

[比旋光度]: $[\alpha]_D^{25} +26.9$ (c, 0.045 in CHCl_3)
[化学物質毒性データ総覧 (RTECS) 登録番号] VW7790000

-----文献-----

Wang, C. et al., Huaxue Xuebao, 1981, 39, 421; CA, 96, 82687, (Yuanhuadin)

***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 : 腹腔内投与.

被験動物 : げっ歯類-マウス.

投与量・期間 : 1300 ug/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

Shengzhi Yu Biyun. Reproduction and Contraception. (China International Book Trading Corp., POB 2820, Beijing, Peop. Rep. China) 9 (2), 48, 1989

§ 12-Hydroxydaphnetoxin; 12 β -form, 12-Benzoyl

[化学名・別名] Genkwadaphnin

[CAS No.] 55073-32-0

[化合物分類] テルペノイド (Daphnane diterpenoids), 薬物: 抗腫瘍薬 (Antineoplastic agents)

[構造式]

[分子式] $\text{C}_{28}\text{H}_{34}\text{O}_{10}$

[分子量] 602.637

[基原] 次の植物から分離: *Daphne genkwa*

[用途] 抗白血病性作用

[性状] 無定型

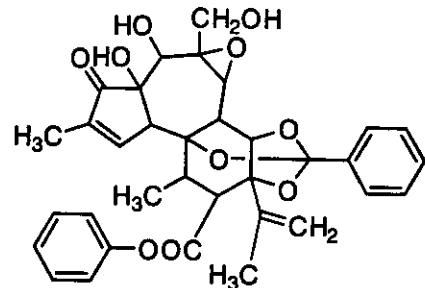
[比旋光度]: $[\alpha]_D^{25} +63.8$ (c, 0.92 in CHCl_3)

[溶解性] BERDY SOL: ヘキサンに難溶

[Log P 計算値] Log P 1.15 (未確認値) (計算値)

UV: [neutral] λ_{max} 230 (ϵ 19600) (EtOH) (Derep) [neutral] λ_{max} 230 (ϵ 19600) (EtOH) (Berdy)

[化学物質毒性データ総覧 (RTECS) 登録番号] HB5425400



-----文献-----

Kasai, R. et al., Phytochemistry, 1981, 20, 2592, (Genkwadaphnin)

Taninaka, H. et al., Phytochemistry, 1999, 52, 1525-1529, (Genkwadaphnin palmitate, Gnidicin palmitate)

***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>> DNA 阻害.

試験系 : ヒトの細胞 (種は未特定).

投与量・期間 : 3060 nmol/L

参考文献

European Journal of Cancer and Clinical Oncology. (Pergamon Press, c/o Elsevier Science, 660 White Plains Rd., Tarrytown, NY 10591) 22,45,1986

<<試験方法>> DNA 阻害.

試験系 : げっ歯類-マウス白血球.

投与量・期間 : 4900 nmol/L

参考文献

European Journal of Cancer and Clinical Oncology. (Pergamon Press, c/o Elsevier Science, 660 White Plains Rd., Tarrytown, NY 10591) 22,45,1986

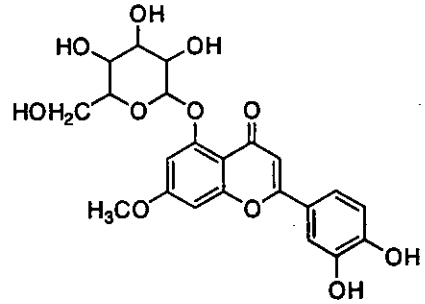
§ 3',4',5-Trihydroxy-7-methoxyflavone; 5-O- β -D-Glucopyranoside

[化学名・別名] Yuanhuanin

[CAS No.] 83133-14-6

[化合物分類] フラボノイド (Flavones; 6 \times O-置換基)

[構造式]



[分子式] $C_{22}H_{22}O_{11}$

[分子量] 462.409

[基原] 次の植物から分離: *Daphne sericea*, *Daphne genkwa*

----- 文献 -----

Ulubelen, A. et al., *Phytochemistry*, 1982, 21, 801, (Yuanhuanin)

*****フスマ (Bran) *****

§ § イネ科コムギ (*Triticum aestivum* L.) の焙煎した種皮。

「コクルイ」参照

*****フーゼル油 (Fusel oil) *****

§ § 炭水化物、果汁などのアルコール発酵の副産物。(その他) アルコール発酵液を精留し、後留分から捕集する。

*****プチグレイン (Petitgrain) *****

§ § ミカン科ダイダイ (*Citrus aurantium* L.) の葉、小枝及び小さな青い果実。

「オレンジ」参照

*****ブチュ (Buchu) *****

§ § ミカン科ブッコノキ (*Agathosma betulina* (Berg.) Pillans) の枝葉。

§ 3-Hydroxy-*p*-menth-3-en-2-one

[化学名・別名] 2-Hydroxy-6-methyl-3-(1-methylethyl)-2-cyclohexen-1-one (CAS 名), ψ -Diosphenol.

Pseudodiosphenol

[CAS No.] 54783-36-7

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

[構造式]

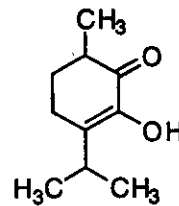
[分子式] $C_{10}H_{16}O_2$

[分子量] 168.235

[基原] *Agathosma betulina* の葉オイル

[性状] オイル

[沸点] Bp: 93-98 °C



----- 文献 -----

Kaiser, R. et al., *J. Agric. Food Chem.*, 1975, 23, 943, (分離)

Ohashi, M. et al., *Bull. Chem. Soc. Jpn.*, 1976, 49, 2292, (合成法, IR, H-NMR)

Utaka, M. et al., *Chem. Lett.*, 1980, 779

§ § ミカン科 (*Barosma crenulata* (L.) Hooker) の枝葉。

本調査研究では、成分に関する文献はなかった。

§ § ミカン科ロングブチュ (*Barosma serratifolia* Willdenow) の枝葉。

本調査研究では、成分に関する文献はなかった。

*****ブドウ (Grape) *****

§ § ブドウ科ブドウ (*Vitis vinifera* L.) の果実。

§ Ampelopsin D

[CAS No.] 149418-37-1

[化合物分類] 単環芳香族 (Stilbene polymers)

[構造式]

[分子式] $C_{28}H_{22}O_6$

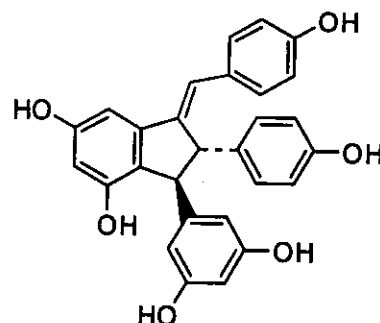
[分子量] 454.478

[一般的性質] 化学構造は次の化合物とにている: Cyphostemmin B

[基原] *Ampelopsis brevipedunculata* var. *hancei*, *Vitis vinifera*

[性状] 無定型の粉末

[比旋光度]: $[\alpha]_D^{22} -5$ (c, 0.27 in MeOH)



-----文献-----

Oshima, Y. et al., *Phytochemistry*, 1993, 33, 179-182, (分離, H-NMR, C13-NMR)

Adesanya, S.A. et al., *J. Nat. Prod.*, 1999, 62, 1694-1695, (構造決定)

Niwa, M. et al., *Heterocycles*, 2000, 53, 1475-1478, (H-NMR, C13-NMR, 絶対構造)

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

[CAS No.] 88510-11-6

[化合物分類] 炭水化物 (Disaccharides),

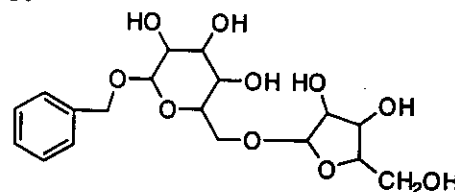
単環芳香族 (Simple benzyl alcohols)

[構造式]

[分子式] $C_{18}H_{26}O_{10}$

[分子量] 402.397

[基原] 次の植物から分離: *Vitis vinifera*



-----文献-----

Karrer, W. et al., *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 248, (生育)

Opdyke, D.L.J., *Food Cosmet. Toxicol.*, 1973, 11, 1011, (レビュー, 毒性)

Lewis, R.J., *Food Additives Handbook*, Van Nostrand Reinhold International, New York, 1989, BDX000; BDX500

§ 6,9-Dihydroxy-4,7-megastigmadien-3-one; (6 ξ , 7E, 9 ξ)-form, 9-O- β -D-Glucopyranoside

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

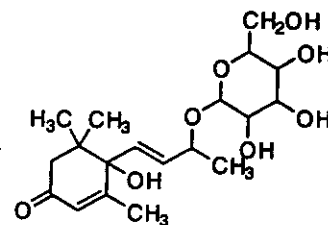
[構造式]

[分子式] $C_{19}H_{30}O_8$

[分子量] 386.441

[基原] *Vitis vinifera* cv. Gewürztraminer

[その他のデータ] 2 Anomers isol.



-----文献-----

Sefton, M.A. et al., *Phytochemistry*, 1992, 31, 1813-1815, (9-glucoside)

§ 6,9-Dihydroxy-4,7-megastigmadien-3-one; (6 ξ , 7E, 9 ξ)-form, 9-O-[β -D-Apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]

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

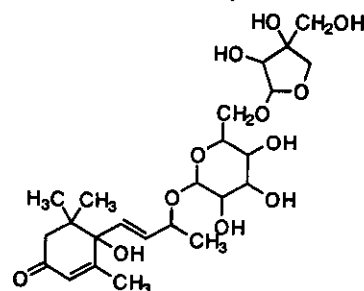
[構造式]

[分子式] $C_{24}H_{38}O_{12}$

[分子量] 518.557

[基原] *Vitis vinifera* cv. Gewürztraminer

[その他のデータ] 2 Anomers isol.



