

Product Data Sheet

Product Name: Ganoderol B

Cat. No.: GC49228

Chemical Properties

Cas. No. 104700-96-1

SMILES C[C@]12C3=CC[C@](C(C)([C@H](CC4)O)C)([H])[C@@]4(C)C3=CC[C@@]1([C@]([C@@H](CC/C=C(C)/CO)C)([H])CC2)C

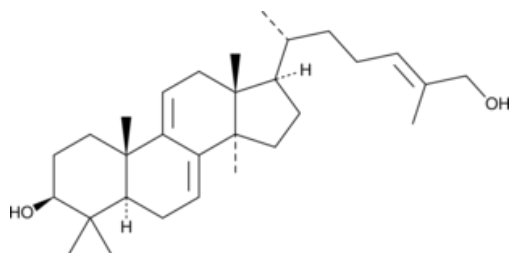
Formula C₃₀H₄₈O₂ M.Wt 440.7

Solubility DMSO : 1.85 mg/mL (4.20 mM; Need ultrasonic) Storage -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Ganoderol B is a triterpenoid that has been found in *G. lucidum* and has diverse biological activities.^{1,2,3,4,5} It inhibits angiotensin-converting enzyme (ACE) and α-glucosidase (IC₅₀s = 220 and 119.8 μM, respectively).^{1,2} Ganoderol B is cytotoxic to HGC-27 gastric, HeLa cervical, and A549 lung cancer cells (IC₅₀s = 16.15, 12.64, and 9.77 μM, respectively).³ It prevents herpes simplex virus 1 (HSV-1) infection in Vero cells (EC₅₀ = 68 μM).⁴ Ganoderol B (0.001 and 0.1 mg/kg) reduces testosterone-induced increases in ventral prostate weight in castrated rats.⁵

1.Morigiwa, A., Kitabatake, K., Fujimoto, Y., et al. Angiotensin converting enzyme-inhibitory triterpenes from *Ganoderma lucidum* Chem. Pharm. Bull. (Tokyo) 34(7)3025-3028(1986) 2.Fatmawati, S.,

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Shimizu, K., and Kondo, R. Ganoderol B: A potent α -glucosidase inhibitor isolated from the fruiting body of *Ganoderma lucidum* *Phytomedicine* 18(12)1053-1055(2011) 3. Su, H.-G., Zhou, Q.-M., Guo, L., et al. Lanostane triterpenoids from *Ganoderma luteomarginatum* and their cytotoxicity against four human cancer cell lines *Phytochemistry* 15689-95(2018) 4. Mothana, R.A.A., Ali, N.A.A., Jansen, R., et al. Antiviral lanostanoid triterpenes from the fungus *Ganoderma pfeifferi* *Fitoterapia* 74(1-2)177-180(2003) 5. Liu, J., Shimizu, K., Konishi, F., et al. The anti-androgen effect of ganoderol B isolated from the fruiting body of *Ganoderma lucidum* *Bioorg. Med. Chem.* 15(14)4966-4972(2007)

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA