERDY SOL: メタノール, アセトン, EtOAc, クロロホルムに可溶; エタノールに易溶; 水に難溶

UV: [neutral] λ_{max} 201 (ε 10500); 339 (ε 11300) (MeOH) (Berdy) [neutral] λ_{max} 201 (ε 6100); 338 (ε 12000) (EtOH) (Berdy)



文献

Kawagisha, H. et al., Tet. Lett., 1994, 35, 1569, (Erinacine A)

§ 5-(1-Hydroxyethyl)-2-(hydroxymethyl)-4H-pyran-4-one

[化学名・別名] Herierin IV

[CAS No.] 131123-57-4

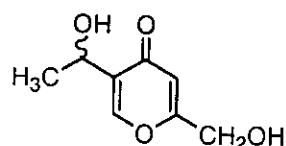
[化合物分類] 含酸素複素環式化合物 (4-Pyrones)

[構造式]

[分子式] C₈H₁₀O₄

[分子量] 170.165

[天然基原] *Hericium erinaceum*



文献

Qian, F. et al., CA, 1991, 114, 20976g, (分離, H-NMR)

*****ヤマモモ (Chinese bayberry) *****

§ § フトモモ科ヤマモモ (*Myrica rubra* Siebold et Zuccarini) の果実。

§ 3,3',4',5,5',7-Hexahydroxyflavan-(4 → 8)-3,3',4',5,5',7-hexahydroxyflavan; (all-R)-form, 3'-(3,4,5-Trihydroxybenzoyl)

[化学名・別名] 3'-Gallylprodelphinidin B:

[CAS No.] 86588-88-7

[化合物分類] フラボノイド (Proanthocyanidin flavonoids), タンニン化合物 (Simple gallate ester tannins)

[構造式]

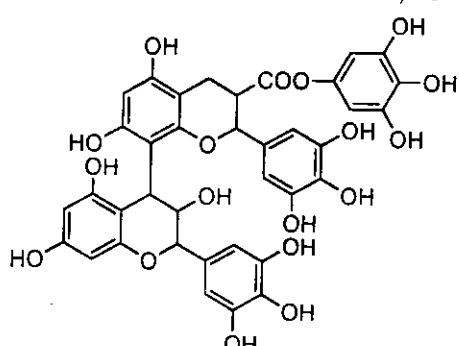
[分子式] C₃₇H₃₈O₁₈

[分子量] 762.633

[天然基原] 次の植物から分離: *Cistus salvifolus*, *Myrica rubra*, *Myrica esculenta*, *Thea sinensis*

[性状] 淡褐色の無定型粉末 + 1·1/2H₂O

[比旋光度]: [α]_D -52.7 (c, 0.62 in Me₂CO). [α]_D²⁵ +73.2 (c, 0.93 in MeOH)



文献

Krishnamurty, V. et al., Tetrahedron, 1966, 22, 2367, (分離, 誘導体)

Gandhi, P., Experientia, 1977, 33, 1272, (分離, 誘導体)

Gupta, R.K. et al., J.C.S. Perkin 1, 1981, 1148, (分離, 誘導体)

Nonaka, G. et al., Phytochemistry, 1983, 22, 237; 1984, 23, 1753, (Prodelphinidin B₂)

Delcour, K.A. et al., J. Inst. Brewing, 1984, 90, 153, (Prodelphinidin B₂)

Danne, A. et al., Phytochemistry, 1993, 34, 1129; 1994, 37, 533, (分離)

Weinges, K. et al., Phytochemistry, 1995, 38, 505, (Prodelphinidin B₂)

De Mello, J.P. et al., Phytochemistry, 1996, 41, 807, (分離)

Hartisch, C. et al., Phytochemistry, 1996, 42, 191, (分離, H-NMR, 誘導体)

§ 3,3',4',5,5',7-Hexahydroxyflavan-(4 → 8)-3,3',4',5,5',7-hexahydroxyflavan; (all-R)-form, 3,3'-Bis(3,4,5-trihydroxybenzoyl)

[化学名・別名] 3,3'-Digalloylprodelphinidin B₂. Rhodisin

[CAS No.] 86588-89-8

[化合物分類] フラボノイド (Proanthocyanidin flavonoids), タンニン化合物 (Simple gallate ester tannins)

[構造式]

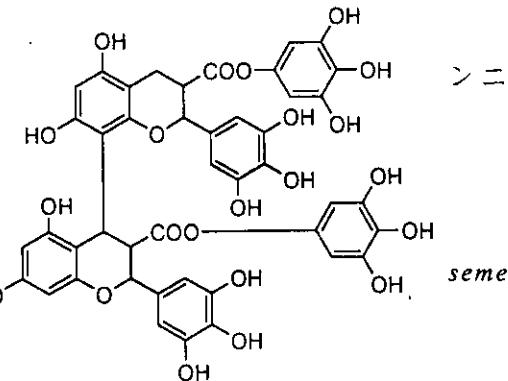
[分子式] C₄₄H₃₄O₂₂

[分子量] 914.739

[天然基原] 次の植物から分離: *Myrica rubra*, また *Rhodiola novii* からも得られる

[性状] 灰白色の無定型粉末

[比旋光度]: [α]_D²⁵ -60.9 (c, 0.87 in Me₂CO)



文献

Kim, K.H. et al., Khim. Prir. Soedin., 1989, 25, 723; Chem. Nat. Compd. (Engl. Transl.), 1989, 25, 618, (Rhodisin, Rhodisinoside)

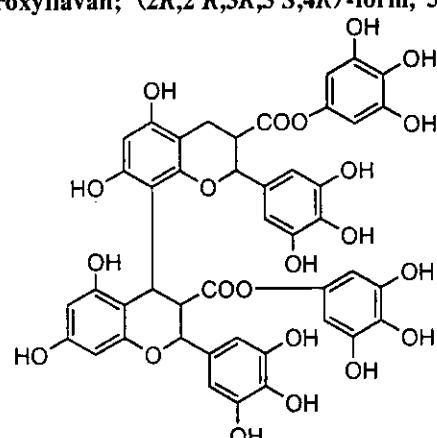
§ 3,3',4',5,5',7-Hexahydroxyflavan-(4 → 8)-3,3',4',5,5',7-hexahydroxyflavan; (2R,2'R,3R,3'S,4R)-form, 3,3'-Bis(3,4,5-trihydroxybenzoyl)

[化学名・別名] 3,3'-Digalloylprodelphinidin B₁

[CAS No.] 87392-65-2

[化合物分類] タンニン化合物 (Simple gallate ester tannins), フラボノイド (Proanthocyanidin flavonoids)

[構造式]



[分子式] C₄₄H₃₄O₂₂

[分子量] 914.739

[天然基原] 次の植物から分離: *Myrica rubra*

[性状] 灰白色の無定型粉末

[比旋光度]: [α]_D²⁵ +26.6 (c, 0.25 in Me₂CO)

文献

Krishnamurty, V. et al., Tetrahedron, 1966, 22, 2367, (分離, 誘導体)

Gandhi, P., Experientia, 1977, 33, 1272, (分離, 誘導体)

Gupta, R.K. et al., J.C.S. Perkin 1, 1981, 1148, (分離, 誘導体)

Nonaka, G. et al., Phytochemistry, 1983, 22, 237; 1984, 23, 1753, (Prodelphinidin B₁)

Delcour, K.A. et al., J. Inst. Brewing, 1984, 90, 153, (Prodelphinidin B₁)

(Rhodisin, Rhodisinoside)

Danne, A. et al., Phytochemistry, 1993, 34, 1129; 1994, 37, 533, (分離)

Weinges, K. et al., Phytochemistry, 1995, 38, 505, (Prodelphinidin B₁)

De Mello, J.P. et al., Phytochemistry, 1996, 41, 807, (分離)

Hartisch, C. et al., Phytochemistry, 1996, 42, 191, (分離, H-NMR, 誘導体)

§ 3,3',4',5,5',7-Hexahydroxyflavanone; (2R,3R)-form, 3-O-(3,4,5-Trihydroxybenzoyl), 3'-sulfate

[化学名・別名] Myricatin

[CAS No.] 87388-96-3

[化合物分類] フラボノイド (Dihydroflavonols; 6 × O-置換基), タンニン化 (Simple gallate ester tannins)

[構造式]

[分子式] C₂₂H₂₆O₁₃S

[分子量] 552.425

[天然基原] 次の植物から分離: *Myrica rubra*

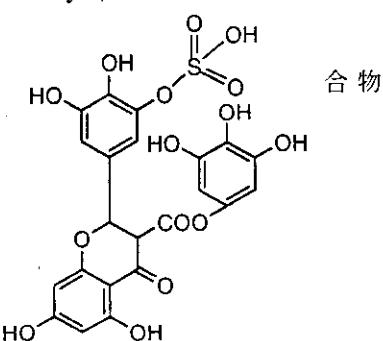
[性状] 青白い黄色の針状結晶 (H₂O) (as K salt)

[融点] Mp 235-237 °C (K salt)

[比旋光度]: [α]_D²⁵ +78.2 (c, 0.87 in Me₂CO)

文献

Nonaka, G.-I. et al., Phytochemistry, 1983, 22, 237, (Myricatin)



§ 3,3',4',5,5',7-Hexahydroxyflavone

[化学名・別名] 3,5,7-Trihydroxy-2-(3,4,5-trihydroxyphenyl)-4H-1-benzopyran-4-one (CAS名).
3',4',5,5',7-Pentahydroxyflavonol. Myricetin. Cannabiscetin. Myricetol
[CAS No.] 529-44-2

[関連 CAS No.] 6822-41-9, 28454-80-0, 29662-78-0, 36116-88-8, 39049-12-2, 79191-63-2

[化合物分類] フラボノイド(Flavonols; 6×O置換基), 薬物: 抗ウイルス物質(Antiviral agents), 薬物:
抗 HIV 薬(Anti-HIV agents), PS8250, PA3750, PM6148

[構造式]

[分子式] $C_{15}H_{16}O_8$

[分子量] 318.239

[天然基原] 次の植物から分離: *Myrica rubra* と *Myrica nagi* の樹皮; 植物界に広く分布し、種子、花、茎、しばしば配糖体にも存在している

