

## Ganodermanontriol

### Chemical Properties

CAS No. : 106518-63-2

Formula: C<sub>30</sub>H<sub>48</sub>O<sub>4</sub>

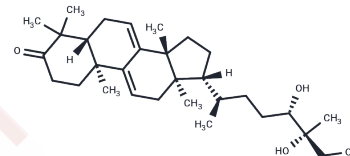
Molecular Weight: 472.7

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



### Biological Description

Description	Ganodermanontriol is a purified triterpene extracted from GL that inhibits proliferation of HCT-116 and HT-29 colon cancer cells without significantly compromising cell viability and suppresses $\beta$ -catenin transcriptional activity and cyclin D1 protein levels in a dose-dependent manner. Ganodermanontriol also reduces Cdk-4 and PCNA while increasing E-cadherin and $\beta$ -catenin accumulation in HT-29 cells, Ganodermanontriol markedly suppresses tumor growth in an HT-29 xenograft mouse model without adverse effects, highlighting its strong potential as a chemotherapeutic candidate for colorectal cancer research.
Targets(IC <sub>50</sub> )	Others, CDK, Wnt/beta-catenin
In vitro	Ganodermanontriol exhibits inhibitory effects on breast cancer cell lines MCF-7 and MDA-MB-231, with IC <sub>50</sub> values of 5.8 $\mu$ M and 9.7 $\mu$ M respectively [2].

### Solubility Information

Solubility	DMSO: 80 mg/mL (169.24 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.1155 mL	10.5775 mL	21.1551 mL
5 mM	0.4231 mL	2.1155 mL	4.231 mL
10 mM	0.2116 mL	1.0578 mL	2.1155 mL
50 mM	0.0423 mL	0.2116 mL	0.4231 mL

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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

Ha do T, et al. In vitro and in vivo hepatoprotective effect of ganodermanontriol against t-BHP-induced oxidative stress. *Ethnopharmacol.* 2013 Dec 12;150(3):875-85.

Kennedy EM, et al. Semisynthesis and biological evaluation of ganodermanontriol and its stereoisomeric triols. *J Nat Prod.* 2011 Nov 28;74(11):2332-7.

Jedinak A, Thyagarajan-Sahu A, Jiang J, Sliva D. Ganodermanontriol, a lanostanoid triterpene from *Ganoderma lucidum*, suppresses growth of colon cancer cells through  $\beta$ -catenin signaling. *Int J Oncol.* 2011;38(3):761-767.

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