

Traditionally, there are in major use chemical names having differences from the contemporary organic chemical nomenclature. We are giving available synonyms where the version following the best accordance with the nomenclature rules is used in bold, other trivial and CA names are normal.

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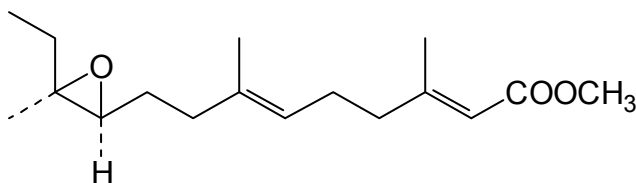
JUVENILE HORMONES

Juvenile hormones scientific hotline: wimmer@uochb.cas.cz

S3312-001 Methyl (±)-(2E,6E,10R*,11S*)-10,11-Epoxy-3,7,11-trimethyl-2,6-tridecadi-enoate

Methyl (±)-10,11-*cis*-Epoxy-3,7,11-trimethyl-2E,6E-tridecadienoate, Methyl (±)-10,11-*cis*-Epoxy-3,7,11-trimethyl-2-*trans*,6-*trans*-tridecadienoate, [2R-[2α(2E,6E),3α]]-9-(3-ethyl-3-methyloxiranyl)-3,7-dimethyl-2,6-nonadienoic acid methyl ester

(±)-JHII, (±)-**Juvenile Hormone II**, purity ca. 78% (GC, NMR), C₁₇H₂₈O₃, FW 280.4, bp (bath) 85°C (0,035mm), synthetic, [34218-61-6], MOISTURE SENSITIVE, STORE AT -18°C (Packaged under argon in glass vials)



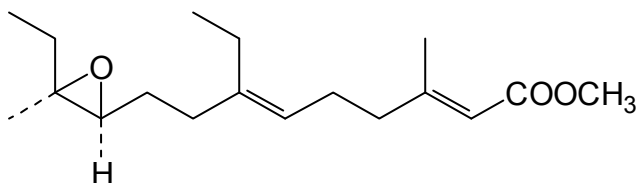
Literature: Anderson R.J., et al.: J. Amer. Chem. Soc. 94, 5379 (1972) prepn of; Röller Het al.: Angew. Chem., Int. Ed. Engl. 6, 179 (1967); Meyer A. Set al.: Proc. Nat. Acad. Sci. U.S.A. 60, 853 (1968); Trost B.M.: Accounts Chem. Res. 3, 120 (1970)

isolation, identification, spectra, biological properties.

S3313-001 Methyl (±)-(2E,6E,10R*,11S*)-10,11-Epoxy-7-ethyl-3,11-dimethyl-2,6-tri-decadien-oate

Methyl (±)-10,11-*cis*-Epoxy-7-ethyl-3,11-dimethyl-2-*trans*,6-*trans*-tridecadienoate, Methyl (±)-10,11-*cis*-Epoxy-7-ethyl-3,11-dimethyl-2E,6E-tridecadienoate, [2R-[2α(2E,6E),3α]]-7-ethyl-9-(3-ethyl-3-methyloxiranyl)-3-methyl-2,6-nonadienoic acid methyl ester

(±)-JHI, (±)-**Juvenile Hormone I**, purity ca. 78% (GC, NMR), C₁₈H₃₀O₃, FW 294.4, bp n/a, synthetic, [13804-51-8], MOISTURE SENSITIVE, STORE AT -18°C (Packaged under argon in glass vials)

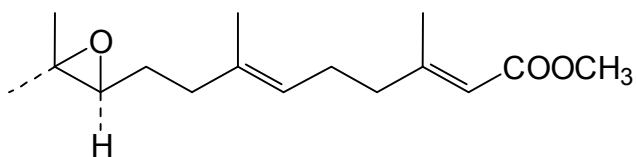


Literature: Henrick C.A., Schaub F., Siddall J.B.: J. Amer. Chem. Soc. 94, 5374 (1972) prepn of; Röller H., Dahm K.H., Sweeley C.C., Trost B.M.: Angew. Chem., Int. Ed. Engl. 6, 179 (1967); Meyer A.S., Schneiderman H.A., Hanzmann E., Ko