[用途] Used as 0.1% soln. in Me:CO or DMF for fluorimetric detn. of Sc.
抗 HIV 活性を示す

[性状] 淡黄色の針状結晶(EtOH 溶液)

[融点] Mp 357-360 °C で分解

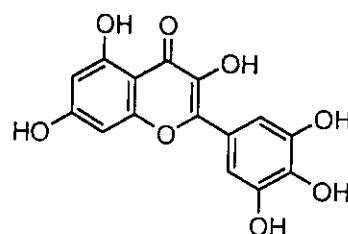
[溶解性] アセトン、DMF に可溶

[Log P 計算値] Log P -0.95 (計算値)

UV: [neutral] λ_{max} 252 ; 374 (MeOH) (Berdy) [neutral] λ_{max} 255 ; 375 (EtOH) (Berdy) [base] λ_{max} 285 ; 437 (MeOH-NAOH) (Berdy)

[化学物質毒性データ総覧(RTECS)登録番号] LK8646000

[販売元] Aldrich:11481-2; Fluka:70050; Sigma:M6760



文献

Subramanian, S.S. et al., Indian J. Chem., 1972, 10, 452, (Melicitrin)

Karrer, W. et al., Konstitution und Vorkommen der Organischen Pflanzenstoffe, 2nd edn., Birkhäuser Verlag, Basel, 1972, nos. 1575; 1576, (生育)

***RTECS(化学物質毒性データ) ***

生体影響物質 : 変異原性物質

健康障害に関するデータ

変異原性に関するデータ

«試験方法» 微生物を用いた突然変異試験.

試験系 : 大腸菌 *Salmonella typhimurium*

投与量・期間 : 166 nmol/plate

参照文献

Mutation Research. (Elsevier Science Pub. B.V., POB 211, 1000 AE Amsterdam, Netherlands) 54,297,1978

§ Myricanol; Ketone, 5-deoxy

[化学名・別名] 5-Deoxymyricanone

[CAS No.] 110007-10-8

[化合物分類] 単環芳香族(Diarylalkyls), 単環芳香族(Biphenyls)

[構造式]

[分子式] $C_{15}H_{16}O_4$

[分子量] 340.418

[天然基原] 次の植物から分離: bacterial galls of *Myrica rubra*

[性状] 無定型



文献

Takeda, Y. et al., Chem. Pharm. Bull., 1987, 35, 2569,
(5-Deoxymyricanone)

§ Myricanol; 5-O-β-D-Glucopyranoside

[化学名・別名] Myricanol 5-glucoside

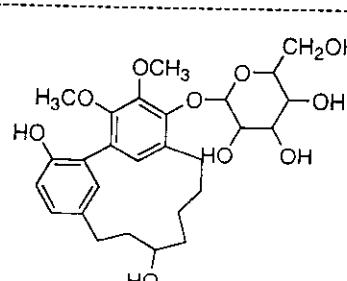
[CAS No.] 90052-02-1

[化合物分類] 単環芳香族(Diarylalkyls), 単環芳香族(Biphenyls)

[構造式]

[分子式] $C_{25}H_{28}O_{10}$

[分子量] 520.575



[天然基原] *Myrica arborea*, *Myrica rubra*

[融点] Mp 220-223 °C

[比旋光度]: $[\alpha]_D -53.7$

文献

Campbell, R.V.M. et al., Chem. Comm., 1970, 1206, (分離)

Inoue, T. et al., Yakugaku Zasshi, 1984, 104, 37-41, (5-glucoside)

Morihara, M. et al., Chem. Pharm. Bull., 1997, 45, 820, (Myricatomentoside II)

§ Myricanol; 5-O-[$(3,4,5$ -Trihydroxybenzoyl)-($\rightarrow 6$)- β -D-glucopyranoside]

[化学名・別名] Myricanol 5-(6-galloylglucoside)

[CAS No.] 113204-18-5

[化合物分類] 单環芳香族(Diarylalkyls), タンニン化合物

Simple gallate ester tannins, 单環芳香族(Biphenyls)

[構造式]

[分子式] $C_{34}H_{40}O_{14}$

[分子量] 672.682

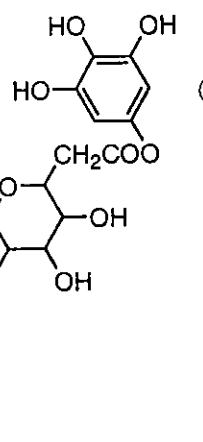
[天然基原] *Myrica rubra*

[性状] 結晶 (MeOH 溶液)

[融点] Mp 267-269 °C

[比旋光度]: $[\alpha]_D^{24} -78.4$ (c, 1 in EtOH)

UV: [neutral] λ_{max} 256 ($\log \epsilon$ 4.2); 285 ($\log \epsilon$ 4.11) (EtOH)



文献

Campbell, R.V.M. et al., Chem. Comm., 1970, 1206, (分離)

Inoue, T. et al., Yakugaku Zasshi, 1984, 104, 37-41, (5-glucoside)

Takeda, Y. et al., Chem. Pharm. Bull., 1987, 35, 2569, (5-Deoxymyricanone)

Morihara, M. et al., Chem. Pharm. Bull., 1997, 45, 820, (Myricatomentoside II)

§ Myricanol; 5-O-[α -L-Arabinofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]

[化合物分類] 单環芳香族(Diarylalkyls), 单環芳香族(Biphenyls)

[構造式]

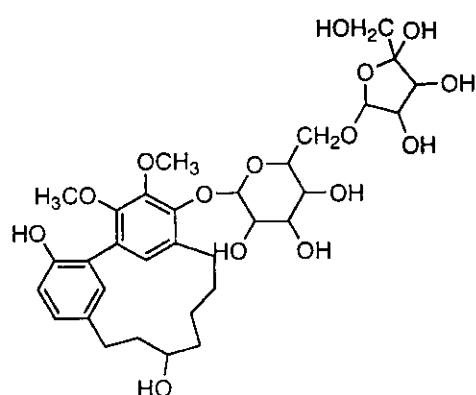
[分子式] $C_{32}H_{40}O_{14}$

[分子量] 652.691

[天然基原] *Myrica rubra*

[性状] 灰白色の粉末

[比旋光度]: $[\alpha]_D^{21} -81.5$ (c, 1 in MeOH)



文献

Campbell, R.V.M. et al., Chem. Comm., 1970, 1206, (分離)

Malterud, K.E. et al., Phytochemistry, 1980, 19, 705, (13-Oxomyricanol)

Inoue, T. et al., Yakugaku Zasshi, 1984, 104, 37-41, (5-glucoside)

Takeda, Y. et al., Chem. Pharm. Bull., 1987, 35, 2569, (5-Deoxymyricanone)

Morihara, M. et al., Chem. Pharm. Bull., 1997, 45, 820, (Myricatomentoside II)

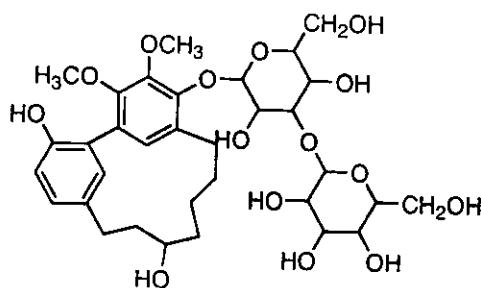
§ Myricanol; 5-O-[β -D-Glucopyranosyl-(1 \rightarrow 3)- β -D-glucopyranoside]

[化学名・別名] Myricanol 5-laminaribioside

[CAS No.] 137578-55-3

[化合物分類] 单環芳香族(Diarylalkyls), 单環芳香族(Biphenyls)

[構造式]



[分子式] $C_{33}H_{46}O_{15}$

[分子量] 682.717

[天然基原] *Myrica rubra*

[性状] 灰白色粉末

[比旋光度]: $[\alpha]_D^{25} -47.7$ (c, 1 in MeOH)

文献

Campbell, R.V.M. et al., Chem. Comm., 1970, 1206, (分離)

Malterud, K.E. et al., Phytochemistry, 1980, 19, 705, (13-Oxomyricanol)

Inoue, T. et al., Yakugaku Zasshi, 1984, 104, 37-41, (5-glucoside)

Takeda, Y. et al., Chem. Pharm. Bull., 1987, 35, 2569, (5-Deoxymyricanone)

Morihara, M. et al., Chem. Pharm. Bull., 1997, 45, 820, (Myricatomentoside II)

§ Myricanol; 5-O-[β -D-Glucopyranosyl-(1 → 6)- β -D-glucopyranoside]

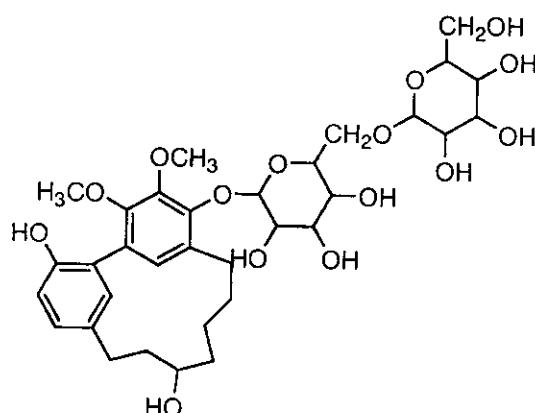
[化学名・別名] Myricanol 5- β -sophoroside

[CAS No.] 116107-17-6

[化合物分類] 单環芳香族 (Diarylalkyls), 单環芳香族

(Biphenyls)

[構造式]



[分子式] $C_{31}H_{44}O_{15}$

[分子量] 682.717

[天然基原] *Myrica rubra*

[性状] 灰白色的粉末

[比旋光度]: $[\alpha]_D^{25} -64.6$ (c, 1.1 in Py)

文献

Campbell, R.V.M. et al., Chem. Comm., 1970, 1206, (分離)

Malterud, K.E. et al., Phytochemistry, 1980, 19, 705, (13-Oxomyricanol)

Inoue, T. et al., Yakugaku Zasshi, 1984, 104, 37-41, (5-glucoside)

Takeda, Y. et al., Chem. Pharm. Bull., 1987, 35, 2569, (5-Deoxymyricanone)