-----文献-----

Sefton, M.A. et al., *Phytochemistry*, 1992, 31, 1813-1815, (9-glucoside)

§ 3,4-Dihydroxy-5-megastigmen-9-one; 3-O-β-D-Glucopyranoside

[化学名・別名] Icariside B₈

[CAS No.] 126176-78-1

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

[構造式]

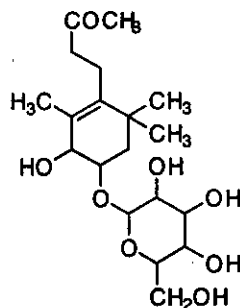
[分子式] C₁₉H₃₂O₈

[分子量] 388.457

[基原] *Epimedium diphyllum*, *Vitis vinifera* の葉 (Riesling)

[用途] 1,1,6-Trimethyl-1,2-dihydronaphthalene の主な前駆物質

[比旋光度]: [α]_D²³ -60.9 (c, 0.64 in MeOH)



----- 文献 -----

Miyase, T. et al., *Phytochemistry*, 1989, 28, 3483, (分離, H-NMR, C13-NMR)

Roscher, R. et al., *J. Agric. Food Chem.*, 1993, 41, 1452, (分離)

§ 6,9-Dihydroxy-7-megastigmen-3-one; (5ξ,6S,7E,9R)-form

[化学名・別名] 4,5-Dihydrovomifoliosil

[CAS No.] 142173-08-8

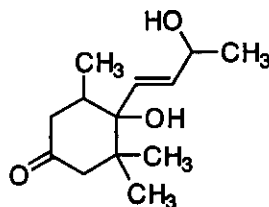
[化合物分類] テルペノイド (Megastigmane norterpeneoids)

[構造式]

[分子式] C₁₃H₂₂O₃

[分子量] 226.315

[基原] *Vitis vinifera* grapes



----- 文献 -----

Inada, A. et al., *Chem. Pharm. Bull.*, 1991, 39, 2437, (分離, H-NMR, C13-NMR)

Gonzaacutetez, A.G. et al., *J. Nat. Prod.*, 1994, 57, 400, (分離, H-NMR, C13-NMR)

Baltenweck-Guyot, R. et al., *Phytochemistry*, 1996, 43, 621, (*Vitis vinifera* glycosides)

Tamaki, A. et al., *J. Nat. Prod.*, 1999, 62, 1074-1076, (Platanionoside C)

§ 3,16-Dihydroxy-12-oleanen-28-oic acid; (3β,16β)-form, 3-Ketone

[化学名・別名] 16-Hydroxy-3-oxo-12-oleanen-28-oic acid

[CAS No.] 77625-71-9

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

[構造式]

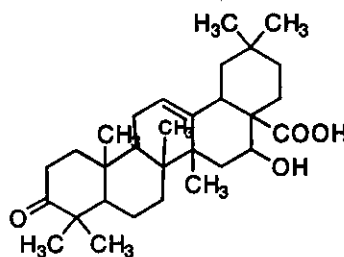
[分子式] C₃₀H₄₈O₄

[分子量] 470.691

[基原] 次の植物から分離: *Vitis vinifera*

[性状] 結晶

[融点] Mp 212-214 °C



----- 文献 -----

Djerassi, C. et al., *J.A.C.S.*, 1955, 77, 3579; 1957, 79, 3525, (分離, 構造決定)

§ 3-(3,5-Dihydroxyphenyl)-5-[2-(3,5-dihydroxyphenyl)ethenyl]-2,3-dihydro-2-(4-hydroxyphenyl)benzofuran; (2S,3R)-(E)-form

[CAS No.] 204076-78-8

[化合物分類] 単環芳香族 (Stilbene polymers)

[構造式]

[分子式] C₂₈H₂₂O₆

[分子量] 454.478

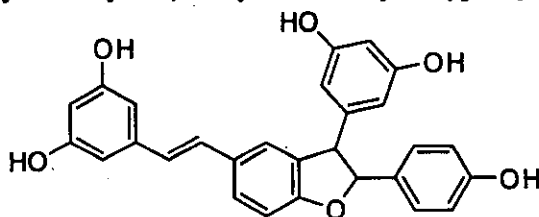
[基原] *Botrytis cinerea*, 次の植物から分離: *Vitis vinifera*

[用途] ファイトアレキシン

[性状] オイル

[比旋光度]: [α]_D -1.7 (c, 0.2 in MeOH)

UV: [neutral] λ_{max} 308 (MeOH)



----- 文献 -----

Breuil, A.-C. et al., *Tet. Lett.*, 1998, 39, 537-540, (isol, H-NMR, C13-NMR)

Cichewicz, R.H. et al., *J. Nat. Prod.*, 2000, 63, 29-33, (分離, H-NMR)

Waffo-Teguo, P. et al., J. Nat. Prod., 2001, 64, 136-138, (配糖体, 分離)

§ 3-(3,5-Dihydroxyphenyl)-5-[2-(3,5-dihydroxyphenyl) ethenyl]-2,3-dihydro-2-(4-hydroxyphenyl) benzofuran; (2S,3S)-(E)-form, 3''-O-β-D-Glucopyranoside

[CAS No.] 328090-92-2

[化合物分類] 単環芳香族 (Stilbene polymers)

[構造式]

[分子式] C₂₄H₃₂O₁₁

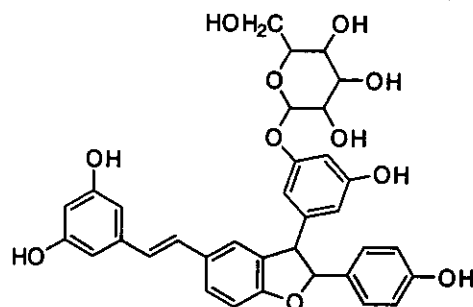
[分子量] 616.62

[基原] *Vitis vinifera* の細胞培養

[性状] 粉末

[比旋光度]: [α]_D²⁰ -18.9 (c, 0.38 in MeOH)

UV: [neutral] λ_{max} 204 (log ε 4.73); 221 (log ε 4.58); 309 (log ε 4.43); 320 (log ε 4.39) (MeOH)



-----文献-----

Breuil, A.-C. et al., Tet. Lett., 1998, 39, 537-540, (Isol, H-NMR, C13-NMR)

Cichewicz, R.H. et al., J. Nat. Prod., 2000, 63, 29-33, (分離, H-NMR)

Waffo-Teguo, P. et al., J. Nat. Prod., 2001, 64, 136-138, (配糖体, 分離)

§ 3-(3,5-Dihydroxyphenyl)-5-[2-(3,5-dihydroxyphenyl) ethenyl]-2,3-dihydro-2-(4-hydroxyphenyl) benzofuran; (2S,3S)-(E)-form, 3'''-O-β-D-Glucopyranoside

[CAS No.] 328090-94-4

[化合物分類] 単環芳香族 (Stilbene polymers)

[構造式]

[分子式] C₂₄H₃₂O₁₁

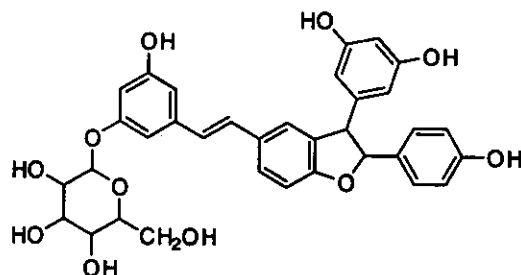
[分子量] 616.62

[基原] *Vitis vinifera* の細胞培養

[性状] 粉末

[比旋光度]: [α]_D²⁰ -12 (c, 0.05 in MeOH)

UV: [neutral] λ_{max} 206 (log ε 4.88); 309 (log ε 4.23); 322 (log ε 4.21) (MeOH)



-----文献-----

Breuil, A.-C. et al., Tet. Lett., 1998, 39, 537-540, (Isol, H-NMR, C13-NMR)

Cichewicz, R.H. et al., J. Nat. Prod., 2000, 63, 29-33, (分離, H-NMR)

Waffo-Teguo, P. et al., J. Nat. Prod., 2001, 64, 136-138, (配糖体, 分離)

§ 1-(3,5-Dihydroxyphenyl)-2-(4-hydroxyphenyl) ethylene; (E)-form

[CAS No.] 501-36-0

[化合物分類] 単環芳香族 (Stilbenes)

[構造式]

[分子式] C₁₄H₁₂O₃

[分子量] 228.247

[基原] 次の植物から得られるファイトアレキシン: *Veratrum grandiflorum* (根), *Pinus sibirica* (樹皮), *Vitis vinifera*, *Arachis hypogaea*. また *Eucalyptus*, *Polygonum* と *Nothofagus* spp., *Cudrania javanensis*

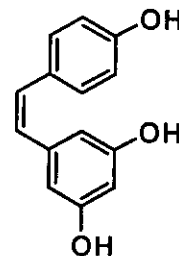
[用途] 殺菌性, bactericide. Resveratrol in red wines has been postulated to be associated with beneficial health effects. Shows Tyrosinase inhibitory activity

[性状] 結晶 (MeOH 溶液)

[融点] Mp 265-267 °C

UV: [neutral] λ_{max} 218 (21400); 227 (sh) (14800); 307 (27500); 320 (26900) (EtOH)

[販売元] Sigma:R5010



-----文献-----

Banks, H.J. et al., Aust. J. Chem., 1971, 24, 2427, (分離, 誘導体)

Murakami, T. et al., Tet. Lett., 1972, 2965, (分離, UV)

Kumar, N. et al., Phytochemistry, 1974, 13, 633, (分離)

Gromova, A.S. et al., Khim. Prir. Soedin., 1975, 11, 677; 1977, 13, 275; Chem. Nat. Compd. (Engl. Transl.), 1975, 11, 715; 1977, 13, 236, (Pinostilbenoside, Resveratrolside)

Ingham, J.L. et al., *Phytochemistry*, 1976, 15, 1791, (分離, UV, Mass)
 Aritomi, M. et al., *Phytochemistry*, 1976, 15, 2006, (分離, UV)
 Nonaka, G.-I. et al., *Chem. Pharm. Bull.*, 1977, 25, 2300, (分離, UV, IR, H-NMR, 誘導體)
 Nakajima, K. et al., *Chem. Pharm. Bull.*, 1978, 26, 3050, (分離, IR, UV, H-NMR)
 Gonzalez, A.G. et al., *Planta Med.*, 1988, 54, 184-185, (分離, tri-Me ether)
 Sotheeswaran, S. et al., *Phytochemistry*, 1993, 32, 1083, (レビュー, 成書)
 Powell, R.G. et al., *Phytochemistry*, 1994, 35, 335, (生育)
 Jayatilake, G.S. et al., *J. Nat. Prod.*, 1995, 58, 1958, (分離, triacetate, H-NMR, C13-NMR)
 Orsini, F. et al., *J. Nat. Prod.*, 1997, 60, 1082-1087, (Piceid, 合成法, 分離, H-NMR, C13-NMR)

§ 1-(3,5-Dihydroxyphenyl)-2-(4-hydroxyphenyl) ethylene; (Z)-form, 3-O-β-D-Glucopyranoside

[化学名・別名] *cis*-Piceid

[CAS No.] 148766-36-3

[化合物分類] 単環芳香族 (Stilbenes)

[構造式]

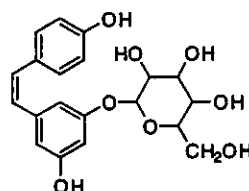
[分子式] $C_{20}H_{22}O_8$

[分子量] 390.389

[基原] *Ampelopsis brevipedunculata*, *Vitis vinifera*

[性状] 結晶 (MeOH 溶液)