J.H.: Proc. Nat. Acad. Sci. U.S. 60, 853 (1968); Trost B.M.: Accounts Chem. Res. 3, 120 (1970) isolation, identification, spectra, biological properties

S3314-001 Methyl (±)-(2E,6E,10R*)-10,11-Epoxy-3,7,11-trimethyl-2,6-dodecadien-oate

Methyl (±)-10,11-*cis*-Epoxy-3,7,11-trimethyl-2-*trans*,6-*trans*-dodecadienoate, Methyl (±)-10,11-*cis*-Epoxy-3,7,11-trimethyl-2E,6E-dodecadienoate, [R-(E,E)]-9-(3,3-dimethyl-2-oxiranyl)-3,7-dimethyl-2,6-nonadienic acid methyl ester, methyl [2R-[2α(2E,6E),3α]]-9-(3,3-dimethyl-2-oxiranyl)-3,7-dimethyl-2,6-nonadienoate, (±)-JH III, (±)-**Juvenile Hormone III**, purity ca. 75% (GC, NMR), C₁₆H₂₆O₃, FW 266.4, bp n/a, synthetic, Sigma J-2000, [24198-95-6], MOISTURE AND HEAT SENSITIVE, STORE AT -18°C (Packaged under argon in glass vials).



Literature: sepn. Koenig WA, Gehrcke G, J. High Resolut. Chromatogr. 16, 175 (1993), Kurata K., J. Chromatogr. B., Biomed Appl., 668, 322 (1995); synth. Latli B., Prestwich GD, J. Labelled Compd. Radiopharm., 29, 1167

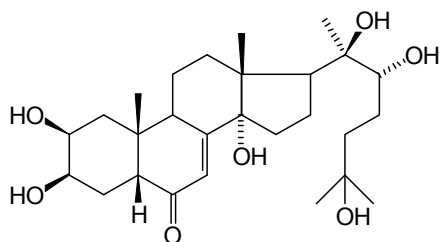
(1991), Crispino GA, Sharpless KB, Synthesis 1993, 777; RIA: Goodman WG, Orth A, Toong YC, Ebersohl R, Hiruma K, Granger NA, Arch. Insect Biochem. Physiol. 30, 295 (1995).

ECDYSONES

Ecdysones scientific hotline: harmatha@uochb.cas.cz

S3314-001 20-Hydroxyecdysone, (20R,22R)-2 β ,3 β ,14,20,22,25-Hexahydroxy-5 β -cholest-7-en-6-one

β -Ecdysone, Ecdysterone, Crustecdysterol, (2 β ,3 β ,5 β ,22R)-2,3,14,20,22,25-Hexahydroxy-cholest-7-en-6-one. Purity ca. 99%, natural, suitable for bioassays and immunoassays building block preparation, C₂₇H₄₄O₇, FW 480.6, mp 241-243°C, [Lafont, Wilson 1992, p. 205] [Sigma H5142] [5289-74-7]



Function: Insect molting hormone. *Occurrence:* Invertebrates, arthropod phylum, insects crustaceans, spiders, ticks, plants, fungi. *Application:* medicine - silkworm production regulation, helminthal parasites identification, cosmetics and dermatology (effect on human epidermal kerationcytes), suspect anabolic.

Literature: Ecdysone. From Chemistry to Mode of Action. J. Koolman (Ed.), G.Thieme Verlag Stuttgart - New York, 1989; Eur J. Dermatol 4, 558 (1994); Patent WO 94/04132

(03.03.1994).

