
Product Data Sheet

Product Name: Ganodermanondiol

Cat. No.: GC36120

Chemical Properties

Cas. No. 107900-76-5

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

Formula	C ₃₀ H ₄₈ O ₃	M.Wt	456.7
---------	--	------	-------

Solubility	Soluble in DMSO	Storage	Store at -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**

Ganodermanondiol is a melanogenesis inhibitor isolated from the Ganoderma lucidum[1]. Ganodermanondiol exhibits potent cytoprotective effects on tert-butyl hydroperoxide-induced hepatotoxicity[2]. Ganodermanondiol shows significant anti-HIV-1 protease activity with an IC₅₀ of 90 μM[3]. Ganodermanondiol exhibits a strong anticomplement activity against the classical pathway of the complement system with an IC₅₀ of 41.7 μM[4]. IC₅₀: 90 μM (HIV-1 protease)[3]

[1]. Kim JW, et al. Effects of Ganodermanondiol, a New Melanogenesis Inhibitor from the Medicinal Mushroom Ganoderma lucidum. Int J Mol Sci. 2016 Oct 27;17(11). [2]. Li B, et al. Protective effect of ganodermanondiol isolated from the Lingzhi mushroom against tert-butyl hydroperoxide-induced hepatotoxicity through Nrf2-mediated antioxidant enzymes. Food Chem Toxicol. 2013 Mar;53:317-24. [3]. Min BS, et al. Triterpenes from the spores of Ganoderma lucidum and their inhibitory activity against HIV-1 protease. Chem Pharm Bull (Tokyo). 1998 Oct;46(10):1607-12. [4]. Min BS, et al. Anticomplement activity of terpenoids from the spores of Ganoderma lucidum. Planta Med. 2001 Dec;67(9):811-4.

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

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