[融点] Mp 126-129 °C



----- 文 献 -----

Banks, H.J. et al., *Aust. J. Chem.*, 1971, 24, 2427, (分離, 誘導體)
 Murakami, T. et al., *Tet. Lett.*, 1972, 2965, (分離, UV)
 Kumar, N. et al., *Phytochemistry*, 1974, 13, 633, (分離)
 Ingham, J.L. et al., *Phytochemistry*, 1976, 15, 1791, (分離, UV, Mass)
 Aritomi, M. et al., *Phytochemistry*, 1976, 15, 2006, (分離, UV)
 Nonaka, G.-I. et al., *Chem. Pharm. Bull.*, 1977, 25, 2300, (分離, UV, IR, H-NMR, 誘導體)
 Nakajima, K. et al., *Chem. Pharm. Bull.*, 1978, 26, 3050, (分離, IR, UV, H-NMR)
 Gonzalez, A.G. et al., *Planta Med.*, 1988, 54, 184-185, (分離, tri-Me ether)
 Sotheeswaran, S. et al., *Phytochemistry*, 1993, 32, 1083, (レビュー, 成書)
 Jayatilake, G.S. et al., *J. Nat. Prod.*, 1995, 58, 1958, (分離, triacetate, H-NMR, C13-NMR)
 Orsini, F. et al., *J. Nat. Prod.*, 1997, 60, 1082-1087, (Piceid, 合成法, 分離, H-NMR, C13-NMR)

§ 1-(3,5-Dihydroxyphenyl)-2-(4-hydroxyphenyl) ethylene; (Z)-form, 4'-O-β-D-Glucopyranoside

[CAS No.] 151716-27-7

[化合物分類] 単環芳香族 (Stilbenes)

[構造式]

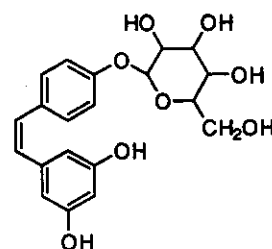
[分子式] $C_{20}H_{22}O_8$

[分子量] 390.389

[基原] *Vitis vinifera*

[性状] 結晶 (MeOH 溶液)

[融点] Mp 140-143 °C



----- 文 献 -----

Banks, H.J. et al., *Aust. J. Chem.*, 1971, 24, 2427, (分離, 誘導體)
 Murakami, T. et al., *Tet. Lett.*, 1972, 2965, (分離, UV)
 Ingham, J.L. et al., *Phytochemistry*, 1976, 15, 1791, (分離, UV, Mass)
 Aritomi, M. et al., *Phytochemistry*, 1976, 15, 2006, (分離, UV)
 Nonaka, G.-I. et al., *Chem. Pharm. Bull.*, 1977, 25, 2300, (分離, UV, IR, H-NMR, 誘導體)
 Nakajima, K. et al., *Chem. Pharm. Bull.*, 1978, 26, 3050, (分離, IR, UV, H-NMR)
 Steynberg, J.P. et al., *J.C.S. Perkin 1*, 1988, 37, (3,4'-di-Me ether rutinoside)
 Gonzalez, A.G. et al., *Planta Med.*, 1988, 54, 184-185, (分離, tri-Me ether)
 Jayatilake, G.S. et al., *J. Nat. Prod.*, 1993, 56, 1805, (H-NMR, 性質, 合成法, *cis*-isomers)
 Gonzalez, M.J.T.G. et al., *Phytochemistry*, 1993, 32, 433, (3-Hydroxy-4',5-dimethoxystilbene)
 Sotheeswaran, S. et al., *Phytochemistry*, 1993, 32, 1083, (レビュー, 成書)
 Jayatilake, G.S. et al., *J. Nat. Prod.*, 1995, 58, 1958, (分離, triacetate, H-NMR, C13-NMR)
 Orsini, F. et al., *J. Nat. Prod.*, 1997, 60, 1082-1087, (Piceid, 合成法, 分離, H-NMR, C13-NMR)

§ 2,6-Dimethyl-3,7-octadiene-2,6-diol; 3,4-Dihydro

[化学名・別名] 2,6-Dimethyl-7-octene-2,6-diol. 3,7-Dimethyl-1-octene-3,7-diol

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

[構造式]

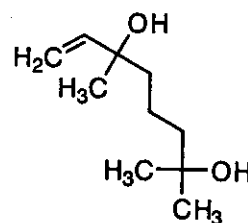
[分子式] $C_{10}H_{20}O_2$

[分子量] 172.267

[基原] *Vitis vinifera*

[性状] 結晶

[融点] Mp 51-52 °C



----- 文献 -----

Takaoka, D. et al., *Phytochemistry*, 1976, 15, 330, (分離, H-NMR)

Williams, P.J. et al., *Phytochemistry*, 1980, 19, 1137, (dihydro)

Bruno, M. et al., *Phytochemistry*, 1988, 27, 1871, (分離)

§ 3,7-Dimethyl-1,6-octadien-3-ol; (R)-form, O-β-D-Glucopyranoside

[CAS No.] 99096-59-0

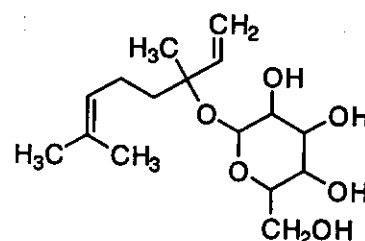
[化合物分類] テルペノイド (Acyclic monoterpenoids)

[構造式]

[分子式] $C_{18}H_{28}O_6$

[分子量] 316.394

[基原] ブドウ (*Vitis vinifera*)



----- 文献 -----

Naves, Y.R. et al., *Helv. Chim. Acta*, 1963, 46, 1056; 2551, (分離, UV)

Karrer, W. et al., *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 120, (生育)

Opdyke, D.L.J., *Food Chem. Toxicol.*, 1975, 13, 827; 833; 835; 839; 1976, 14, 459; 461; 463; 1978, 16, 811, (レビュー, 成書, esters)

Williams, P.J. et al., *Phytochemistry*, 1982, 21, 2013, (分離, 配糖体)

Uchiyama, T. et al., *Phytochemistry*, 1989, 28, 3369, (分離)

§ 3,7-Dimethyl-1,6-octadien-3-ol; (ξ)-form, O-[α-L-Arabinofuranosyl-(1→6)-β-D-glucopyranoside]

[CAS No.] 84543-11-3

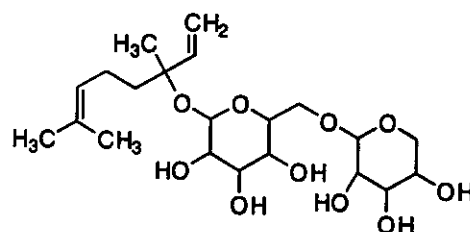
[化合物分類] テルペノイド (Acyclic monoterpenoids)

[構造式]

[分子式] $C_{21}H_{36}O_{10}$

[分子量] 448.509

[基原] ブドウ (*Vitis vinifera*)



----- 文献 -----

Naves, Y.R. et al., *Helv. Chim. Acta*, 1963, 46, 1056; 2551, (分離, UV)

Karrer, W. et al., *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 120, (生育)

Opdyke, D.L.J., *Food Chem. Toxicol.*, 1975, 13, 827; 833; 835; 839; 1976, 14, 459; 461; 463; 1978, 16, 811, (レビュー, 成書, esters)

Uchiyama, T. et al., *Phytochemistry*, 1989, 28, 3369, (分離)

§ 3,7-Dimethyl-1,6-octadien-3-ol; (ξ)-form, O-[α-L-Rhamnopyranosyl-(1→6)-β-D-glucopyranoside]

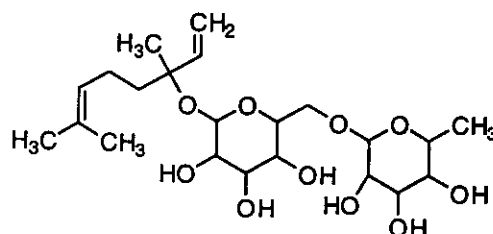
[CAS No.] 84534-33-8

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

[構造式]

[分子式] $C_{22}H_{38}O_{10}$

[分子量] 462.536



[基原]ブドウ (*Vitis vinifera*)

-----文献-----

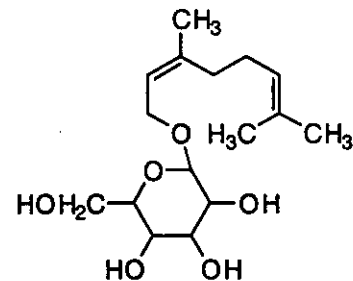
- Naves, Y.R. et al., *Helv. Chim. Acta*, 1963, 46, 1056; 2551, (分離, UV)
Karrer, W. et al., *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 120, (生育)
Opdyke, D.L.J., *Food Chem. Toxicol.*, 1975, 13, 827; 833; 835; 839; 1976, 14, 459; 461; 463; 1978, 16, 811, (レビュー, 成書, esters)
Williams, P.J. et al., *Phytochemistry*, 1982, 21, 2013, (分離, 配糖体)
Uchiyama, T. et al., *Phytochemistry*, 1989, 28, 3369, (分離)
Manns, D., *Phytochemistry*, 1995, 39, 1115, (配糖体, 分離)

§ 3,7-Dimethyl-2,6-octadien-1-ol; (*E*)-form, *O*- β -D-Glucopyranoside

[CAS No.] 22850-13-1

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

[構造式]



[分子式] $C_{16}H_{28}O_6$

[分子量] 316.394

[基原] 次の植物から分離: *Rosa* spp., *Pelargonium graveolens*, ブドウ (*Vitis vinifera*)

-----文献-----

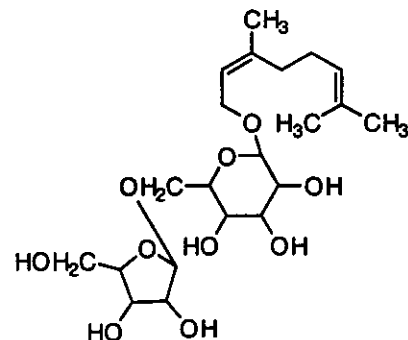
- Francis, M.J.O. et al., *Phytochemistry*, 1969, 8, 1339, (分離, 配糖体)
Bohlmann, F. et al., *Chem. Ber.*, 1973, 106, 2904, (分離)
Opdyke, D.L.J., *Food Cosmet. Toxicol.*, 1974, 12, 881, (レビュー, 毒性, Geraniol)
Opdyke, D.L.J., *Food Cosmet. Toxicol., Suppl.*, 1976, 14, 783; 785, (レビュー, esters)
Bohlmann, F. et al., *Phytochemistry*, 1980, 19, 149, (分離)
Ackermann, I.E. et al., *Annalen*, 1989, 79, (合成法, 配糖体)