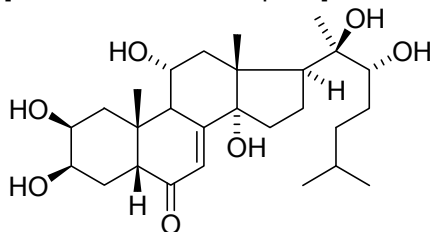
S3314-095 20-Hydroxyecdysone 95

purity ca. 95%, natural from *Leuzea carthamoides*, suitable for chemical transformations and for use in cosmetic research, where minor ecdysteroid admixtures of polypodine B, ajugasterone C, inokosterone have no negative effect (no drug or cosmetic registration issued).

Structure as 20-Hydroxyecdysone; no mp given; quantitative HPLC analysis issued with each batch.

S3330-001 Ajugasterone C, (20R,22R)-2 β ,3 β ,11,14,20,22-Hexahydroxy-5 β -cholest-7-en-6-one

(2 β ,3 β ,5 β ,22R)-2,3,11,14,20,22-Hexahydroxy-cholest-7-en-6-one. Purity ca. 97+%, natural, suitable for bioassays and immunoassays building block preparation, C₂₇H₄₄O₇, FW 480.6, mp not reported, [Lafont, Wilson 1992, p. 18]



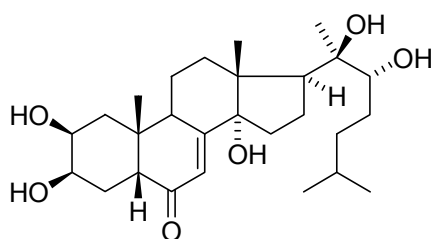
Function: Ecdysone agonist. *Activity:* Sarcophaga bioassay. *Occurrence:* Animals (Anthozoa), plants. *Application:* not reported, suspect anabolic.

Literature: Imai S., Murata E., Fujioka S, J.Chem. Soc. Chem. Commun., 546-547 (1969), Isolation; Bielby C.R. et al. J.Chromatogr. **351**, 57-64 (1986), GC; Piš J. et al., Phytochemistry **37**, 707-711 (1994), HPLC NMR; Harmatha

J. and Dinan L., Arch. Insect Biochem. Physiol. **35**, 219-225 (1997).

S3331-001 Ponasterone A, (20R,22R)-2 β ,3 β ,14,20,22-Pentahydroxy-5 β -cholest-7-en-6-one

(2 β ,3 β ,5 β ,22R)-2,3,14,20,22-Pentahydroxy-cholest-7-en-6-one. Purity 95 %+, natural. C₂₇H₄₄O₆, FW 464, M.P. 259-260°C (decomp.), [α]_D²⁰ not reported, IR (KBr) ν max (cm⁻¹) 3420 (OH), 1643 (CO), UV (MeOH) λ max (log ϵ) 244 (4.093), 326 (2.11). Ecdybase. *Occurrence:* in plants *Taxus cuspidata*, various Ferns, *Tapinella panuoides*, in animals: *Gecarcinus lateralis*, *Callinectes sapidus*, *Carcinus maenas*.



Literature: Nakaniski K. et al. J. Chem. Soc., Chem. Commun., (1966) 915-917, McCarthy, J.F. et al. Steroids **34**, 799-806 (1979).

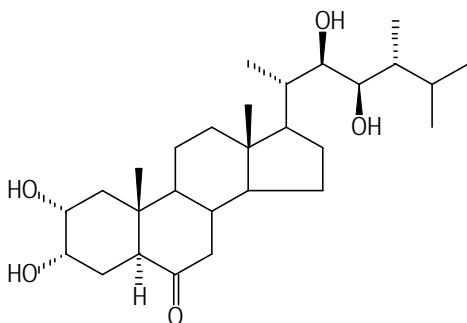
BRASSINOSTEROIDS

S3315-001 EPICASTASTERONE

(22R,23R)-2 α ,3 α ,22,23-Tetrahydroxy-5 α -ergostan-6-one

24R-Castasterone, (2 α ,3 α ,5 α ,22R,23R,24R)- 2,3,22,23-Tetrahydroxy-ergostan-6-one

purity >95%, synthetic, C₂₈H₄₈O₅, FW 464.7, mp 247-249°C (mp lit 241-242°C, Thompson M.J., et al. J.Org.Chem. 44, 5002 (1979)).