Yaguchi, Y. et al., Chem. Pharm. Bull., 1988, 36, 1419-1424, (5-sophoroside, 5-6-galloylglucoside)

Sun, D. et al., Phytochemistry, 1988, 27, 579, (C13-NMR)

Morihara, M. et al., Chem. Pharm. Bull., 1997, 45, 820, (Myricatomentoside II)

§ 3,3',4',5,7-Pentahydroxyflavan ($4 \rightarrow 6$) -3,3',4',5,7-pentahydroxyflavan; ($2R,2'R,3R,3'R,4R$) -form, 5'',5'''-Dihydroxy,3,3'-bis(3,4,5-trihydroxybenzoyl)

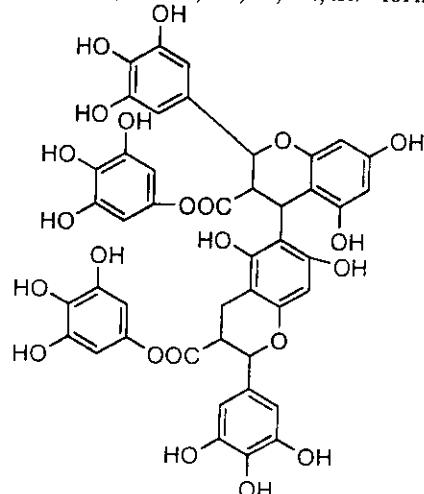
[化学名・別名] 3,3'-Di-O-galloylprodelphinidin B_s

[CAS No.] 86588-87-6

[化合物分類] タンニン化合物 (Simple gallate ester tannins),

フラボノイド (Proanthocyanidin flavonoids)

[構造式]



[分子式] $C_{44}H_{44}O_{32}$

[分子量] 914.739

[天然基原] 次の植物から分離: *Myrica rubra* の樹皮

[性状] 灰白色的無定型粉末

[比旋光度]: $[\alpha]_D^{25} +57.4$ (c, 1.01 in Me₂CO)

文献

- Kashiwada, Y. et al., Chem. Pharm. Bull., 1986, 34, 4083, (gallates)
Cui, C.-B. et al., Chem. Pharm. Bull., 1992, 40, 889, (分離, H-NMR, C13-NMR)
Greiss, F. et al., Phytochemistry, 1995, 39, 635, (分離)
Wang, J.-N. et al., Phytochemistry, 2000, 53, 1097-1102, (3'-Gallylprocyanidin B_s)

§ 14-Taraxerene-3,28-diol; 3 β -form, 3-Ketone

[化学名・別名] 28-Hydroxy-14-taraxeren-3-one. Miricolone

[CAS No.] 88717-97-9

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

[構造式]

[分子式] C₃₀H₄₈O₂

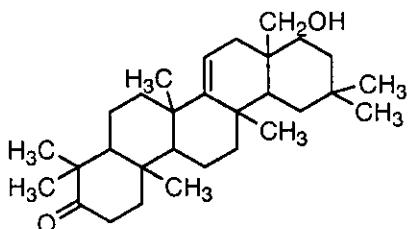
[分子量] 440.708

[天然基原] 次の植物から分離: *Myrica rubra*, *Alnaster fruticosus*

[性状] 結晶 (CHCl₃)

[融点] Mp 225-227 °C (202-204 °C)

[比旋光度]: [α]_D²⁰ -0.2 (c, 1 in CHCl₃)



文献

- Sakurai, N. et al., Phytochemistry, 1987, 26, 217, (ketone)

- Merfort, I. et al., Phytochemistry, 1992, 31, 4031, (Isomyricadiol, C13-NMR)

*****ユーカリ (Eucalyptus) *****

§ § フトモモ科ユーカリノキ (*Eucalyptus globulus de La Billardiere*) の枝葉。

§ 1-Acetyl-4-isopropenylcyclopentene

[化学名・別名] 1-[4-(1-Methylethenyl)-1-cyclopenten-1-yl] ethanone (CAS 名)

[CAS No.] 2704-76-9

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

[構造式]

[分子式] C₁₀H₁₄O

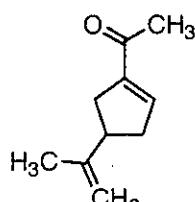
[分子量] 150.22

[天然基原] 次の植物から分離: *Eucalyptus globulus* のオイル

[性状] オイル

[沸点] Bp₂₀ 225-225.5 °C, Bp₁₅ 67-68 °C

[屈折率] n_D²⁵ 1.4965



文献

- Schmidt, H., Chem. Ber., 1947, 80, 528; 533, (分離)

- Vig, P. et al., Indian J. Chem., 1968, 6, 564, (合成法)

§ 10-Aromadendranol; (1 α ,4 α ,5 β ,6 α ,7 α ,10 α)-form

[化学名・別名] Globulol

[CAS No.] 489-41-8

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

[構造式]

[分子式] C₁₅H₂₆O

[分子量] 222.37

[天然基原] *Eucalyptus globulus*, *Thryptomene kochii*. また *Eucalyptus eudesmoides*, *Eucalyptus caesia*, *Eucalyptus gongylocarpa*, *Prostanthera sieberi*, *Prostanthera rotundifolia* からも得られる

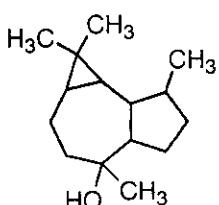
[性状] 針状結晶 (EtOH 溶液)

[融点] Mp 88.5 °C

[沸点] Bp 283 °C

[比旋光度]: [α]_D²⁰ -35.3 (CHCl₃)

[販売元] Fluka:49070



文献

- Karrer, W. et al., Konstitution und Vorkommen der Organischen Pflanzenstoffe, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 1908, (生育)

Asakawa, Y. et al., Phytochemistry, 1980, 19, 2141, (ent-Globulo)

§ 10(14)-Aromadendrene; (1 β ,4 α ,5 β ,6 β ,7 β)-form

[化学名・別名] Alloaromadendrene, α -Aromadendrene

[CAS No.] 25246-27-9

[その他の CAS No.] 72747-25-2

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

[構造式]

[分子式] C₁₅H₂₄

[分子量] 204.355

[天然基原] 次の植物を含む多くの精油: *Ledum palustre*, *Croton* spp., *Eucalyptus globulus*, *Metrosideros scandens*, *Perovskia scrophulariaefolia*, *Glycyrrhiza triphylla*

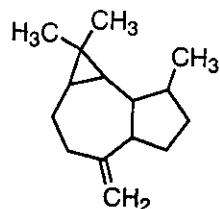
[性状] オイル

[沸点] Bp: 96 °C

[比旋光度]: [α]_D²⁰ -21.6

[その他のデータ] n_D²⁰ 1.5010

[販売元] Fluka:5680



文 献

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)

§ 1,2,3,5-Benzenetetrol; 1,2,3-Tri-Me ether, 5-Ac

[CAS No.] 17742-46-0

[化合物分類] 单環芳香族 (Simple phenols)

[構造式]

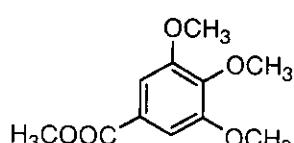
[分子式] C₁₁H₁₄O₃

[分子量] 226.229

[天然基原] *Eucalyptus globulus*

[性状] 結晶 (MeOH 溶液)

[融点] Mp 74 °C



文 献

Nonaka, G. et al., Chem. Pharm. Bull., 1982, 30, 2061, (Trimethoxyphenyl galloylglucoside)

Shimomura, H. et al., Phytochemistry, 1988, 27, 644, (分離, H-NMR, C13-NMR)

§ 1,2,3,5-Benzenetetrol; 1,3,5-Tri-Me ether, Ac

[CAS No.] 30225-90-2

[化合物分類] 单環芳香族 (Simple benzene derivatives)

[構造式]

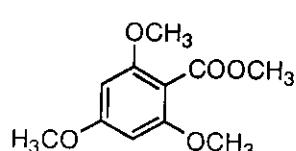
[分子式] C₁₁H₁₄O₃

[分子量] 226.229

[天然基原] *Eucalyptus globulus*

[性状] 結晶 (EtOH 溶液)

[融点] Mp 100 °C



文 献

Sargent, M.V. et al., J.C.S. Perkin 1, 1982, 403, (合成法, 1,3,5-tri-Me)

§ 3,11-Dihydroxy-12-ursen-28-oic acid; (3 β ,11 α)-form, 11-Me ether, 3-Ac, Me ester

[CAS No.] 189139-96-6

[化合物分類] テルペノイド (Ursane triterpenoids)

[構造式]

[分子式] C₂₉H₄₄O₅

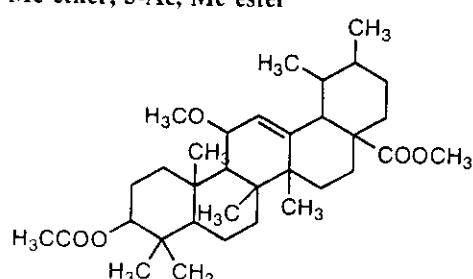
[分子量] 542.798

[天然基原] *Eucalyptus globulus*

[性状] 結晶

[融点] Mp 140.5-141 °C

[比旋光度]: [α]_D²⁰ -82 (c, 0.25 in CHCl₃)



文献

Siddiqui, S. et al., Phytochemistry, 1990, 29, 3615, (分離, H-NMR, C13-NMR, Obtusilin)

Syamasundar, K.V. et al., Phytochemistry, 1991, 30, 362, (分離, H-NMR, C13-NMR, Obtusilin)

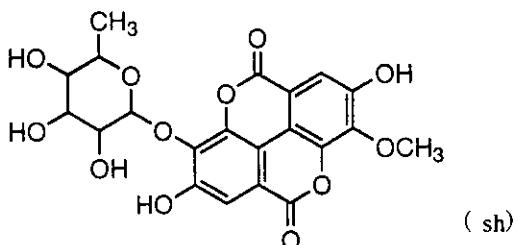
Shirota, O. et al., J. Nat. Prod., 1996, 59, 1072-1075, (Krukovine B).

Santos, G.G. et al., Phytochemistry, 1997, 44, 1309-1312, (分離, H-NMR, C13-NMR, 誘導体)

§ Ellagic acid; 3-Me ether, 8-O- α -L-rhamnopyranoside

[化合物分類] タンニン化合物 (Hexahydroxydiphenoyl ester tannins)

[構造式]



[分子式] C₂₁H₂₀O₁₂

[分子量] 462.366

[天然基原] *Eucalyptus globulus*

[性状] 黄色の粉末

UV: [neutral] λ_{max} 246 ($\log \epsilon$ 4.6); 260 (sh) ($\log \epsilon$ 4.5); 285
($\log \epsilon$ 4); 360 (sh) ($\log \epsilon$ 3.9); 375 ($\log \epsilon$ 4) (MeOH)

文献

Karrer, W. et al., Konstitution und Vorkommen der Organischen Pflanzenstoffe, 2nd edn., Birkhäuser Verlag,

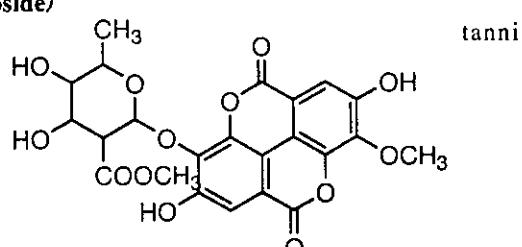
Yazaki, Y. et al., Phytochemistry, 1976, 15, 1180-1182, (3-Me ether rhamnoside)

Kim, J.-P. et al., Phytochemistry, 2001, 57, 587-591, (3-Me 8-rhamnoside)

§ Ellagic acid; 3-Me ether, 8-O-(2-O-acetyl- α -L-rhamnopyranoside)

[化合物分類] タンニン化合物 (Hexahydroxydiphenoyl ester tannins)

[構造式]



[分子式] C₂₂H₂₂O₁₃

[分子量] 504.403

[天然基原] *Eucalyptus globulus*

[性状] 黄色の粉末

[その他のデータ] 非天然物

文献

Karrer, W. et al., Konstitution und Vorkommen der Organischen Pflanzenstoffe, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 1143, (生育)

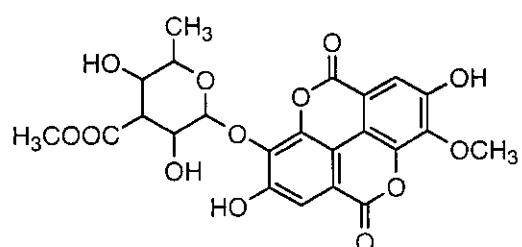
Yazaki, Y. et al., Phytochemistry, 1976, 15, 1180-1182, (3-Me ether rhamnoside)

Kim, J.-P. et al., Phytochemistry, 2001, 57, 587-591, (3-Me 8-rhamnoside)

§ Ellagic acid; 3-Me ether, 8-O-(3-O-acetyl- α -L-rhamnopyranoside)

[化合物分類] タンニン化合物 (Hexahydroxydiphenoyl ester tannins)

[構造式]



[分子式] C₂₃H₂₄O₁₃

[分子量] 504.403

[天然基原] *Eucalyptus globulus*

[性状] 黄色の粉末

[その他のデータ] 非天然物

文献

Karrer, W. et al., Konstitution und Vorkommen der Organischen Pflanzenstoffe, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 1143, (生育)

Yazaki, Y. et al., Phytochemistry, 1976, 15, 1180-1182, (3-Me ether rhamnoside)

Kim, J.-P. et al., Phytochemistry, 2001, 57, 587-591, (3-Me 8-rhamnoside)

§ Ellagic acid; 3-Me ether, 8-O-(4-O-acetyl- α -L-rhamnopyranoside)

[化合物分類] タンニン化合物 (Hexahydroxydiphenoyl ester tannins)

[構造式]

[分子式] $C_{22}H_{28}O_{13}$

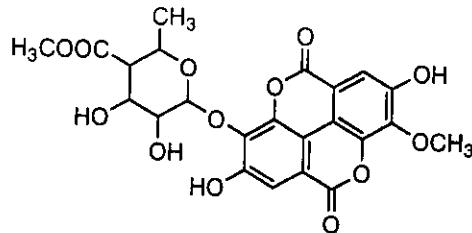
[分子量] 504.403

[天然基原] *Eucalyptus globulus*

[性状] 黄色の粉末

UV: [neutral] λ_{max} 246 ($\log \epsilon$ 4.6); 260 (sh) ($\log \epsilon$ 4.5);
285 (sh) ($\log \epsilon$ 4); 360 (sh) ($\log \epsilon$ 4); 375 ($\log \epsilon$ 4)
(MeOH)

[その他のデータ] 非天然物



-----文献-----

Karrer, W. et al., Konstitution und Vorkommen der Organischen Pflanzenstoffe, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 1143, (生育)

Yazaki, Y. et al., Phytochemistry, 1976, 15, 1180-1182, (3-Me ether rhamnoside)

Kim, J.-P. et al., Phytochemistry, 2001, 57, 587-591, (3-Me 8-rhamnoside)

§ Eucalyptone

[化学名・別名] Macrocarpal aml

[CAS No.] 172617-99-1

[その他の CAS No.] 168146-22-3

[化合物分類] テルペノイド(Aromadendrane sesquiterpenoids), テルペノイド(Meroterpenoids)

[構造式]

[分子式] $C_{22}H_{30}O_5$

[分子量] 486.604

[一般的性質] CAS 名は不完全

[天然基原] *Eucalyptus globulus*, *Eucalyptus amplifolia*

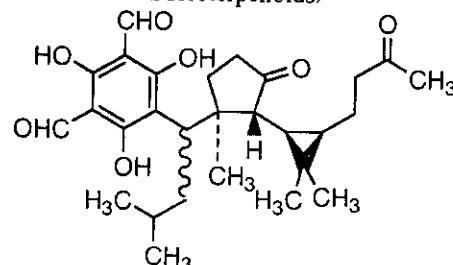
[性状] 粉末

[融点] Mp 145-147 °C

[比旋光度]: $[\alpha]_D^{20} +44.6$ (c, 0.19 in EtOH). $[\alpha]_D^{25} +70$ (c, 0.21
in EtOH)

UV: [neutral] λ_{max} 217 (ϵ 28000); 277 (ϵ 30000); 390 (ϵ 10000) (EtOH)

[その他のデータ] No stereochem. indicated for Macrocarpal aml



-----文献-----

Singh, I.P. et al., Biosci., Biotechnol., Biochem., 1995, 59, 2330-2332. (Macrocarpal am 1)

Osawa, K. et al., Phytochemistry, 1995, 40, 183-184, (Eucalyptone)

§ Euglobal V

[CAS No.] 77809-89-3

[化合物分類] テルペノイド(Meroterpenoids)

[構造式]

[分子式] $C_{22}H_{30}O_5$

[分子量] 454.605

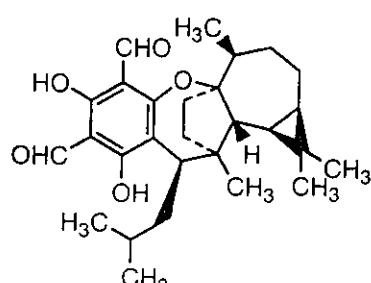
[天然基原] *Eucalyptus globulus*, *Eucalyptus incrassata*

[用途] 強い肉芽形成抑制因子

[性状] プリズム結晶 (EtOH)

[融点] Mp 184-185 °C

[比旋光度]: $[\alpha]_D^{20} -206$ (c, 1 in CHCl₃)



-----文献-----

Amano, T. et al., J. Chromatogr., 1981, 208, 347, (分離)

Kozuka, M. et al., Chem. Pharm. Bull., 1982, 30, 1964, (結晶構造)

Takasaki, M. et al., Chem. Pharm. Bull., 1994, 42, 2113, (分離, H-NMR, C13-NMR)

§ Euglobal Ia

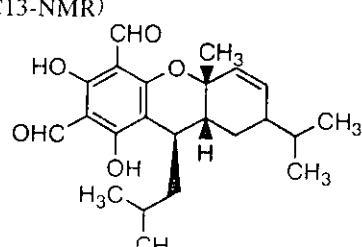
[CAS No.] 77844-93-0

[化合物分類] テルペノイド(Meroterpenoids)

[構造式]

[分子式] $C_{22}H_{30}O_5$

[分子量] 386.487



[用途] 強い肉芽形成抑制因子

[性状] オイル

[比旋光度]: $[\alpha]_D^{20} -216.7$ (c, 1.0 in CHCl₃)

UV: [base] λ_{max} (溶媒は報告されていない) (Derep) [neutral] λ_{max} 277 (ϵ 32000); 340 (sh) (ϵ 4000) (EtOH) (Derep)

文献

Kozuka, M. et al., Chem. Pharm. Bull., 1982, 30, 1952

§ Euglobal Ia; 7-Epimer

[化学名・別名] Euglobal Ia₂

[CAS No.] 77794-63-9

[化合物分類] テルペノイド (Meroterpenoids)

[構造式]

[分子式] C₂₃H₃₀O₅

[分子量] 386.487

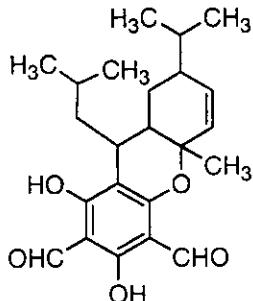
[天然基原] *Eucalyptus globulus*

[用途] 強い肉芽形成抑制因子

[性状] オイル

[比旋光度]: $[\alpha]_D^{20} +31.8$ (c, 1.0 in CHCl₃)

UV: [base] λ_{max} (溶媒は報告されていない) (Derep) [neutral] λ_{max} 277 (ϵ 32000); 340 (sh) (ϵ 4000) (EtOH) (Derep)



文献

Kozuka, M. et al., Chem. Pharm. Bull., 1982, 30, 1952

§ Euglobal Ic

[CAS No.] 77794-60-6

[化合物分類] テルペノイド (Meroterpenoids)

[構造式]

[分子式] C₂₃H₃₀O₅

[分子量] 386.487

[天然基原] *Eucalyptus globulus*

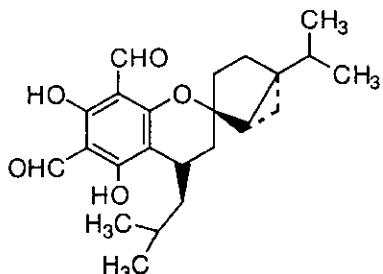
[用途] 強い肉芽形成抑制因子

[性状] プリズム結晶 (EtOH)

[融点] Mp 108-110 °C

[比旋光度]: $[\alpha]_D^{20} -3.12$ (c, 1.0 in CHCl₃)

UV: [base] λ_{max} (溶媒は報告されていない) (Derep) [neutral] λ_{max} 277 (ϵ 32000); 340 (sh) (ϵ 4000) (EtOH) (Derep)



文献

Kozuka, M. et al., Chem. Pharm. Bull., 1982, 30, 1952, (結晶構造)

Takasaki, M. et al., Chem. Pharm. Bull., 1994, 42, 2177-2179, (分離, H-NMR, C13-NMR)

§ Euglobal Ic; 7-Epimer

[化学名・別名] Euglobal IIa

[CAS No.] 77844-92-9

[化合物分類] テルペノイド (Meroterpenoids)

[構造式]

[分子式] C₂₃H₃₀O₅

[分子量] 386.487

[天然基原] *Eucalyptus globulus*

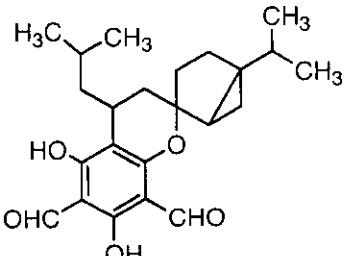
[用途] 強い肉芽形成抑制因子

[性状] プリズム結晶 (EtOH)

[融点] Mp 130-132 °C

[比旋光度]: $[\alpha]_D^{20} +9.24$ (c, 1.0 in CHCl₃)

UV: [neutral] λ_{max} 277 (ϵ 32000); 340 (sh) (ϵ 4000) (EtOH) (Derep) [base] λ_{max} (溶媒は報告されていない) (Derep)



文献

Kozuka, M. et al., Chem. Pharm. Bull., 1982, 30, 1952, (結晶構造)

Kozuka, M. et al., Chem. Pharm. Bull., 1982, 30, 1952, (結晶構造)
 Takasaki, M. et al., Chem. Pharm. Bull., 1994, 42, 2177-2179, (分離, H-NMR, C13-NMR)

§ Euglobal Ic; 2',4',7-Triepimer

[化学名・別名] Euglobal Ib

[CAS No.] 77844-94-1

[化合物分類] テルペノイド (Meroterpenoids)

[構造式]

[分子式] $C_{23}H_{36}O_3$

[分子量] 386.487

[天然基原] *Eucalyptus globulus*

[用途] 強い肉芽形成抑制因子

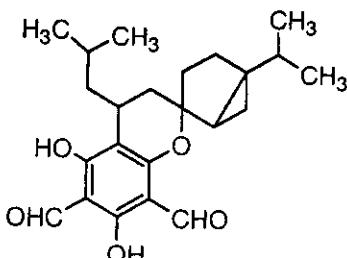
[性状] 針状結晶 (EtOH)

[融点] Mp 119-121 °C

[比旋光度]: $[\alpha]_D^{20} -1.94$ (c, 1.0 in CHCl₃)

UV: [neutral] λ_{max} 277 (ϵ 32000); 340 (sh) (ϵ 4000) (EtOH) (Derep)

[base] λ_{max} (溶媒は報告されていない) (Derep)



文献

Kozuka, M. et al., Chem. Pharm. Bull., 1982, 30, 1952

Takasaki, M. et al., Chem. Pharm. Bull., 1994, 42, 2177-2179, (分離, H-NMR, C13-NMR)

§ Euglobal III

[CAS No.] 76449-26-8

[化合物分類] テルペノイド (Meroterpenoids)

[構造式]

[分子式] $C_{23}H_{36}O_3$

[分子量] 454.605

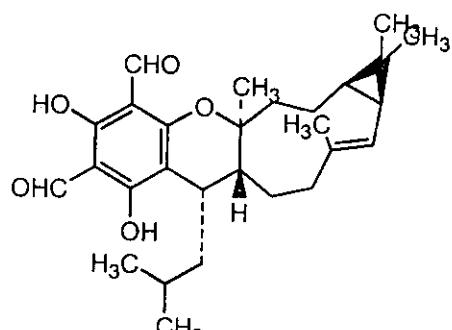
[天然基原] *Eucalyptus globulus*

[性状] 結晶 (EtOH)

[融点] Mp 169-171 °C

[比旋光度]: $[\alpha]_D^{20} +229$ (c, 1 in CHCl₃)

UV: [base] λ_{max} (溶媒は報告されていない) (Derep) [neutral] λ_{max} 278 (ϵ 32200); 345 (sh) (ϵ 4880) (EtOH) (Derep)



文献

Kozuka, M. et al., Chem. Pharm. Bull., 1982, 30, 1964, (構造決定, 絶対構造)

§ Euglobal IIb

[CAS No.] 77794-61-7

[化合物分類] テルペノイド (Meroterpenoids)

[構造式]

[分子式] $C_{23}H_{36}O_3$

[分子量] 386.487

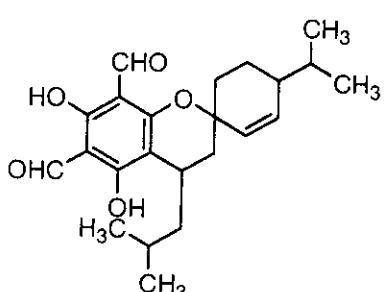
[天然基原] *Eucalyptus globulus*

[用途] 強い肉芽形成抑制因子

[性状] オイル

[比旋光度]: $[\alpha]_D^{20} +12.2$ (c, 1 in CHCl₃)

UV: [neutral] λ_{max} 277 (ϵ 32000); 340 (sh) (ϵ 4000) (EtOH) (Derep) [base] λ_{max} (溶媒は報告されていない) (Derep)



文献

Kozuka, M. et al., Chem. Pharm. Bull., 1982, 30, 1952

§ Euglobal IIc

[CAS No.] 77794-62-8

[化合物分類] テルペノイド (Meroterpenoids)、单環芳香族 (Dibenzoc[*b,e*]pyrans)

[構造式]

[分子式] $C_{23}H_{30}O_5$

[分子量] 386.487

[天然基原] *Eucalyptus globulus*

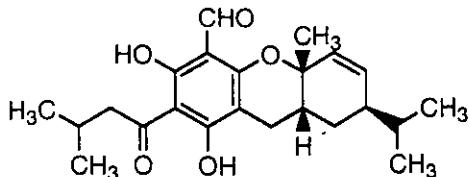
[用途] 強い肉芽形成抑制因子

[性状] オイル

[比旋光度]: $[\alpha]_D^{20} -144$ (c, 1.0 in CHCl₃)

UV: [base] λ_{max} 277 (ε 32000); 340 (sh) (ε 4000)

(EtOH) (perrep)



文献

Kozuka, M. et al., Chem. Pharm. Bull., 1982, 30, 1952-1963, (Euglobal IIc)

Chiba, K. et al., J.C.S. Perkin 1, 1998, 2939-2942, (合成法)

Singh, I.P. et al., Phytochemistry, 1998, 47, 1157-1159, (Euglobal G6)

§ Euglobal IVb

[CAS No.] 82864-79-7

[化合物分類] テルペノイド (Meroterpenoids)

[構造式]

[分子式] $C_{23}H_{30}O_5$

[分子量] 454.605

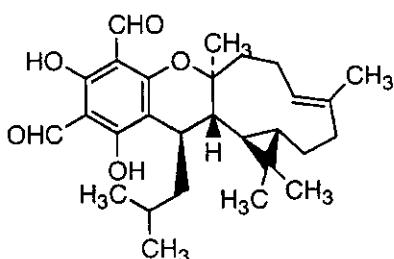
[天然基原] *Eucalyptus globulus*

[用途] 強い肉芽形成抑制因子

[性状] プリズム結晶

[融点] Mp 187-190 °C

[比旋光度]: $[\alpha]_D^{20} -230$ (c, 1.0 in CHCl₃)



文献

Kozuka, M. et al., Chem. Pharm. Bull., 1982, 30, 1964

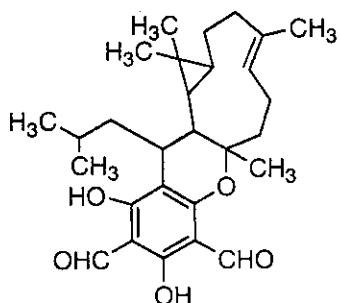
§ Euglobal IVb; 7-Epimer

[化学名・別名] Euglobal IVa

[CAS No.] 77794-65-1

[化合物分類] テルペノイド (Meroterpenoids)

[構造式]



[分子式] $C_{23}H_{30}O_5$

[分子量] 454.605

[天然基原] *Eucalyptus globulus*

[用途] 強い肉芽形成抑制因子

文献

Kozuka, M. et al., Chem. Pharm. Bull., 1982, 30, 1964

§ Euglobal VII

[CAS No.] 77794-64-0

[化合物分類] テルペノイド (Meroterpenoids)

[構造式]

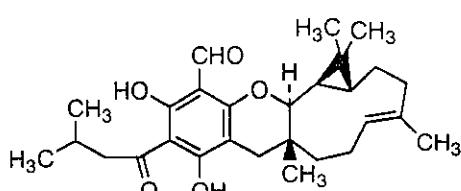
[分子式] $C_{23}H_{30}O_5$

[分子量] 454.605

[天然基原] *Eucalyptus globulus*

[用途] 強い肉芽形成抑制因子

[比旋光度]: $[\alpha]_D^{20} -137$ (c, 1.0 in CHCl₃)



Absolute configuration

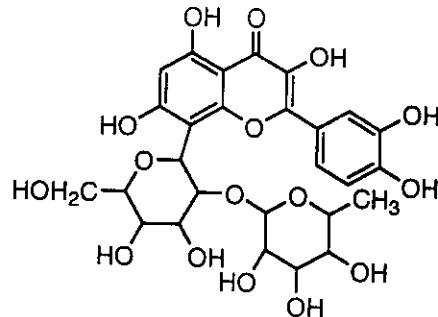
文献

Kozuka, M. et al., Chem. Pharm. Bull., 1982, 30, 1964

§ 8-Glucosyl-3',4',5,7-pentahydroxyflavone; 2''-O- α -L-Rhamnopyranoside

[CAS No.] 182062-20-0

[化合物分類] フラボノイド (Flavonols; 5 × O-置換基)
[構造式]



[分子式] $C_{27}H_{30}O_{16}$

[分子量] 610.524

[天然基原] *Eucalyptus globulus* の葉

[性状] 黄色の粉末

UV: [neutral] λ_{max} 256 ; 302 ; 374 (MeOH)

文献

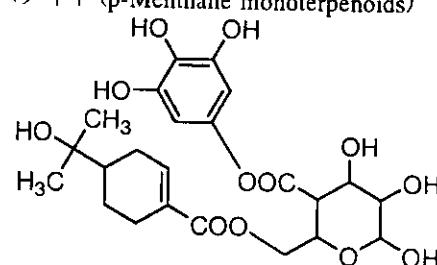
Mangro, L.O.A. et al., Nat. Prod. Lett., 1995, 7, 163, (分離, UV, IR, H-NMR, C13-NMR, Mass)

§ 8-Hydroxy-p-menth-1-en-7-oic acid; (S)-form, [3,4,5-Trihydroxybenzoyl-(→ 1)-β-D-glucopyranos-6-yl] ester

[化学名・別名] Eucaglobulin

[CAS No.] 241130-84-7

[化合物分類] タンニン化合物 (Simple gallate ester tannins), テルペノイド (p-Menthane monoterpenoids)
[構造式]



[分子式] $C_{23}H_{30}O_{12}$

[分子量] 498.483

[天然基原] *Eucalyptus globulus*

[性状] 無定型の淡褐色粉末

文献

Panizzi, L. et al., Gazz. Chim. Ital., 1965, 95, 1279, (構造決定)

Drabdina, A.A. et al., Zh. Obshch. Khim., 1971, 41, 1412; CA, 75, 88770h, (合成法)

Manns, D. et al., Planta Med., 1994, 60, 467, (glycosyl ester, H-NMR, C13-NMR)

Hou, A.J. et al., Chin. Chem. Lett., 1998, 9, 541-543, (Eucaglobulin)

§ 3-Hydroxy-12-oleanen-28-oic acid; 3 β-form, 3-(4-Methoxycinnamoyl) (Z)-, Me ester

[CAS No.] 189140-50-9

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

[構造式]

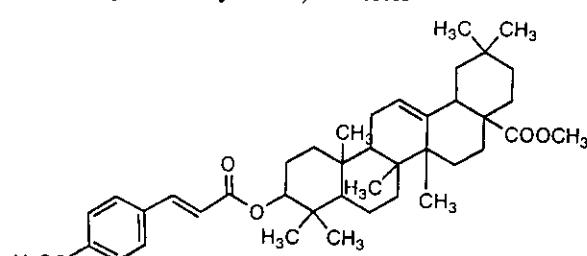
[分子式] $C_{44}H_{68}O_5$

[分子量] 630.906

[天然基原] *Eucalyptus globulus*

[性状] 結晶

[融点] Mp 208-209 °C



文献

Odinokova, L.E. et al., Khim. Prir. Soedin., 1985, 270-271, (3,4-dihydroxycinnamoyl)

Santos, G.G. et al., Phytochemistry, 1997, 44, 1309, (methoxycinnamoyl ester)

§ 4-Hydroxy-16,18-tritriacontanedione

[CAS No.] 97191-41-8

[化合物分類] 脂肪族化合物 (Saturated unbranched aldehydes and ketones)

[構造式] $H_3C(CH_2)_nCOCH_2CO(CH_2)_nCH(OH)CH_2CH_2CH_3$

[分子式] $C_{13}H_{24}O_3$

[分子量] 508.867

[天然基原] *Eucalyptus globulus* の葉のワックス

文献

Osawa, T. et al., J. Agric. Food Chem., 1985, 33, 777, (生育)

§ 18-Hydroxy-16-tritriacontanone

[CAS No.] 97191-42-9

[化合物分類] 脂肪族化合物 (Saturated unbranched aldehydes and ketones)

[構造式] $\text{H}_3\text{C}(\text{CH}_2)_{14}\text{CH}(\text{OH})\text{CH}_2\text{CO}(\text{CH}_2)_{14}\text{CH}_3$

[分子式] $\text{C}_{28}\text{H}_{46}\text{O}_2$

[分子量] 494.883

[天然基原] *Eucalyptus globulus* の葉のワックス

文献

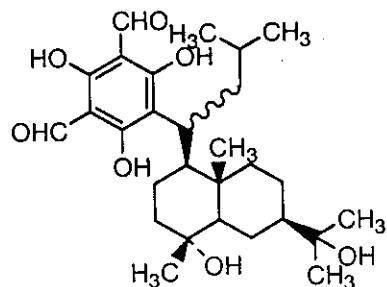
Osawa, T. et al., J. Agric. Food Chem., 1985, 33, 777, (生育)

§ Macrocarpal I

[CAS No.] 179388-54-6

[化合物分類] テルペノイド (Meroterpenoids)

[構造式]



[分子式] $\text{C}_{28}\text{H}_{42}\text{O}_7$

[分子量] 490.636

[天然基原] *Eucalyptus globulus*

[性状] 青白い黄色の粉末

[比旋光度]: $[\alpha]_D -49.1$ (c, 0.028 in EtOH)

文献

Osawa, K. et al., J. Nat. Prod., 1996, 59, 823-827, (分離, H-NMR, C13-NMR)

Osawa, K. et al., Chem. Pharm. Bull., 1997, 45, 1216-1217, (絶対構造)

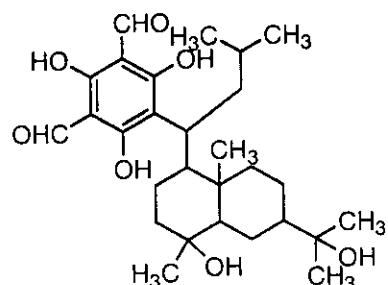
§ Macrocarpal I; 9'-Epimer

[化学名・別名] Macrocarpal J

[CAS No.] 179603-47-5

[化合物分類] テルペノイド (Meroterpenoids)

[構造式]



[分子式] $\text{C}_{28}\text{H}_{42}\text{O}_7$

[分子量] 490.636

[天然基原] *Eucalyptus globulus*

[性状] 青白い黄色の粉末

[比旋光度]: $[\alpha]_D -62.5$ (c, 0.048 in EtOH)

文献

Osawa, K. et al., J. Nat. Prod., 1996, 59, 823-827, (分離, H-NMR, C13-NMR)

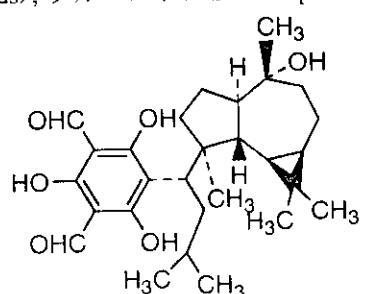
Osawa, K. et al., Chem. Pharm. Bull., 1997, 45, 1216-1217, (絶対構造)

§ Macrocarpal B

[CAS No.] 142698-60-0

[化合物分類] テルペノイド (Aromadendrane sesquiterpenoids), テルペノイド (Meroterpenoids)

[構造式]



[分子式] $\text{C}_{28}\text{H}_{40}\text{O}_6$

[分子量] 472.62

[天然基原] *Eucalyptus globulus*, *Eucalyptus macrocarpa*

[性状] 結晶

[融点] Mp 198-200 °C

[比旋光度]: $[\alpha]_D^{25} -17.5$ (c, 1.2 in EtOH)

文献

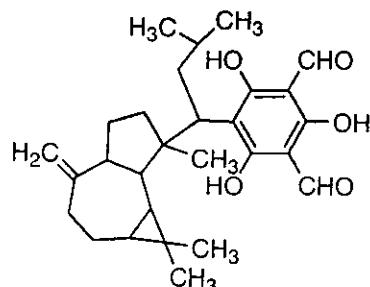
- Murata, M. et al., Agric. Biol. Chem., 1990, 54, 3221, (分離, H-NMR, C13-NMR, 結晶構造)
Yamakoshi, Y. et al., Biosci., Biotechnol., Biochem., 1992, 56, 1570, (分離, H-NMR, C13-NMR)
Nishizawa, M. et al., Tet. Lett., 1992, 33, 2983, (分離, H-NMR, C13-NMR, 結晶構造)
Tanaka, T. et al., Chem. Comm., 1997, 2401-2402, (合成法)
Tanaka, T. et al., J.O.C., 1998, 63, 9782-9793, (合成法)

§ Macrocarpal B; 10-Deoxy, 10,14-didehydro

[化学名・別名] Macrocarpal C

[CAS No.] 142628-53-3

[化合物分類] テルペノイド(Aromadendrane sesquiterpenoids), テルペノイド(Meroterpenoids)
[構造式]



[分子式] $C_{20}H_{30}O_5$

[分子量] 454.605

[天然基原] 次の植物から分離: *Eucalyptus globulus*

[性状] 無定型の塊

[比旋光度]: $[\alpha]_D^{25} -3$ (c, 0.92 in EtOH)

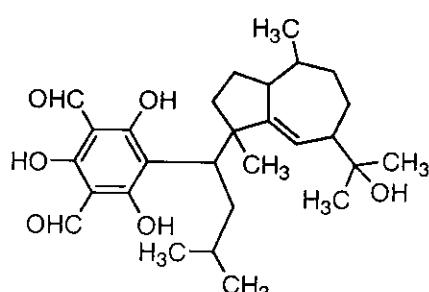
文献

- Murata, M. et al., Agric. Biol. Chem., 1990, 54, 3221, (分離, H-NMR, C13-NMR, 結晶構造)
Yamakoshi, Y. et al., Biosci., Biotechnol., Biochem., 1992, 56, 1570, (分離, H-NMR, C13-NMR)
Nishizawa, M. et al., Tet. Lett., 1992, 33, 2983, (分離, H-NMR, C13-NMR, 結晶構造)
Tanaka, T. et al., Chem. Comm., 1997, 2401-2402, (合成法)
Tanaka, T. et al., J.O.C., 1998, 63, 9782-9793, (合成法)