§ 3,7-Dimethyl-2,6-octadien-1-ol; (*E*)-form, *O*-[α -L-Arabinofuranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside]

[CAS No.] 84534-32-7

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

[構造式]



[分子式] $C_{21}H_{36}O_{10}$

[分子量] 448.509

[基原] ブドウ (*Vitis vinifera*)

-----文献-----

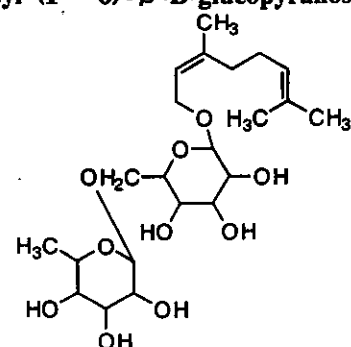
- Francis, M.J.O. et al., *Phytochemistry*, 1969, 8, 1339, (分離, 配糖体)
Opdyke, D.L.J., *Food Cosmet. Toxicol.*, 1974, 12, 881, (レビュー, 毒性, Geraniol)
Opdyke, D.L.J., *Food Cosmet. Toxicol., Suppl.*, 1976, 14, 783; 785, (レビュー, esters)
Bohlmann, F. et al., *Phytochemistry*, 1980, 19, 149, (分離)
Ackermann, I.E. et al., *Annalen*, 1989, 79, (合成法, 配糖体)

§ 3,7-Dimethyl-2,6-octadien-1-ol; (*E*)-form, *O*-[α -L-Rhamnopyranosyl-(1 \rightarrow 6)]- β -D-glucopyranoside]

[CAS No.] 84534-31-6

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

[構造式]



[分子式] $C_{22}H_{38}O_{10}$

[分子量] 462.536

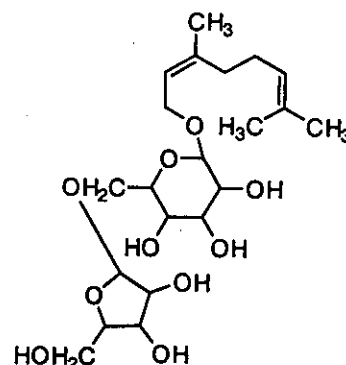
[基原] ブドウ (*Vitis vinifera*)

-----文献-----

- Francis, M.J.O. et al., *Phytochemistry*, 1969, 8, 1339, (分離, 配糖体)
 Bohlmann, F. et al., *Chem. Ber.*, 1973, 106, 2904, (分離)
 Bohlmann, F. et al., *Phytochemistry*, 1980, 19, 149, (分離)
 Ackermann, I.E. et al., *Annalen*, 1989, 79, (合成法, 配糖体)

§ 3,7-Dimethyl-2,6-octadien-1-ol; (Z)-form, O-[α-L-Arabinofuranosyl-(1 → 6)-β-D-glucopyranoside]

[CAS No.] 84582-22-9
 [化合物分類]テルペノイド (Acyclic monoterpenoids)
 [構造式]



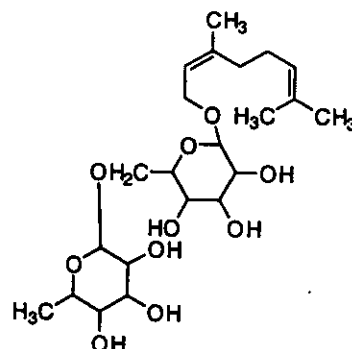
[分子式] C₂₁H₃₆O₁₀
 [分子量] 448.509
 [基原] ブドウ (*Vitis vinifera*)

-----文献-----

- Francis, M.J.O. et al., *Phytochemistry*, 1969, 8, 1339, (分離, 配糖体)
 Bohlmann, F. et al., *Chem. Ber.*, 1973, 106, 2904, (分離)
 Opdyke, D.L.J., *Food Cosmet. Toxicol.*, 1974, 12, 881, (レビュー, 毒性, Geraniol)
 Opdyke, D.L.J., *Food Cosmet. Toxicol., Suppl.*, 1976, 14, 783; 785, (レビュー, esters)
 Bohlmann, F. et al., *Phytochemistry*, 1980, 19, 149, (分離)
 Ackermann, I.E. et al., *Annalen*, 1989, 79, (合成法, 配糖体)

§ 3,7-Dimethyl-2,6-octadien-1-ol; (Z)-form, O-[α-L-Rhamnopyranosyl-(1 → 6)-β-D-glucopyranoside]

[CAS No.] 84582-21-8
 [化合物分類]テルペノイド (Acyclic monoterpenoids)
 [構造式]



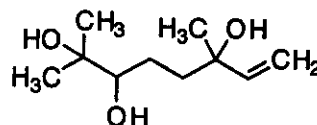
[分子式] C₂₂H₃₈O₁₀
 [分子量] 462.536
 [基原] ブドウ (*Vitis vinifera*)

-----文献-----

- Francis, M.J.O. et al., *Phytochemistry*, 1969, 8, 1339, (分離, 配糖体)
 Karrer, W. et al., *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd edn., Birkhäuser Verlag, Basel, 1972, nos. 118; 119, (生育)
 Bohlmann, F. et al., *Chem. Ber.*, 1973, 106, 2904, (分離)
 Opdyke, D.L.J., *Food Cosmet. Toxicol.*, 1974, 12, 881, (レビュー, 毒性, Geraniol)
 Opdyke, D.L.J., *Food Cosmet. Toxicol., Suppl.*, 1976, 14, 783; 785, (レビュー, esters)
 Bohlmann, F. et al., *Phytochemistry*, 1980, 19, 149, (分離)
 Ackermann, I.E. et al., *Annalen*, 1989, 79, (合成法, 配糖体)

§ 2,6-Dimethyl-7-octene-2,3,6-triol

[CAS No.] 73815-21-1
 [化合物分類]テルペノイド (Acyclic monoterpenoids)
 [構造式]



[分子式] C₁₀H₂₀O₃
 [分子量] 188.266
 [基原] *Vitis vinifera*, *Cunila spicata*
 [性状] オイル
 [沸点] Bp: 126-128 °C

-----文献-----

- Manns, D. et al., *Phytochemistry*, 1995, 39, 1115, (分離, H-NMR, C13-NMR)
 Kitajima, J. et al., *Chem. Pharm. Bull.*, 1999, 47, 639-642, (6-glucoside)

Abe, F. et al., Chem. Pharm. Bull., 2000, 48, 1090-1092, (3-glucoside)

§ 3,7-Dimethyl-6-octen-1-ol; (R)-form, O-β-D-Glucopyranoside

[CAS No.] 117895-55-3

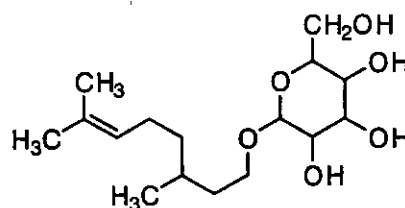
[化合物分類] アミノ酸とペプチド (Non-protein α-aminoacids)

[構造式]

[分子式] C₁₆H₃₀O₆

[分子量] 318.409

[基原] ブドウ (*Vitis vinifera*)



----- 文献 -----

Karrer, W. et al., Konstitution und Vorkommen der Organischen Pflanzenstoffe, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 111, (生育)

Wollmann, H. et al., Pharmazie, 1973, 28, 56, (分離)

Opdyke, D.L.J., Food Cosmet. Toxicol., 1975, 13, 757-758, (レビュー, 毒性)

Bauer, K. et al., Common Fragrance and Flavor Materials, Preparation, Properties and Uses, VCH, Weinheim, 2nd. edn., 1990, 25, (レビュー)

Ford, R.A. et al., Food Chem. Toxicol., 1992, 30, 113S-114S, (レビュー, 毒性)

§ 3,7-Dimethyl-6-octen-1-ol; (S)-form, O-β-D-Glucopyranoside

[CAS No.] 99096-57-8

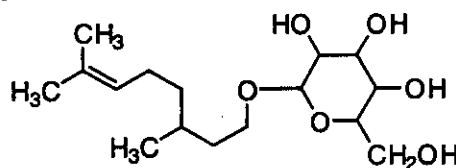
[化合物分類] テルペノイド (Acyclic monoterpenoids)

[構造式]

[分子式] C₁₆H₃₀O₆

[分子量] 318.409

[基原] ブドウ (*Vitis vinifera*)



----- 文献 -----

Karrer, W. et al., Konstitution und Vorkommen der Organischen Pflanzenstoffe, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 111, (生育)

Wollmann, H. et al., Pharmazie, 1973, 28, 56, (分離)

Opdyke, D.L.J., Food Cosmet. Toxicol., 1975, 13, 757-758, (レビュー, 毒性)

Ackermann, I.E. et al., Annalen, 1989, 79-81, (合成法, 配糖体)

Bauer, K. et al., Common Fragrance and Flavor Materials, Preparation, Properties and Uses, VCH, Weinheim, 2nd. edn., 1990, 25, (レビュー)

Ford, R.A. et al., Food Chem. Toxicol., 1992, 30, 113S-114S, (レビュー, 毒性)

§ Ergosta-5,7-dien-3-ol; (3β,24S)-form

[化学名・別名] 22,23-Dihydroergosterol. Provitamin D.

[CAS No.] 516-79-0

[化合物分類] ステロイド (Ergostane steroids; excluding withanolides and brassinolides). (C28).

[構造式]

[分子式] C₂₈H₄₆O

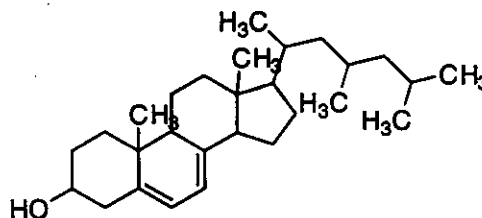
[分子量] 398.671

[基原] *Saccharomyces cerevisiae*. また *Claviceps purpurea* の脂質, *Vitis vinifera* の種子オイル, *Polyporus* spp.