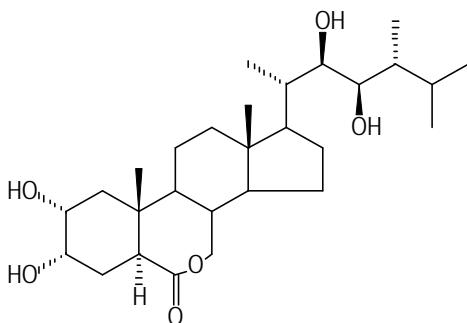
Literature: Synthesis: Thompson M.J., et al.: J.Org.Chem. 44, 5002 (1979); Anastasia M. et al.: J.Chem.Soc. Perkin Trans I, 1983, 379; Khripach V. et al.: Brassinosteroids: Chemistry, Bioactivity, and Applications, ACS Symp. Series, Washington, 474, 43 (1991). Identification (*Hydrodictyon Reticulatum*) Yokota T., et al.: Phytochemistry 26, 503 (1987). Biological Activity: Thompson M.J., et al.: Steroids 38, 567 (1981), and 39, 89 (1982), Takatsuto S., et al.: Phytochemistry 22, 1393 (1983) and 22, 2437 (1983)

S3316-001 EPIBRASSINOLIDE

(22R,23R)-2 α ,3 α ,22,23-Tetrahydroxy-7-oxa-B-homo-5 α -ergostan-6-one

24R-Brassinolide, Epibrassinolide R,

(2 α ,3 α ,5 α ,22R,23R)-2,3,22,23-Tetrahydroxy-B-homo-7-oxa-ergostan-6-one, purity >95%, synthetic, C₂₈H₄₈O₆, FW 480.7, mp 256-258°C (mp lit 256-258°C, Thompson M.J., et al. J.Org.Chem. 44, 5002 (1979)); [Sigma E1641] [78821-43-9].



Literature: Synthesis: Thompson M.J., et al.: J.Org.Chem. 44, 5002 (1979); Anastasia M. et al.: J.Chem.Soc. Perkin Trans I, 1983, 379; Takatsuto S., et al. Chem. Pharm. Bull. 32, 2001 (1984) ; Khripach V. et al.: Brassinosteroids: Chemistry, Bioactivity, and Applications, ACS Symp. Series, Washington, 474, 43 (1991).

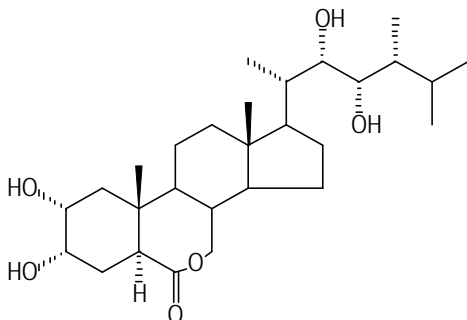
Identification (*Vicia Faba L.*) Ikekawa N., et. al. Chem. Pharm. Bull. 36, 405 (1988). Biological Activity: Thompson M.J., et al.: Steroids 38, 567 (1981), and 39, 89 (1982), Takatsuto S., et al.: Phytochemistry 22, 1393 (1983) and 22, 2437 (1983). Practical Application: Ikekawa N. et al.: Brassinosteroids: Chemistry, Bioactivity, and Applications, ACS Symp. Series, Washington, 474, 280 (1991).

S3317-001 22S,23S-EPIBRASSINOLIDE

(22S,23S)-2 α ,3 α ,22,23-Tetrahydroxy-7-oxa-B-homo-5 α -ergostan-6-one

22S,23S,24R-Brassinolide, Epibrassinolide S,

(2 α ,3 α ,5 α ,22S,23S)-2,3,22,23-Tetrahydroxy-B-ho-mo-7-oxaergostan-6-one, purity >95%, synthetic, C₂₈H₄₈O₆, FW 480.7, mp 195-197°C (mp lit 193-195°C); Anastasia M. et al.: J.Chem.Soc. Perkin Trans I, 1983, 379), [78821-42-8].



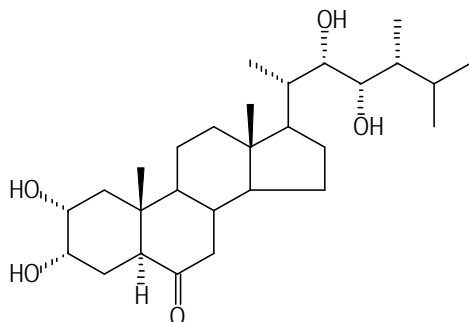
Literature: Synthesis: Thompson M.J., et al.: J.Org.Chem. 44, 5002 (1979); Anastasia M. et al.: J.Chem.Soc. Perkin Trans I, 1983, 379; Takatsuto S., et al. Chem. Pharm. Bull. 32, 2001 (1984) ; Khripach V. et al.: Brassinosteroids: Chemistry, Bioactivity, and Applications, ACS Symp. Series, Washington, 474, 43 (1991). Biological Activity:

Thompson M.J., et al.: Steroids 38, 567 (1981), and 39, 89 (1982), Takatsuto S., et al.: Phytochemistry 22, 1393 (1983) and 22, 2437 (1983).

S3318-001 22S,23S-EPICASTASTERONE

(22S,23S)-2 α ,3 α ,22,23-Tetrahydroxy-5 α -ergostan-6-one

22S,23S,24R-Castasterone, (2 α ,3 α ,5 α ,22S,23S,24R)-2,3,22,23-Tetrahydroxy-ergostan-6-one, purity >95%, synthetic, C₂₈H₄₈O₅ FW 464.7, mp 183-185°C (mp lit 184-185°C); Anastasia M. et al.: J.Chem.Soc. Perkin Trans I, 1983, 379).



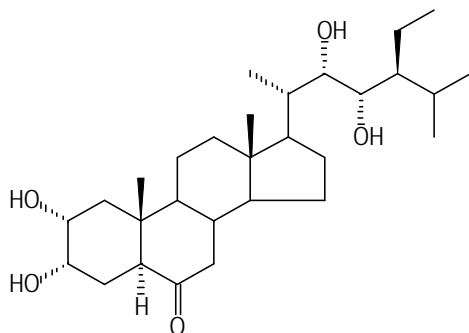
Literature: Synthesis: Thompson M.J., et al.: J.Org.Chem. 44, 5002 (1979); Anastasia M. et al.: J.Chem.Soc. Perkin Trans I, 1983, 379; Takatsuto S., et al. Chem. Pharm. Bull. 32, 2001 (1984); Khripach V. et al.: Brassinosteroids: Chemistry, Bioactivity, and Applications, ACS Symp. Series, Washington, 474, 43 (1991). Biological Activity: Thompson M.J., et al.: Steroids

38, 567 (1981), and 39, 89 (1982), Takatsuto S., et al.: Phytochemistry 22, 1393 (1983) and 22, 2437 (1983).

S3319-001 22S,23S-HOMOCASTASTERONE

(22S,23S)-2 α ,3 α ,22,23-Tetrahydroxy-5 α -stigmastan-6-one

22S,23S,24S-Ethylbrassinone, (2 α ,3 α ,5 α)-2,3,22,23-Tetrahydroxy-stigmastan-6-one, purity >95%, synthetic, C₂₉H₅₀O₅ FW 478.7, mp 208-210°C (mp lit 206-208°C; Mori K., et al.: Tetrahedron 38, 2099 (1982)).