§ Macrocarpal D

[化合物分類] テルペノイド(Meroterpenoids), テルペノイド(Simple guaiane sesquiterpenoids), テルペノイド(Pachydictyane diterpenoids)

[構造式]



[分子式] $C_{20}H_{30}O_6$

[分子量] 472.62

[天然基原] *Eucalyptus globulus*

[性状] 無定型の塊

[比旋光度]: $[\alpha]_D^{25} -13.2$ (c, 1 in EtOH)

文献

- Nishizawa, M. et al., Tet. Lett., 1992, 33, 2983, (分離, H-NMR, C13-NMR)

§ Macrocarpal E

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

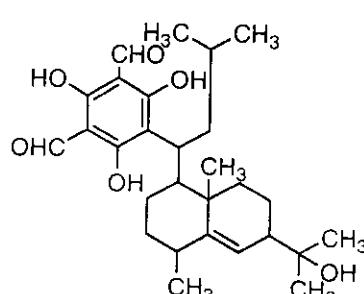
[構造式]

[分子式] $C_{20}H_{30}O_6$

[分子量] 472.62

[天然基原] *Eucalyptus globulus*

[性状] 無定型の塊



文献

Nishizawa, M. et al., Tet. Lett., 1992, 33, 2983, (分離, H-NMR, C13-NMR)

§ Macrocarpal H

[CAS No.] 179388-53-5

[化合物分類] テルペノイド (Meroterpenoids)

[構造式]

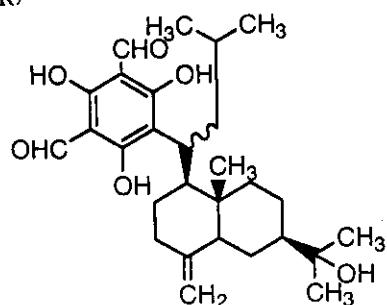
[分子式] $C_{28}H_{46}O_6$

[分子量] 472.62

[天然基原] *Eucalyptus globulus*

[性状] 青白い黄色の粉末

[比旋光度]: $[\alpha]_D -39.2$ (*c*, 0.02 in EtOH)



文献

Osawa, K. et al., J. Nat. Prod., 1996, 59, 823-827, (分離, H-NMR, C13-NMR)

Osawa, K. et al., Chem. Pharm. Bull., 1997, 45, 1216-1217, (絶対構造)

§ 2(10)-Pinen-3-ol; (1S,3R,5S)-form

[化学名・別名] (-)-trans-form

[CAS No.] 547-61-5

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

[構造式]

[分子式] $C_{10}H_{16}O$

[分子量] 152.236

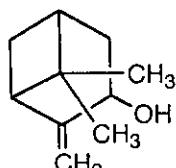
[天然基原] *Eucalyptus globulus* のオイル、また *Sium latifugum*, *Torilis japonica*, *Costus speciosus* からも得られる

[性状] オイル

[融点] Mp 5 °C

[沸点] Bp 209-210 °C. Bp 72 °C

[販売元] Fluka:80613



文献

Bose, A.K., J.O.C., 1955, 20, 1003, (構造決定)

Banthorpe, D.V. et al., Chem. Rev., 1966, 66, 643, (レビュー)

§ 2(10)-Pinen-3-one; (-)-form

[CAS No.] 19890-00-7

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

[構造式]

[分子式] $C_{10}H_{14}O$

[分子量] 150.22

[天然基原] 次の植物から分離: *Eucalyptus globulus* のオイル, *Chenopodium ambrosioides*, *Nepeta ciliaris*

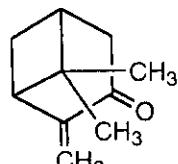
[用途] キクイムシの性誘因物質

[性状] オイル

[融点] Mp-1.8 °C

[沸点] Bp, 67-69 °C

[比旋光度]: $[\alpha]_D -68.5$



文献

Banthorpe, D.V. et al., Chem. Rev., 1966, 66, 643, (レビュー)

Bessiegravere-Chreacutetien, Y. et al., Bull. Soc. Chim. Fr., 1971, 2591, (合成法)

Jefford, C.W. et al., Helv. Chim. Acta, 1973, 56, 2649, (合成法)

§ 13,15-Triacontanedione

[CAS No.] 81116-08-7

[化合物分類] 脂肪族化合物 (Saturated unbranched aldehydes and ketones)

[販売元] $H_3C(CH_2)_{14}COCH_2CO(CH_2)_{14}CH_3$

[分子式] $C_{30}H_{58}O_2$

[分子量] 450.787

[天然基原] コーヒー, *Eucalyptus globulus*

[用途] 食物の抗酸化剤

[天然基原] コーヒー, *Eucalyptus globulus*

[用途] 食物の抗酸化剤

文献

Japan. Pat., 1981, 81 151 486; CA, 96, 141433n, (分離, 性質)

Ablanque, E. et al., CA, 1989, 110, 209458q, (分離)

*****ユキノシタ (Yukinoshita) *****

§ § ユキノシタ科ユキノシタ (*Saxifraga stolonifera* Meerburg) の全草。

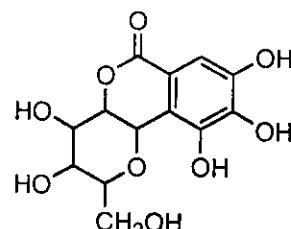
§ Bergenin; O-De-Me

[化学名・別名] Norbergenin. Desmethylbergenin. Demethylbergenin

[CAS No.] 79595-97-4

[化合物分類] ベンゾピラノイド (Pyrano-2-benzopyrans)

[構造式]



[分子式] C₁₃H₁₄O₆

[分子量] 314.248

[天然基原] *Woodfordia fruticosa*, *Saxifraga stolonifera*, *Mallotus japonicus*

[性状] プリズム結晶もしくは針状結晶 (H₂O) (dimorph.)

[融点] Mp 277-278 °C (275-277 °C (分解)) (prisms). Mp 178-180 °C (needles)

[比旋光度]: [α]_D²⁵ -22.9 (c, 0.393 in H₂O)

[その他のデータ] Incorrect (enantiomeric) abs. config. shown in the paper descr. this compd.

文献

Karrer, W. et al., Konstitution und Vorkommen der Organischen Pflanzenstoffe, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 1395, (生育)

Kalidhar, S.B. et al., Indian J. Chem., Sect. B, 1981, 20, 720, (Norbergenin)

Taneyama, M. et al., Phytochemistry, 1983, 22, 1053, (Norbergenin)

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

[化学名・別名] Quercetin 5-glucoside. Saxifragin

[CAS No.] 34199-21-8

[化合物分類] フラボノイド (Flavonols; 5 × O-置換基)

[構造式]

[分子式] C₂₁H₂₀O₁₂

[分子量] 464.382

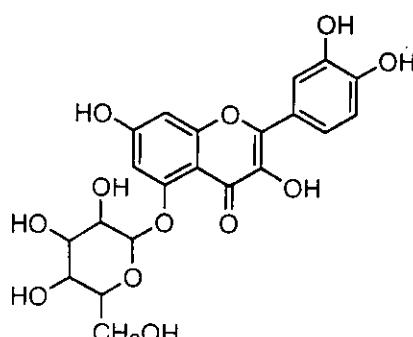
[天然基原] 次の植物の葉から分離: *Saxifraga stolonifera*, その他の植物

[性状] 黄色の針状結晶 (MeOH/Py)

[融点] Mp 244-246 °C で分解 (264 °C)

[比旋光度]: [α]_D²⁵ -105 (c, 0.575 in Py)

[その他のデータ] May be identical with Serotonin and Incarnatrin descr. in 1910 from *Prunus serotina* and *Trifolium incarnatum* resp. (Power and Moore: Rogerson)



Morita, N. et al., Chem. Pharm. Bull., 1974, 22, 1487, (Saxifragin)

IARC Monog., 1983, 31, 213; Suppl. 7, 71, (レビュー, 毒性)

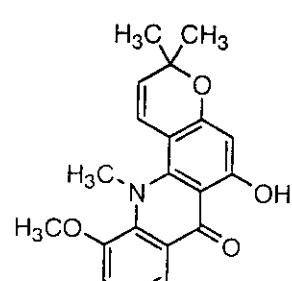
*****ユズ (Yuzu) *****

§ § ミカン科ユズ (*Citrus junos* Siebold ex Tanaka) の果実。

§ Acronycine; O-De-Me, 5-methoxy

[化学名・別名] 5-Methoxynoracronycine

[化合物分類] アルカロイド化合物 (Acridone alkaloids)



[天然基原] 次の植物から得られるアルカロイド: *Citrus junos* の樹皮 (ミカン科)
[性状] 淡黄色のプリズム結晶
[融点] Mp 146-148 °C

文献

Ju-ichi, M. et al., Heterocycles, 1986, 24, 1595, (5-Methoxynoracronycine)

§ Bicyclogermacrene

[CAS No.] 24703-35-3

[化合物分類] テルペノイド (Lepidozanes and bicyclogermacrene sesquiterpenoids)

[構造式]

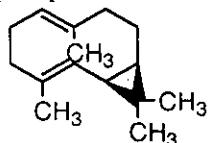
[分子式] C₁₅H₂₄

[分子量] 204.355

[天然基原] *Citrus junos* の皮のオイル

[性状] オイル

[比旋光度]: [α]_D +61 (CHCl₃)



文献

Nishimura, K. et al., Tetrahedron, 1973, 29, 271, (分離, 構造)

McMurtry, J.E. et al., J.O.C., 1987, 52, 4885, (合成法)

Ihara, M. et al., J.O.C., 1994, 59, 8092, (合成法)

Hardt, I.H. et al., Phytochemistry, 1995, 40, 605, (Isolepidozene)