[性状] 結晶 + H₂O (EtOAc/MeOH)

[融点] Mp 152-153 °C

[比旋光度]: [α]_D -128.7 (c, 0.4 in CHCl₃)



----- 文献 -----

Barton, D.H.R. et al., J.C.S. Perkin 1, 1974, 1326, (分離)

§ 5-Ethoxy-4,5-dihydro-2(3H) furanone (CAS 名)

[化学名・別名] 4-Ethoxy-4-hydroxybutyric acid γ-lactone. 4-Ethoxy-γ-butyrolactone

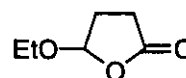
[CAS No.] 932-85-4

[化合物分類] 含酸素複素環式化合物 (Butanolides)

[構造式]

[分子式] C₆H₁₀O₃

[分子量] 130.143



[基原] An aroma component of Ruby Cabernet wine from the European grape *Vitis vinifera*

-----文献-----

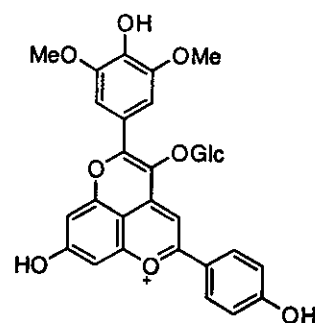
Muller, C.J. et al., J. Agric. Food Chem., 1972, 20, 193, (分離, 合成法, IR, Mass)

Lukehart, C.M. et al., J. Organomet. Chem., 1976, 105, 231, (合成法, IR, H-NMR)

§ 4-Glucosyloxy-8-hydroxy-5-(4-hydroxy-3,5-dimethoxyphenyl)-2-(4-hydroxyphenyl)pyrano[4,3,2-de]-1-benzopyrylium (1+)

[化合物分類] フラボノイド (Pyranoanthocyanidins)

[構造式]



[分子式] $C_{31}H_{29}O_{13}$ (*)

[分子量] 609.562

[天然基原] ブドウ *Vitis vinifera* から作られた赤ワインから分離される色素

UV: [neutral] λ_{max} 507 (溶媒の報告はない)

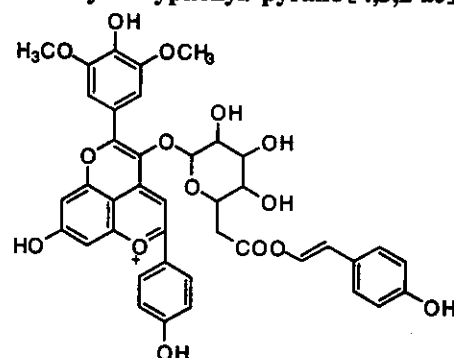
-----文献-----

Fulcrand, H. et al., J.C.S. Perkin 1, 1996, 735-739, (分離, UV, H-NMR, Mass)

§ 4-Glucosyloxy-8-hydroxy-5-(4-hydroxy-3,5-dimethoxyphenyl)-2-(4-hydroxyphenyl)pyrano[4,3,2-de]-1-benzopyrylium (1+); 6'''-O-(4-Hydroxycinnamoyl) (E-)

[化合物分類] フラボノイド (Pyranoanthocyanidins)

[構造式]



[分子式] $C_{40}H_{35}O_{15}$ (*)

[分子量] 755.708

[天然基原] ブドウ *Vitis vinifera* から作られた赤ワインから分離される色素

-----文献-----

Fulcrand, H. et al., J.C.S. Perkin 1, 1996, 735-739, (分離, UV, H-NMR, Mass)

§ Hexacosanal

[CAS No.] 26627-85-0

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

[構造式] $H_3C(CH_2)_{22}CHO$

[分子式] $C_{23}H_{46}O$

[分子量] 380.696

[基原] 次の植物から分離: *Vitis vinifera* var. *sultana*

[性状] 結晶 (MeOH)

[融点] Mp 73-73.5 °C

-----文献-----

Crabbeacute, P. et al., Bull. Soc. Chim. Belg., 1961, 70, 168, (合成法, IR)

Radler, F. et al., Aust. J. Chem., 1965, 18, 1059, (分離)

§ Hopeaphenol; 7,7'-Diepimer

[化学名・別名] Isohopeaphenol

[化合物分類] 単環芳香族 (Stilbene polymers)

[構造式]

[分子式] $C_{36}H_{42}O_{12}$

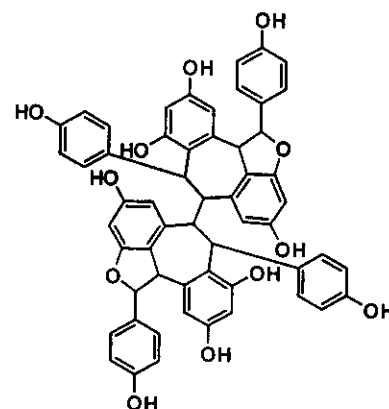
[分子量] 906.941

[基原] 次の植物から分離: *Vitis vinifera*

[性状] 淡褐色の粉末

[比旋光度]: $[\alpha]_D -114.5$ (c, 0.4 in MeOH)

UV: [neutral] λ_{max} 210 (ϵ 98800); 229 (ϵ 66600); 284 (ϵ 16800) (MeOH)



-----文献-----

Ito, J. et al., *Heterocycles*, 1997, 45, 1809-1813, (Isohopeaphenol)

§ 9-Hydroxy-4-megastigmen-3-one; (6*R*,9*R*)-form, *O*-β-D-Glucopyranoside

[化学名・別名] Blumenol C glucoside

[CAS No.] 62512-23-6

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

[構造式]

[分子式] C₁₉H₃₂O₇

[分子量] 372.458

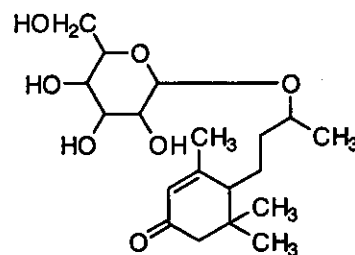
[基原] 次の植物から分離: *Epimedium grandiflorum*, *Vitis vinifera* Riesling leaves

[用途] Potential aroma-relevant glycoconjugate

[性状] 無定型の粉末

[比旋光度]: [α]_D²² +46.8 (c, 0.63 in MeOH)

UV: [neutral] λ_{max} 240 (log ε 3.98) (MeOH)



-----文献-----

Galbraith, M.N. et al., *Chem. Comm.*, 1972, 113-114, (分離, Blumenol C)

Aasen, A.J. et al., *Acta Chem. Scand., Ser. B*, 1974, 28, 285-288, (分離, 合成法, Blumenol C)

Demole, E. et al., *Helv. Chim. Acta*, 1974, 57, 2087-2091, (合成法, Blumenol C)

Miyase, T. et al., *Chem. Pharm. Bull.*, 1988, 36, 2475-2484, (Blumenol C glucoside)

Roscher, R. et al., *J. Agric. Food Chem.*, 1993, 41, 1452-1457, (Blumenol glucoside)

§ 9-Hydroxy-7-megastigmen-3-one; *O*-β-D-Glucopyranoside

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

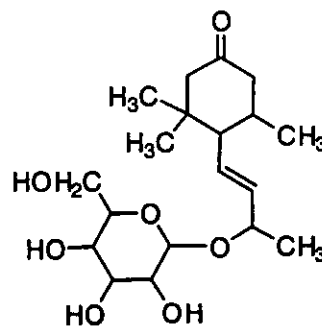
[構造式]

[分子式] C₁₉H₃₂O₇

[分子量] 372.458

[基原] 次の植物から分離: *Vitis vinifera* Riesling leaves as a major vine leaf constit.

[用途] Potential precursor of quince aroma volatiles (megastigma-6,8-dien-3-ones)



-----文献-----

Sefton, M.A. et al., *J. Agric. Food Chem.*, 1990, 38, 2045

Roscher, R. et al., *J. Agric. Food Chem.*, 1993, 41, 1452

§ 16-Hydroxy-3-oxo-1,12-oleanadien-28-oic acid; 16 β-form

[CAS No.] 77625-72-0

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

[構造式]

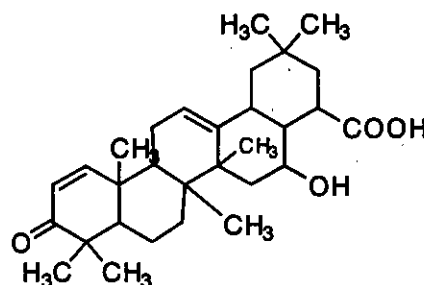
[分子式] C₃₀H₄₄O₄

[分子量] 468.675

[基原] *Vitis vinifera*

[性状] 結晶 (MeOH) (as Me ester, Ac)

[融点] Mp 175-177 °C (Me ester, Ac)



-----文献-----

Brieskorn, C.H. et al., *CA*, 1981, 94, 188662k, (分離, H-NMR, C13-NMR)

§ 2-[4-(3-Hydroxypropyl)-2-methoxyphenoxy]-1,3-propanediol

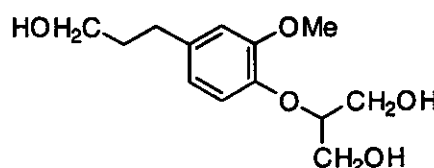
[化合物分類] 単環芳香族 (Simple phenylpropanoids)

[構造式]

[分子式] C₁₃H₂₀O₅

[分子量] 256.298

[基原] *Vitis vinifera* cv. Gewurztraminer



-----文献-----

Kouno, I. et al., *Phytochemistry*, 1993, 32, 1573, (分離)

Baltenweck-Guyot, R. et al., *J. Agric. Food Chem.*, 2000, 48, 6178-6182, (分離, H-NMR, C13-NMR, Mass)

§ *p*-Menth-1-en-8-ol; (*R*)-form, *O*-β-D-Glucopyranoside

[CAS No.] 114673-99-3

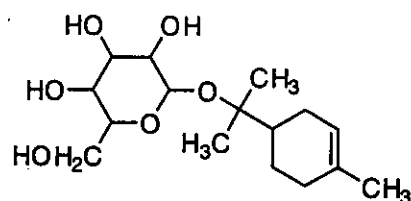
[化合物分類]テルペノイド (*p*-Menthane monoterpeneoids)

[構造式]

[分子式] C₁₆H₂₆O₆

[分子量] 316.394

[基原] *Citrus* sp., ブドウ (*Vitis vinifera*)



----- 文献 -----

Karrer, W. et al., *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 299, (生育)

Ackermann, I. et al., *Annalen*, 1989, 79, (合成法, 配糖体)

Fenaroli's *Handbook of Flavor Ingredients*, 3rd edn., (ed. Burdock, G.A.), CRC Press, 1995, 2, 735; 737; 738; 739; 740, (レビュー)

§ *p*-Menth-1-en-8-ol; (*S*)-form, *O*-β-D-Glucopyranoside

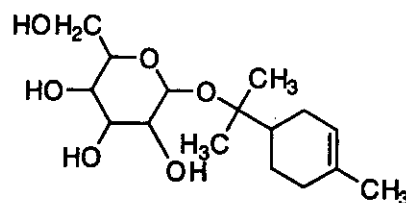
[CAS No.] 89616-07-9

[化合物分類]テルペノイド (*p*-Menthane monoterpeneoids)

[構造式]

[分子量] 316.394

[基原] ブドウ (*Vitis vinifera*)



----- 文献 -----

Karrer, W. et al., *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 299, (生育)

Ackermann, I. et al., *Annalen*, 1989, 79, (合成法, 配糖体)

Fenaroli's *Handbook of Flavor Ingredients*, 3rd edn., (ed. Burdock, G.A.), CRC Press, 1995, 2, 735; 737; 738; 739; 740, (レビュー)

§ 2-Methyl-2-butene-1,4-diol; (*Z*)-form, 1-*O*-β-D-Glucopyranoside

[化学名・別名] Illicifolinoside A

[化合物分類]テルペノイド (Hemiterpenoids)

[構造式]

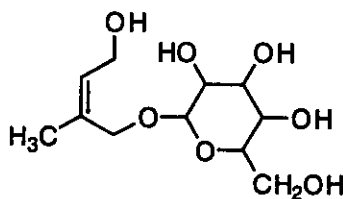
[分子式] C₁₁H₂₀O₇

[分子量] 264.275

[基原] *Vitis vinifera*, *Maytenus ilicifolia*

[性状] オイル

[比旋光度]: [α]_D -55.2 (MeOH)



----- 文献 -----

Zhu, N. et al., *Phytochemistry*, 1998, 47, 265-268, (Illicifolinoside A)

§ 2-Methyl-2-butene-1,4-diol; (*Z*)-form, 4-*O*-β-D-Glucopyranoside

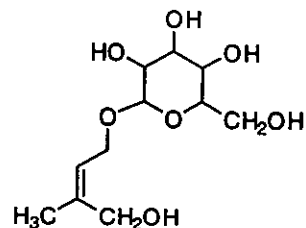
[化合物分類]テルペノイド (Hemiterpenoids)

[構造式]

[分子式] C₁₁H₂₀O₇

[分子量] 264.275

[基原] *Vitis vinifera*



----- 文献 -----

Messerer, M. et al., *Nat. Prod. Lett.*, 1995, 5, 241, (分離, 配糖体)

Zhu, N. et al., *Phytochemistry*, 1998, 47, 265-268, (Illicifolinoside A)

§ 3-Methyl-2-buten-1-ol; *O*-[β-D-Apiofuranosyl-(1 → 6)-β-D-glucopyranoside]

[CAS No.] 198832-70-1

[化合物分類] テルペノイド (Hemiterpenoids)

[構造式]

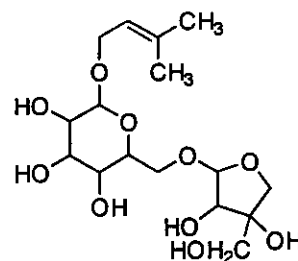
[分子式] $C_{16}H_{28}O_{10}$

[分子量] 380.391

[基原] ワイン (*Vitis vinifera*), *Bupleurum falcatum*

[性状] 粉末

[比旋光度]: $[\alpha]_D^{26} -66.2$ (c, 2 in MeOH)



-----文献-----

Naves, Y.-R. et al., Bull. Soc. Chim. Fr., 1971, 886, (分離)

Opdyke, D.L.J., Food Cosmet. Toxicol., 1979, 17, 895, (レビュー, 毒性)

Vani, P.V.S.N. et al., Synth. Commun., 2001, 31, 219-224, (合成法, H-NMR)

Lewis, R.J., Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold, 1992, DOQ350; MHU110

§ 3-Methyl-3-buten-1-ol; O- $[\beta$ -D-Apiofuranosyl-(1 \rightarrow 6)- β -D-glucopyranoside]

[CAS No.] 198832-72-3

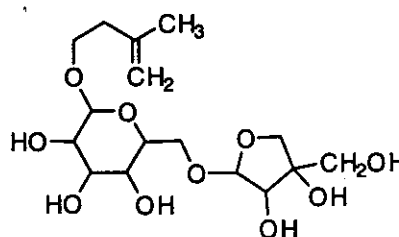
[化合物分類] テルペノイド (Hemiterpenoids)

[構造式]

[分子式] $C_{16}H_{28}O_{10}$

[分子量] 380.391

[基原] ワイン (*Vitis vinifera* cv. Gewurtztraminer)



-----文献-----

Naves, Y.-R., Bull. Soc. Chim. Fr., 1971, 886, (分離)

Greenaway, W. et al., Z. Naturforsch., C, 1992, 47, 477-480; 773-775, (分離, ferulate)

Suemmchen, P. et al., Phytochemistry, 1995, 40, 599, (分離, esters)

Baltenweck-Guyot, R. et al., J. Nat. Prod., 1997, 60, 1326-1327, (6-apiofuranosylglucoside)

§ Octacosanal

[CAS No.] 22725-64-0

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

[構造式] $H_3C(CH_2)_{26}CHO$

[分子式] $C_{28}H_{56}O$

[分子量] 408.75

[基原] 次の植物から分離: ブドウ (*Vitis vinifera*) のワックス, キャベツの葉 (*Brassica oleracea*)

-----文献-----

Radler, F. et al., Aust. J. Chem., 1965, 18, 1059, (分離)

Schmid, H.H.O. et al., Hoppe Seyler's Z. Physiol. Chem., 1969, 350, 462, (分離)

§ 3,3',4',5,7-Pentahydroxyflavanone; (2R,3R)-form, 3-O- α -L-Rhamnopyranoside

[化学名・別名] Astilbin

[CAS No.] 29838-67-3

[化合物分類] フラボノイド (Dihydroflavonols; 5 \times O-置換基)

[構造式]

[分子式] $C_{27}H_{22}O_{11}$

[分子量] 450.398

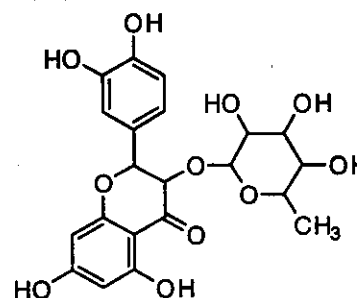
[基原] *Taxillus kaempferi*, *Vitis vinifera*, *Encryphia cordifolia*, *Astilbe*,

Quintinia, *Litsea* spp., その他

[性状] 針状結晶 (EtOH)

[融点] Mp 179-180 $^{\circ}C$

[比旋光度]: $[\alpha]_D^{25} +4$ (50% Me₂CO 溶液)



-----文献-----

De Britto, J. et al., Chem. Pharm. Bull., 1995, 43, 338, (Astilbin, Neoastilbin, Neoisoastilbin)

Gaffield, W., Chem. Pharm. Bull., 1996, 44, 1102, (Astilbins)

Ohmori, K. et al., Tet. Lett., 2000, 41, 5537-5541, (合成法, Astilbin)

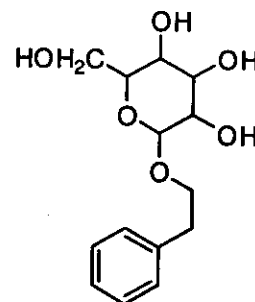
§ 2-Phenylethanol; *O*- α -D-Glucopyranoside

[化学名・別名] 2-Phenylethyl α -D-glucopyranoside. Phenethyl α -D-glucoside

[CAS No.] 105088-18-4

[化合物分類] 単環芳香族 (Phenylacetic acid derivatives)

[構造式]



[分子式] $C_{14}H_{20}O_6$

[分子量] 284.308

[基原] *Rosa damascena bulgaria*, *Vitis vinifera* cv. Riesling

文献

Karrer, W. et al., *Konstitution und Vorkommen der Organischen Pflanzenstoffe*, 2nd edn., Birkhäuser Verlag, Basel, 1972, no. 251, (生育)

Kozawa, M. et al., *Chem. Pharm. Bull.*, 1983, 31, 2712-2717, (Phenethyl ferulate)

Bangov, I.P. et al., *Org. Magn. Reson.*, 1983, 21, 443, (C13-NMR)

§ 2-Phenylethanol; *O*- β -D-Galactopyranoside

[化学名・別名] 2-Phenylethyl galactopyranoside. Phenethyl galactoside

[CAS No.] 14861-16-6

[その他の CAS No.] 55520-11-1

[化合物分類] 単環芳香族 (Phenylacetic acid derivatives)

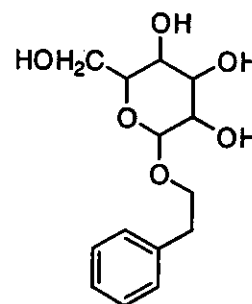
[構造式]

[分子式] $C_{14}H_{20}O_6$

[分子量] 284.308

[基原] *Rosa damascena bulgaria*, *Vitis vinifera* cv. Riesling

文献



Kozawa, M. et al., *Chem. Pharm. Bull.*, 1983, 31, 2712-2717, (Phenethyl ferulate)

Son, S. et al., *Chem. Pharm. Bull.*, 2001, 49, 236-238, (Phenethyl caffeate, synth, cryst struct, bibl)

§ Triacontanal (CAS 名)

[CAS No.] 22725-63-9

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

[構造式] $H_3C(CH_2)_{28}CHO$

[分子式] $C_{30}H_{60}O$

[分子量] 436.803

[基原] 次の植物から分離: ベリー類 *Vitis vinifera*, *Brassica oleracea* の葉, リンゴ上皮のワックス

文献

Radler, F. et al., *Aust. J. Chem.*, 1965, 18, 1059

Schmid, H.H.O. et al., *Hoppe Seyler's Z. Physiol. Chem.*, 1969, 350, 462, (分離)

Japan. Pat., 1982, 59 95 236; CA, 101, 170706f, (合成法)

§ Viniferal

[CAS No.] 180413-42-7

[化合物分類] 単環芳香族 (Stilbene polymers)

[構造式]

[分子式] $C_{33}H_{26}O_8$

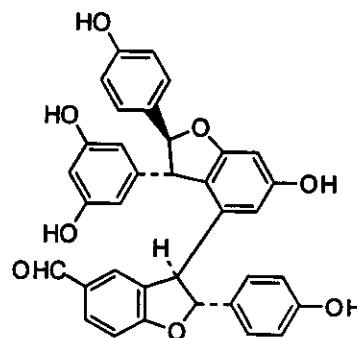
[分子量] 574.586

[基原] *Vitis vinifera*

[比旋光度]: $[\alpha]_D -131.7$ (c, 1.6 in MeOH)

文献

Ito, J. et al., *Tetrahedron*, 1996, 52, 9991-9998, (分離, IR, H-NMR, C13-NMR)

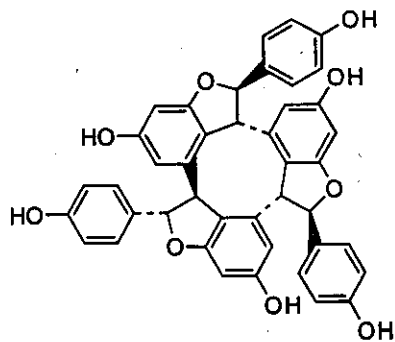


§ α -Viniferin

[CAS No.] 62218-13-7

[化合物分類] 単環芳香族 (Stilbene polymers)
[構造式]