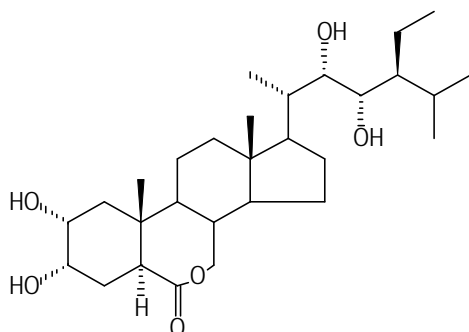
Literature: Synthesis: Takatsuto S., et al. Chem. Pharm. Bull. 30, 4181 (1982); Sakakibara et al.: Agric. Biol. Chem. 46, 2769 (1982), Takatsuto S., et al.: J.Chem.Soc. Perkin. Trans. I, 1984, 439. Khripach V. et al.: Brassinosteroids: Chemistry, Bioactivity, and Applications, ACS Symp. Series, Washington, 474, 43 (1991). Biological Activity: Thompson M.J., et al.: Steroids 38, 567 (1981), and 39, 89 (1982), Takatsuto S., et al.: Phytochemistry 22, 1393

(1983) and 22, 2437 (1983).

S3320-001 22S,23S-HOMOBRASSINOLIDE

(22S,23S)-2 α ,3 α ,22,23-Tetrahydroxy-7-oxa-B-homo-5 α -stigmastan-6-one

22S,23S,28-Methylbrassinolide, (2 α ,3 α ,5 α)-2,3,22,23-Tetrahydroxy-B-homo-7-oxastigmastan-6-one, purity >95%, synthetic, C₂₉H₅₀O₆, FW 494.7, mp 193-194°C (mp lit 193-194°C); Mori K., et al.: Tetrahedron 38, 2099 (1982). [Sigma H1267] [110369-52-3].



Literature: Synthesis: Takatsuto S., et al. Chem. Pharm. Bull. 30, 4181 (1982); Sakakibara et al.: Agric. Biol. Chem. 46, 2769 (1982), Takatsuto S., et al.: J.Chem.Soc. Perkin. Trans. I, 1984, 439. Khripach V. et al.: Brassinosteroids: Chemistry, Bioactivity, and Applications, ACS Symp. Series, Washington, 474, 43 (1991). Biological Activity: Thompson M.J., et al.: Steroids 38, 567

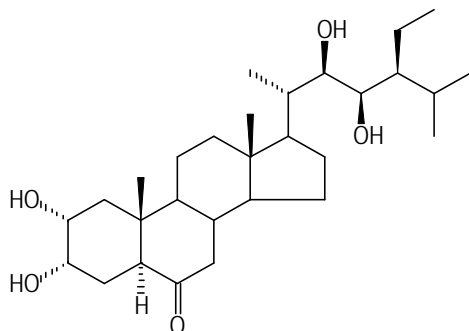
(1981), and 39, 89 (1982), Takatsuto S., et al.: Phytochemistry 22, 1393 (1983) and 22, 2437 (1983). Thompson M.J., et al.: J.Org.Chem. 44, 5002 (1979).

S3323-001 HOMOCASTASTERONE

(22S,23S)-2 α ,3 α ,22,23-Tetrahydroxy-6-oxa-5 α -stigmastan-6-one

24S-Ethylbrassinon, (2 α ,3 α ,5 α)-2,3,22,23-Tetrahydroxy-6-oxastigmastan-6-one, purity >95%, synthetic, C₂₉H₅₀O₅, FW 478.7, mp 253-256°C (mp lit 253-256°C Takatsuto S., et al. Chem. Pharm. Bull. 30, 4181 (1982), 243-244°C Thompson M.J., et al.: Steroids 39, 89 (1982)).