§ 1(10),4,7(11)-Germacratriene; (1(10)E,4E)-form

[化学名・別名] Germacrene B. Germacratriene

[CAS No.] 15423-57-1

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

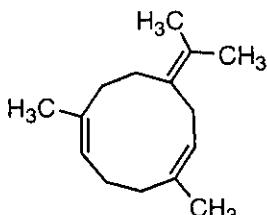
[構造式]

[分子式] C₁₅H₂₄

[分子量] 204.355

[天然基原] ユズ *Citrus junos* の皮のオイル

[性状] オイル



文献

Ognyanov, I. et al., Coll. Czech. Chem. Comm., 1958, 23, 2033, (合成法)

Allen, F.H. et al., Chem. Comm., 1967, 588, (結晶構造)

Nishimura, K. et al., Tet. Lett., 1969, 3097, (分離)

Minnaard, A.J. et al., J.O.C., 1997, 62, 7366-7345, (合成法)

§ 6-Hydroxy-2,6-dimethyl-2,7-octadien-4-one

[CAS No.] 64661-54-7

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

[構造式]

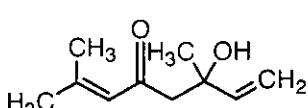
[分子式] C₁₀H₁₆O₂

[分子量] 168.235

[天然基原] *Citrus junos*

[性状] オイル

[沸点] Bp₇₇ 69-70 °C



Kitahara, T. et al., Agric. Biol. Chem., 1980, 44, 897, (分離)

§ 6-Hydroxy-2,6-dimethyl-7-octen-4-one; (+)-form

[CAS No.] 23007-34-3

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

[構造式]

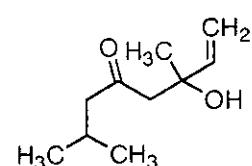
[分子式] C₁₀H₁₆O₂

[分子量] 170.251

[天然基原] 次の植物の精油から分離: *Cinnamomum camphora*, *Citrus junos*, *Zanthoxylum alatum*

[性状] 液体

[沸点] Bp₁ 72-74 °C



[天然基原] 次の植物の精油から分離: *Cinnamomum camphora*, *Citrus junos*, *Zanthoxylum alatum*
[性状] 液体

[沸点] B_p 72-74 °C

[比旋光度]: $[\alpha]_D^{25} +4.8$ (c, 3 in CCl_4)

文献

Yoshida, T. et al., Agric. Biol. Chem., 1969, 33, 343, (分離, H-NMR, 構造)

Kitahara, T. et al., Agric. Biol. Chem., 1980, 44, 897, (分離, 合成法)

Ahmad, A. et al., Fitoterapia, 1988, 59, 413, (分離)

§ 12-Hydroxy-9-dodecanoic acid; (Z)-form, Lactone

[化学名・別名] Oxacyclotridec-10-en-2-one (CAS名), 9-Dodecen-12-oxide, Yuzu lactone

[CAS No.] 79894-05-6

[その他の CAS No.] 79894-06-7

[化合物分類] 脂肪族化合物 (Unbranched alkenic carboxylic acids and lactones)

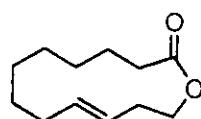
[構造式]

[分子式] $C_{12}H_{20}O_2$

[分子量] 196.289

[天然基原] *Citrus junos*, *Medicago rugosa*

[性状] オイル



文献

Doss, R.P. et al., Phytochemistry, 1989, 28, 3311-3315, (分離, lactone)

Suzuki, Y. et al., Biosci., Biotechnol., Biochem., 1995, 59, 2049, (分離, H-NMR, C13-NMR)

Rodefeld, L. et al., Tetrahedron, 1998, 54, 5893-5898, (lactone)

§ Junosidine

[化学名・別名] 2,11-Dihydro-5-hydroxy-10-methoxy-2,2,11-trimethyl-6H-pyrano[3,2-b]acridin-6-one (CAS名)

[CAS No.] 110883-39-1

[化合物分類] アルカロイド化合物 (Acridone alkaloids)

[構造式]

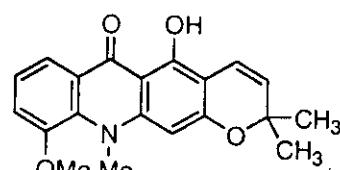
[分子式] $C_{20}H_{21}NO_4$

[分子量] 337.374

[天然基原] 次の植物から得られるアルカロイド: *Citrus junos* の根皮 (ミカン科)

[性状] 橙色の針状結晶

[融点] Mp 188-189 °C



文献

Ju-ichi, M. et al., Heterocycles, 1987, 26, 2077, (UV, H-NMR, 構造)

Takemura, Y. et al., Heterocycles, 1992, 34, 2123, (Yukocitrine)

§ Junosine

[化学名・別名] 1,3,5-Trihydroxy-10-methyl-2-(3-methyl-2-butenyl)-9(10H)-acridinone (CAS名), 1,3,5-Trihydroxy-10-methyl-2-prenylacridinone

[CAS No.] 103956-34-9

[化合物分類] アルカロイド化合物 (Acridone alkaloids)

[構造式]

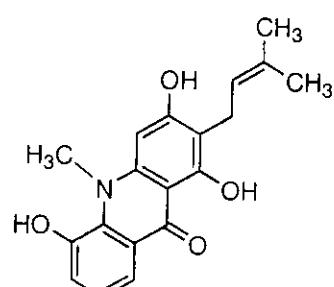
[分子式] $C_{19}H_{21}NO_4$

[分子量] 325.363

[天然基原] 次の植物から得られるアルカロイド: *Citrus junos* の樹皮 (ミカン科)

[性状] 淡黄色のプリズム結晶

[融点] Mp 210-213 °C



文献

Ju-ichi, M. et al., Heterocycles, 1986, 24, 1595, (Junosine)

Auzi, A.A. et al., Phytochemistry, 1996, 42, 235, (Bosistidine)

Ito, C. et al., Chem. Pharm. Bull., 2000, 48, 65-70, (Glycocitrine IV)

Wu, T.-S. et al., Chem. Pharm. Bull., 2000, 48, 85-90, (Buxifoliadine C)

8-substituted)

[構造式]

[分子式] $C_{19}H_{22}O_6$

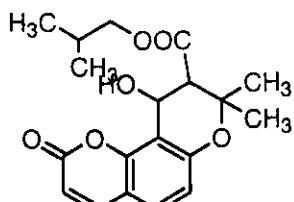
[分子量] 346.379

[天然基原] *Citrus junos*

[性状] オイル

[比旋光度]: $[\alpha]_D -16.4$ (CHCl₃)

[その他のデータ] Registered in CA as identical with Campesterol, which appears to be incorrect



文献

Ju-ichi, M. et al., Heterocycles, 1986, 24, 2777, (Junosmarin)

§ p-Mentha-1,8-dien-4-ol

[化学名・別名] 4-Methyl-1-(1-methylethenyl)-3-cyclohexen-1-ol (CAS名)

[CAS No.] 3419-02-1

[関連 CAS No.] 73069-45-1

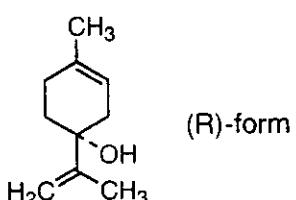
[化合物分類] テルペノイド (p-Mentane monoterpenoids)

[構造式]

[分子式] $C_{10}H_{16}O$

[分子量] 152.236

[天然基原] 次の植物から分離: 日本のコショウ (*Zanthoxylum piperitum*), ユズ (*Citrus junos*), スペアミント (*Mentha spicata*) のオイル



文献

Sakai, T. et al., Bull. Chem. Soc. Jpn., 1968, 41, 1945, (分離)

Naya, Y. et al., Heterocycles, 1978, 10, 29, (分離)

Delay, F. et al., Helv. Chim. Acta, 1979, 62, 2168, (合成法, H-NMR)

*****ユッカ (Yucca) *****

§ § ユリ科イトラン (ペアグラス) (*Yucca filamentosa* L.) の地上部および根茎部。

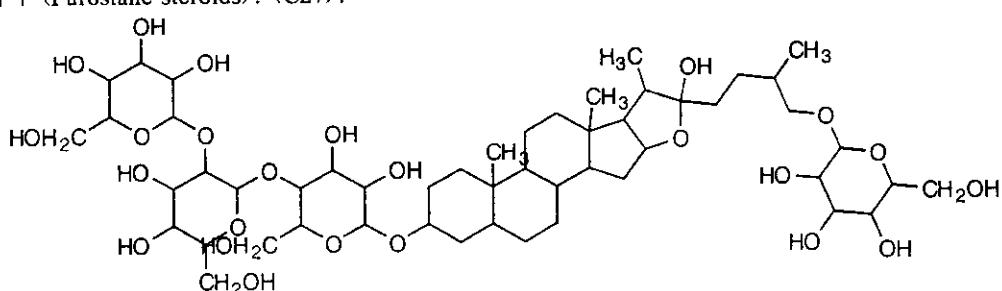
§ Furostane-3,22,26-triol; (3 β , 5 α , 22 α , 25S)-form, 3-O-[α -D-Galactopyranosyl-(1 \rightarrow 2)- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranoside], 26-O- β -D-glucopyranoside

[化学名・別名] Protoyuccoside C

[CAS No.] 55826-89-6

[化合物分類] ステロイド (Furostane steroids). (C27).

[構造式]



[分子式] $C_{51}H_{86}O_{24}$

[分子量] 1083.226

[天然基原] *Yucca filamentosa*, *Solanum lyratum*

[性状] 結晶

[融点] Mp 182-184 °C

[比旋光度]: $[\alpha]_D^{20} -30$ (c, 2 in MeOH)

文献

Dragalin, I.P. et al., Phytochemistry, 1975, 14, 1817, (Protoyuccoside C)

§ Furostane-3,22,26-triol; (3 β , 5 β , 22 α , 25S)-form, 3-O-[α -D-Galactopyranosyl-(1 \rightarrow 2)-[β -D-galactopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranosyl-(1 \rightarrow 4)- β -D-glucopyranoside], 26-O- β -D-glucopyranoside