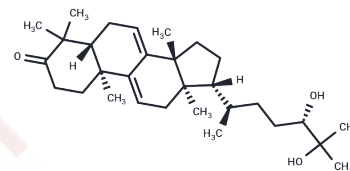


Ganodermanondiol

Chemical Properties

CAS No. :	107900-76-5
Formula:	C ₃₀ H ₄₈ O ₃
Molecular Weight:	456.7
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Ganodermanondiol is a natural melanogenesis inhibitor capable of suppressing tyrosinase, TRP-1, TRP-2, and MITF in B16F10 cells, while influencing MAPK and cAMP pathways. It also exhibits anti-inflammatory and hepatoprotective effects by modulating Nrf2-dependent HO-1 and AMPK.
Targets(IC50)	cAMP, Melanocortin Receptor, MAPK, AMPK, Autophagy, Immunology/Inflammation related, TRP/TRPV Channel, Tyrosinase
In vitro	Ganodermanondiol significantly increased the survival rate of HepG2 cells and inhibited t-BHP-induced ROS generation at non-cytotoxic concentrations (5, 10, 20, 40 μM). [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1896 mL	10.9481 mL	21.8962 mL
5 mM	0.4379 mL	2.1896 mL	4.3792 mL
10 mM	0.219 mL	1.0948 mL	2.1896 mL
50 mM	0.0438 mL	0.219 mL	0.4379 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.
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).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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