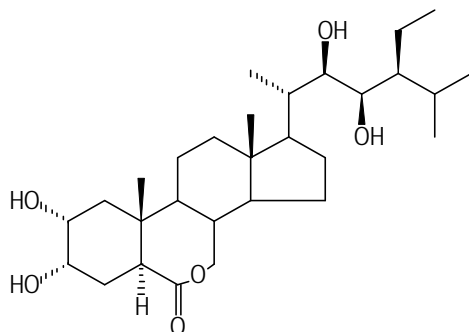
Literature: Khripach V. et al.: Brassinosteroids: Chemistry, Bioactivity, and Applications, ACS Symp. Series, Washington, 474, 43 (1991). Abe H. et al.: *Experiencia* 39, 351 (1983). Ikekawa N. et al.: *J. Chromatogr.* 290, 289 (1984). Takatsuto S., et al. *Chem. Pharm. Bull.* 30, 4181 (1982). Thompson M.J., et al.: *Steroids* 39, 89 (1982). Yokota T., et al.: *Phytochemistry* 26, 503 (1987).



S3324-001 HOMOBRASSINOLIDE

(22R,23R)-2 α ,3 α ,22,23-Tetrahydroxy-7-oxa-B-homo-5 α -stigmastan-6-one

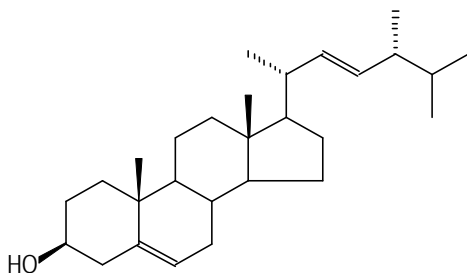
(2 α ,3 α ,5 α)-2,3,22,23-Tetrahydroxy-B-homo-7-oxastigmastan-6-one, purity >95%, synthetic, C₂₉H₅₀O₆, FW 494.7, mp 269-271°C (mp lit 271-272°C Thompson M.J., et al.: *Steroids* 39, 89 (1982)). [74174-44-0].



Literature: Khripach V. et al.: Brassinosteroids: Chemistry, Bioactivity, and Applications, ACS Symp. Series, Washington, 474, 43 (1991). Thompson M.J., et al.: *Steroids* 39, 89 (1982), 100.101 97.46 Sakakibara M. et al.: *Agric. Biol. Chem.* 46, 2769 (1982). Takatsuto S., et al.: *J. Chem. Soc. Perkin I* 1984, 439. Ikekawa N. et al.: *J. Chromatogr.* 290, 289 (1984).

BRASSICASTEROIDS

S3321-001 BRASSICASTEROL, (22E)-Ergosta-5,22-dien-3β-ol



24-Methylcholest-5-en-3β-ol, (3β,22E)-Ergosta-5,22-dien-3-ol, purity >95%, synthetic, C₂₈H₄₆O, FW 398.7, mp 144-146°C (mp lit 145-147°C, Fujimoto Y., et al. Chem. Pharm. Bull. 32, 4372 (1984)). [474-67-9].

Literature: Fujimoto Y., et al. Chem. Pharm. Bull. 32, 4372 (1984), Wright J.L.C. et al.: Can. J. Chem. 56, 1898 (1978), Pruna L. et al.: Pharmazie 36, 579 (1981), Fernholz E. et al.: J. Amer. Chem. Soc. 62, 1775 (1940)

see also for biol. tests.

S3322-001 BRASSICASTEROL ACETATE, (22E)-Ergosta-5,22-dien-3β-ol Acetate

24-Methylcholest-5-en-3β-ol acetate, purity >95%, C₃₀H₅₀O₂, FW 442.7, mp 156-159°C (mp lit 150-152°C, Fujimoto Y., et al. Chem. Pharm. Bull. 32, 4372 (1984)). [2458-53-9].

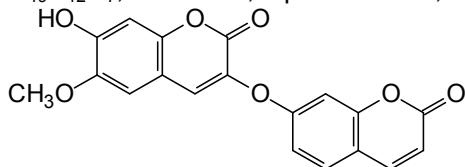
structure as S3321-001 BRASSICASTEROL, but 3-O acetate

Literature: Fujimoto Y., et al. Chem. Pharm. Bull. 32, 4372 (1984), Fernholz E. et al.: J. Amer. Chem. Soc. 62, 1775 (1940).

