

Product Data Sheet

Product Name: Ganodermanontriol

Cat. No.: GC49229

Chemical Properties

Cas. No. 106518-63-2

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

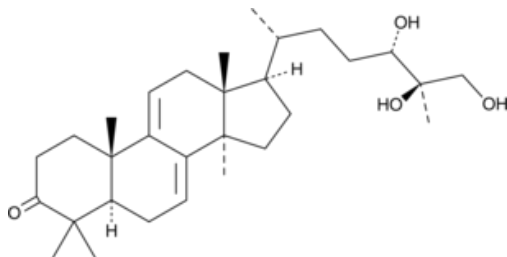
Formula C₃₀H₄₈O₄ M.Wt 472.7

Solubility Chloroform: soluble Storage -20°C

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

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

Structure



Background

Ganodermanontriol is a triterpene that has been found in *G. lucidum* and has diverse biological activities.^{1,2,3,4} It inhibits the activity of HIV-1 protease (IC₅₀ = 70 μM), as well as reduces the activity of 5α-reductase by 32% when used at a concentration of 667 μM.^{1,2} Ganodermanontriol (25 and 50 μM) inhibits proliferation, colony formation, invasion, and migration of MDA-MB-231 human breast cancer cells.³ It reduces hepatocyte necrosis and increases in hepatic TNF-α and IL-6 levels in a mouse model of LPS/D-galactosamine-induced acute liver injury when administered at a dose of 5 mg/kg.⁴

1.Min, B.-S., Nakamura, N., Miyashiro, H., et al. Triterpenes from the spores of *Ganoderma lucidum* and their inhibitory activity against HIV-1 protease *Chem. Pharm. Bull.* 46(10)1607-1612(1998) 2.Liu,

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

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J., Kurashiki, K., Shimizu, K., et al. Structure-activity relationship for inhibition of 5 α -reductase by triterpenoids isolated from *Ganoderma lucidum* Bioorg. Med. Chem. 14(24)8654-8660(2006) 3. Jiang, J., Jedinak, A., and Silva, D. Ganodermanontriol (GDNT) exerts its effect on growth and invasiveness of breast cancer cells through the down-regulation of CDC20 and uPA Biochem. Biophys. Res. Commun. 415(2)325-329(2011) 4. Hu, Z., Du, R., Xiu, L., et al. Protective effect of triterpenes of *Ganoderma lucidum* on lipopolysaccharide-induced inflammatory responses and acute liver injury Cytokine 127154917(2020)

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