[分子式] $C_{42}H_{30}O_9$
[分子量] 678.694
[基原] *Carex humilis*, *Shorea hemsleyana*, *Vitis vinifera*
[性状] Pale brown powder
[比旋光度]: $[\alpha]_D +51.4$ (c, 1 in EtOH)
UV: [neutral] λ_{max} 225 (sh) (log ϵ 4.68); 281 (sh) (log ϵ 3.92); 286 (log ϵ 4); 293 (sh) (log ϵ 3.93) (溶媒の報告はない) [neutral] λ_{max} 286 (ϵ 10000) (EtOH) (Berdy)



-----文献-----

Langcake, P. et al., *Experientia*, 1977, 33, 151, (分離)
Pryce, R.J. et al., *Phytochemistry*, 1977, 16, 1452, (分離)
Lee, S.-H. et al., *Planta Med.*, 1998, 64, 204-207, (分離, H-NMR, C13-NMR, 活性)
Ito, T. et al., *Chem. Pharm. Bull.*, 2000, 48, 1001-1005, (6'-glucoside)

§ ϵ -Viniferin; (7E,7'R,8'R)-form

[化合物分類] フラボノイド (2-Arylbenzofuran flavonoids), 単環芳香族 (Stilbene polymers), 単環芳香族 (Stilbenes)

[構造式]

[分子式] $C_{28}H_{22}O_6$

[分子量] 454.478

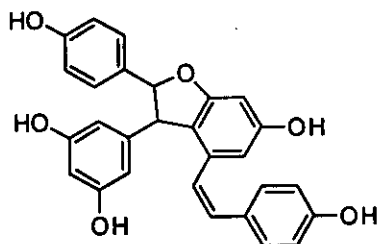
[基原] 次の植物から分離: *Vitis vinifera* と *Gnetum* spp. の葉,

Sophora spp., *Vatica affinis*

[性状] 無定型の塊

[融点] Mp 155-156 °C

UV: [neutral] λ_{max} 224 (ϵ 54200); 286 (sh) (ϵ 15100); 310 (ϵ 22800); 324 (ϵ 24300); 345 (sh) (ϵ 13000) (EtOH)



-----文献-----

Oshima, Y. et al., *Tetrahedron*, 1995, 51, 11979-11986, (ϵ -Viniferin diol)
Li, W.-W. et al., *Phytochemistry*, 1996, 42, 1163, ((+)-Viniferin, Betulifol B)
Ito, J. et al., *Tetrahedron*, 1999, 55, 2529-2544, (Viniferifuran)

§ ϵ -Viniferin; (7E,7'R,8'R)-form, 7',8'-Didehydro

[化学名・別名] Viniferifuran. Amurensin H

[CAS No.] 223591-26-2

[化合物分類] 単環芳香族 (Stilbenes), 単環芳香族 (Stilbene polymers), フラボノイド (2-Arylbenzofuran flavonoids)

[構造式]

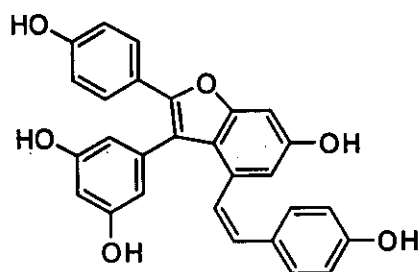
[分子式] $C_{28}H_{20}O_6$

[分子量] 452.462

[基原] ブドウ *Vitis vinifera* 'Kyohou', *Vitis amurensis*

[性状] 無定型の青白い黄色の粉末

UV: [neutral] λ_{max} 209 (log ϵ 4.79); 227 (sh) (log ϵ 4.62); 258 (log ϵ 4.33); 289 (sh) (log ϵ 4.44); 308 (log ϵ 4.53); 317 (log ϵ 4.54); 337 (log ϵ 4.53); 350 (sh) (log ϵ 4.52) (MeOH)



-----文献-----

Huang, K.S. et al., *Chin. Chem. Lett.*, 1999, 10, 817-820, (Amurensin H)
Ito, J. et al., *Tetrahedron*, 1999, 55, 2529-2544, (Viniferifuran)

§ ϵ -Viniferin; (7E,7'S,8'S)-form

[化学名・別名] (+)- ϵ -Viniferin

[CAS No.] 129170-22-5

[化合物分類] 単環芳香族 (Stilbene polymers), 単環芳香族 (Stilbenes), フラボノイド (2-Arylbenzofuran flavonoids)

[構造式]

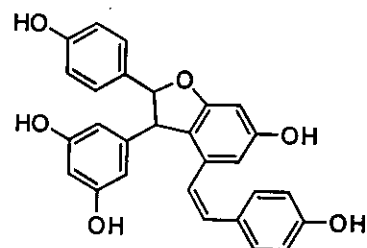
[分子式] $C_{28}H_{22}O_6$

[分子量] 454.478

[基原] *Vitis vinifera*, *Vitis heyneana*

[性状] 茶色の塊

[比旋光度]: $[\alpha]_D +49.1$ (c, 1.9 in MeOH)



文献

Oshima, Y. et al., *Tetrahedron*, 1995, 51, 11979-11986, (ϵ -Viniferin diol)

Li, W.-W. et al., *Phytochemistry*, 1996, 42, 1163, ((+)-Viniferin, Betulifol B)

§ ϵ -Viniferin; (7Z,7'R,8'R)-form

[化学名・別名] *cis*- ϵ -Viniferin

[CAS No.] 62250-12-8

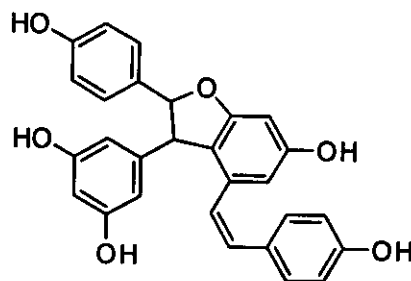
[化合物分類] 単環芳香族 (Stilbene polymers),
フラボノイド (2-Arylbenzofuran flavonoids), 単環芳香族 (Stilbenes)

[構造式]

[分子式] $C_{28}H_{22}O_6$

[分子量] 454.478

[基原] *Vitis vinifera*



文献

Sotheeswaran, S. et al., *Phytochemistry*, 1993, 32, 1083, (レビュー, 成書)

Iinuma, M. et al., *Phytochemistry*, 1994, 37, 1157, (分離)

Oshima, Y. et al., *Tetrahedron*, 1995, 51, 11979-11986, (ϵ -Viniferin diol)

Li, W.-W. et al., *Phytochemistry*, 1996, 42, 1163, ((+)-Viniferin, Betulifol B)

§ Viniferol A

[化合物分類] 単環芳香族 (Stilbene polymers)

[構造式]

[分子式] $C_{56}H_{42}O_{12}$

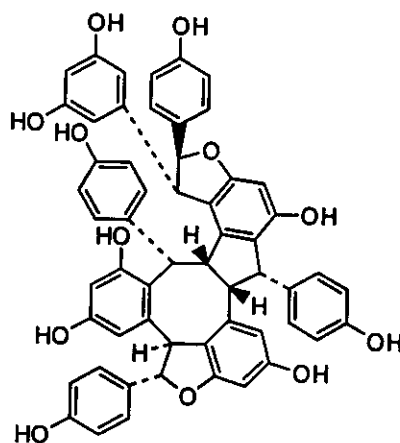
[分子量] 906.941

[基原] *Vitis vinifera* 'Kyohou'

[性状] 無定型の塊

[比旋光度]: $[\alpha]_D +136.6$ (c, 0.6 in MeOH)

UV: [neutral] λ_{max} 227 (sh) (log ϵ 4.8); 284 (log ϵ 3.99) (MeOH)



文献

Yan, K.-X. et al., *Tetrahedron*, 2001, 57, 2711-2715

§ Vitilagin

[CAS No.] 85200-63-1

[化合物分類] タンニン化合物

(Simple gallate ester tannins)

[構造式]

[分子式] $C_{34}H_{26}O_{23}$

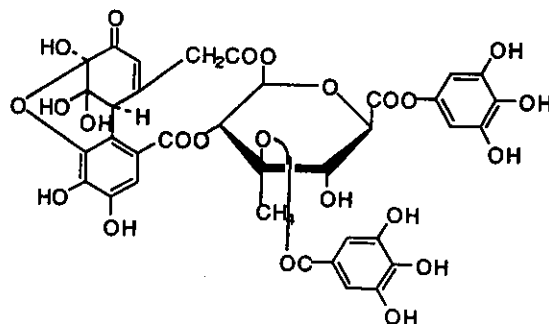
[分子量] 802.566

[一般的性質] Tautomeric with the alternate
(dibenzofuranoid) ketal struct.

[基原] *Vitis vinifera* の葉

[融点] Mp 220-228 °Cで分解

[比旋光度]: $[\alpha]_D^{20} +122$ (c, 0.33 in MeOH)



文献

Karl, C. et al., Z. Naturforsch., C, 1983, 38, 13, (分離)

§ Vitisin A; 7'''',8''''-Didehydro

[化学名・別名] Vitisifuran A

[化合物分類] フラボノイド (2-Arylbenzofuran flavonoids),
単環芳香族 (Stilbene polymers)

[構造式]

[分子式] $C_{36}H_{40}O_{12}$

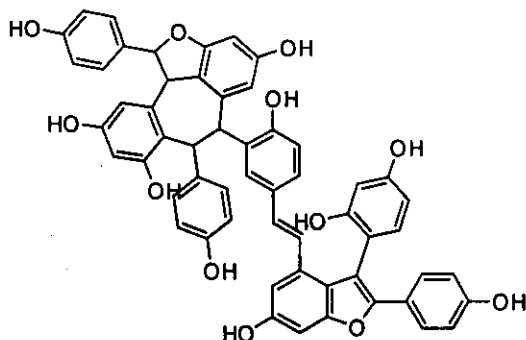
[分子量] 904.925

[基原] *Vitis vinifera* 'Kyohou'

[性状] 無定型の粉末

[比旋光度]: $[\alpha]_D +236.1$ (c, 0.44 in MeOH)

UV: [neutral] λ_{max} 208 (log ϵ 5.07); 232 (sh) (log ϵ 4.82); 296 (log ϵ 4.41); 313 (log ϵ 4.39); 322 (log ϵ 4.39); 340 (sh) (log ϵ 4.45); 356 (log ϵ 4.5) (MeOH)



-----文献-----

Oshima, Y. et al., J.O.C., 1993, 58, 850

Ito, J. et al., Tetrahedron, 1998, 54, 6651-6660, (H-NMR, C13-NMR, 絶対構造)

Ito, J. et al., Tetrahedron, 1999, 55, 2529-2544, (Vitisifuran A)

§ Vitisin B; 2''',3''''-Didehydro

[化学名・別名] Vitisifuran B

[CAS No.] 223558-40-5

[化合物分類] 単環芳香族 (Stilbene polymers),
フラボノイド (2-Arylbenzofuran flavonoids)