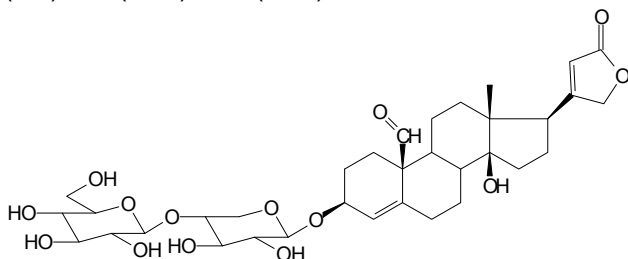
MISCELLANEA

S3325-001 DAPHNORETINE,

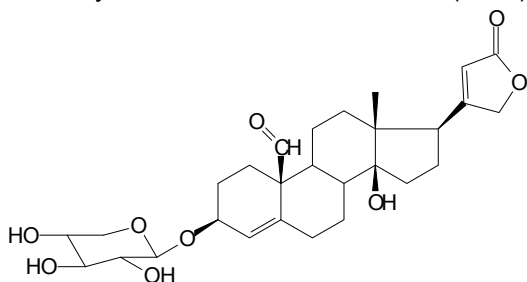
7-Hydroxy-6-methoxy-3[(2-oxo-2H-7-chromenyl)oxy]-2H-2-chromenone, purity >95%, natural, C₁₉H₁₂O₇, FW 352.3, mp 247-249°C, UV λ_{max} MeOH (nm) 207, 227, 265, 324, 342.

**S3326-001 HYRCANOSIDE, 4-O-β-D-glucopyranosyl-β-D-xylopyranosyl-card-4-en-19-al-olide**

purity >95%, natural, C₃₄H₄₈O₁₄, FW 680.74, mp 220-222°C, [α]_D²⁵ -10 (c 1, water). UV λ_{max} MeOH (nm) 211 (4.27), 308 (2.24). Lit.: Williams, M., Cassady J.M., J. Pharm. Sci. **65**, 912 (1976).

**S3327-001 DEGLUCOHYRCANOSIDE, β-D-xylopyranosyl-card-4-en-19-al-olide**

purity >95%, natural, C₂₈H₃₈O₉, FW 518.60, mp 198-200°C, [α]_D²⁵ +17 (c 1, DMF). Lit.: Williams, M., Cassady J.M., J. Pharm. Sci. **65**, 912 (1976).



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S3313-001	(±)-JH I, 78%		450	3600	28800		
S3327-001	(±)-JH III, 78%						
			1mg	10mg	100mg	1g	3g
S3314-095	20-OH-ecdysone 95%	10	30	165	990	2376	3713
S3314-001	20-OH-ecdysone 98%	25	110	605	3630		
S3331-001	Ponasterone A	45	245	1348			
S3328-001	Polypodine B	35	180				
S3330-001	Ajugasterone C	40	195				
			1mg	10mg	100mg	1g	
S3315-001	Epicastasterone	34	220	1320	7920		
S3316-001	Epibrassinolide	31	210	1260	7560		
S3323-001	Homocastasterone	30	200	1200	7200		
S3324-001	Homobrassinolide	30	200	1200	7200		
S3317-001	SS-Epibrassinolide	30	200	1200	7200		
S3318-001	SS-Epicastasterone	30	200	1200	7200		
S3319-001	SS-Homocastasterone	30	200	1200	7200		
S3320-001	SS-Homobrassinolide	30	200	1200	7200		
			1mg	10mg	100mg	1g	
S3321-001	Brassicasterol	47	189	1040	6237		
S3322-001	Brassicasterol 3-Ac	54	215	1183	7095		
			1mg	10mg	100mg	1g	
S3325-001	Daphnoretine	10	34	54	414		
S3326-001	Hyrcanoside	10	62	156	780		
S3327-001	Deglucohyrcanoside	20	145	365	1850		

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