[構造式]

[分子式] $C_{36}H_{40}O_{12}$

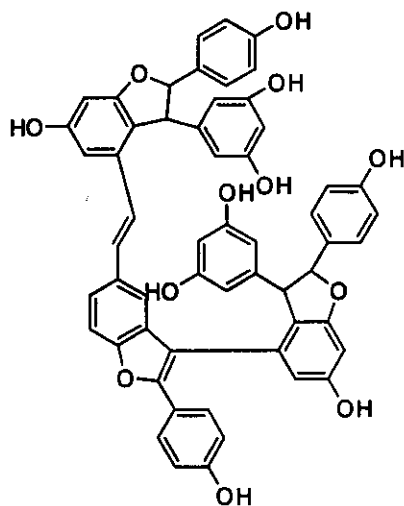
[分子量] 904.925

[基原] *Vitis vinifera* 'Kyohou'

[性状] 無定型の粉末

[比旋光度]: $[\alpha]_D -133.7$ (c, 0.12 in MeOH)

UV: [neutral] λ_{max} 204 (log ϵ 4.99); 228 (sh) (log ϵ 4.75); 287 (log ϵ 4.29); 297 (log ϵ 4.28); 324 (log ϵ 4.31); 357 (sh) (log ϵ 4.25) (MeOH)



-----文献-----

Korhammer, S. et al., Phytochemistry, 1995, 38, 1501-1504, (r-Viniferin)

Oshima, Y. et al., Tetrahedron, 1995, 51, 11979-11986, (分離, UV, IR, H-NMR, C13-NMR, Mass)

Ito, J. et al., Tetrahedron, 1996, 52, 9991-9998; 1999, 55, 2529, (Vitisin C, Vitisifuran B)

§ Vitisin B; 3-Epimer

[化学名・別名] Vitisin C

[CAS No.] 180580-73-8

[化合物分類] 単環芳香族 (Stilbene polymers)

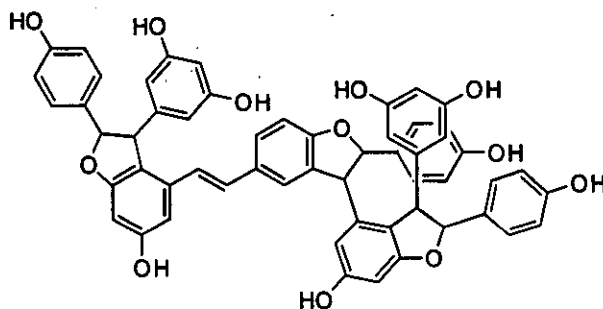
[構造式]

[分子式] $C_{36}H_{42}O_{12}$

[分子量] 906.941

[基原] 次の植物から分離: ブドウの茎 *Vitis vinifera*

[比旋光度]: $[\alpha]_D +239.9$ (c, 0.5 in MeOH)



-----文献-----

Korhammer, S. et al., Phytochemistry, 1995, 38, 1501-1504, (r-Viniferin)

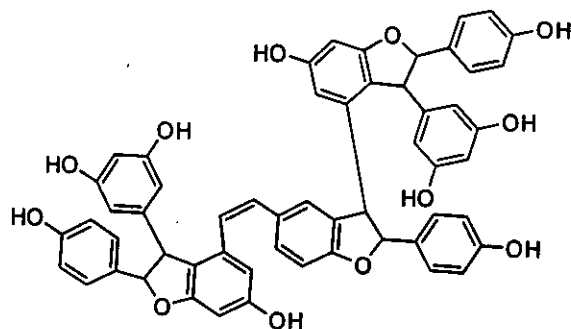
Oshima, Y. et al., Tetrahedron, 1995, 51, 11979-11986, (分離, UV, IR, H-NMR, C13-NMR, Mass)

Ito, J. et al., Tetrahedron, 1996, 52, 9991-9998; 1999, 55, 2529, (Vitisin C, Vitisifuran B)

§ Vitisin B; 2,3-Diepimer

[化学名・別名] r-Viniferin

[CAS No.] 165883-77-2
 [化合物分類] 単環芳香族 (Stilbene polymers)
 [構造式]



[分子式] $C_{56}H_{42}O_{12}$
 [分子量] 906.941
 [一般的性質] Oligostilbene
 [基原] 次の植物の根から分離: *Vitis vinifera*

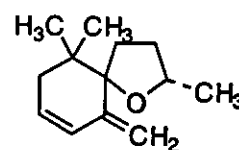
-----文献-----

Korhammer, S. et al., *Phytochemistry*, 1995, 38, 1501-1504, (*r*-Viniferin)

§ Vitispirane

[化学名・別名] 6,9-Epoxy-3,5(13)-megastigmadiene
 [CAS No.] 65416-59-3
 [化合物分類] テルペノイド (Megastigmane norterpeneoids)
 [構造式]

[分子式] $C_{15}H_{20}O$
 [分子量] 192.3
 [一般的性質] Natural vitispirane is a mixture of the (6*R*) and (6*S*) epimers
 [基原] *Vitis vinifera* の果汁
 [性状] オイル
 [沸点] $Bp_{0.2}$ 57-59 °C



-----文献-----

Simpson, R.F. et al., *Chem. Ind. (London)*, 1977, 663, (分離)
 Schulte-Elte, K.H. et al., *Helv. Chim. Acta*, 1978, 61, 1125, (合成法, 構造決定)

*****ブドウサケカス (Wine less) *****

§ § ブドウ科ブドウ (*Vitis vinifera* L.) の果実 (発酵)。
 「ブドウ」参照

*****フトモモ (Rose apple) *****

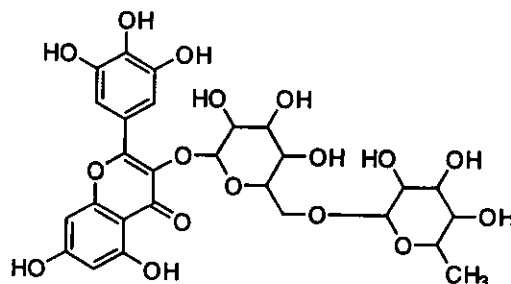
§ § フトモモ科フトモモ (*Syzygium jambos* Alston (*Eugenia jambos* Linne; *Jambosa vulgaris* de Candolle)) の樹皮, 果実, 茎葉。

本調査研究では、成分に関する文献はなかった。

§ § フトモモ科ユーカリフトモモ (*Syzygium cumini* Skeels) の樹皮, 果実, 茎葉。

§ 3,3',4',5,5',7-Hexahydroxyflavone; 3-O-[α -L-Rhamnopyranosyl-(1 → 6)- β -D-galactopyranoside]

[化学名・別名] Myricetin 3-robinobioside
 [CAS No.] 145544-43-0
 [化合物分類] フラボノイド (Flavonols; 6 × O-置換基)
 [構造式]



[分子式] $C_{27}H_{30}O_{17}$
 [分子量] 626.524
 [基原] *Syzygium cumini* と *Nymphaea x marliacea* の根

-----文献-----

Vaishnava, M.M. et al., *Fitoterapia*, 1992, 63, 259-260, (3-robinobioside)
 Fossen, T. et al., *Phytochemistry*, 1998, 49, 1997-2000, (3-robinobioside)

*****ブナ (Beech) *****

§ § ブナ科ブナ (*Fagus crenata* Blume) の樹皮または材。
本調査研究では、成分に関する文献はなかった。

*****ブナハリタケ (Bunaharitake) *****

§ § ハリタケ科ブナハリタケ (*Creolophus spathulatus* Imazeki) の子実体または培養菌糸体。
本調査研究では、成分に関する文献はなかった。

*****ブラックキャラウエイ (Black caraway, Nigella) *****

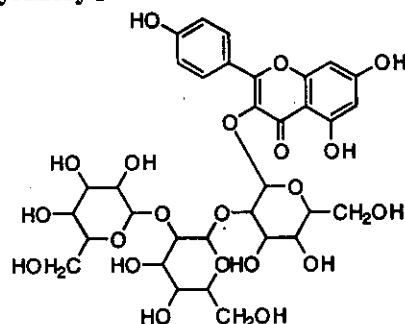
§ § キンボウゲ科スモールフェネル (*Nigella sativa* L.) の種子。

§ Astragalin; 2''-O- $[\beta$ -D-Glucopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl]

[CAS No.] 197250-98-9

[化合物分類] フラボノイド (Flavonols; 4 \times O-置換基)

[構造式]



[分子式] $C_{33}H_{40}O_{21}$

[分子量] 772.666

[基原] *Nigella sativa* の種子

UV: [neutral] λ_{max} 265; 300 (sh); 348 (MeOH)

-----文献-----

Isobe, T. et al., *Phytochemistry*, 1980, 19, 1877, (2''-gallate)

The Flavonoids: Advances in Research since 1980, (Ed. Harborne, J.B.), Chapman and Hall, London, 1988

§ Butyl propyl disulfide

[化学名・別名] 4,5-Dithianonane

[CAS No.] 72437-64-0

[化合物分類] 脂肪族化合物 (Disulfides, trisulfides)

[構造式] $H_3CCH_2CH_2-S-S-(CH_2)_3CH_3$

[分子式] $C_7H_{16}S_2$

[分子量] 164.335

[基原] *Allium cepa*, *Azadirachta indica* と *Nigella sativa* の種子

-----文献-----

Gupta, D. et al., *Can. J. Chem.*, 1980, 58, 1350-1354; 1981, 59, 543-548, (合成法, Mass)

Balandrin, M.F. et al., *J. Agric. Food Chem.*, 1988, 36, 1048-1054, (分離)

§ 6,7-Dihydroxy-1-methylisoquinoline; Di-Me ether

[化学名・別名] 6,7-Dimethoxy-1-methylisoquinoline (CAS 名). Isosalsolidine. Nigellimine

[CAS No.] 4594-02-9

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

[構造式]

[分子式] $C_{12}H_{13}NO_2$

[分子量] 203.24

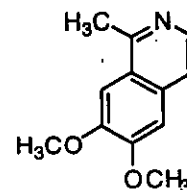
[基原] Alkaloid detected in *Pachycereus weberi* by tandem mass spectrom. (サボテン科).

次の植物の種子の微量含量成分: *Nigella sativa* (キンボウゲ科)

[性状] 結晶 (Et₂O/EtOAc)

[融点] Mp 118-119 °C

[販売元] Rare Chemicals Library: S95669-4



-----文献-----

Roush, R.A. et al., *Anal. Chem.*, 1985, 57, 109, (生育, Isosalsolidine)

Atta-ur-Rahman et al., *Heterocycles*, 1985, 23, 953, (Nigellimine oxide)

Atta-ur-Rahman et al., *J. Nat. Prod.*, 1992, 55, 676, (分離, Isosalsolidine)