

## Ganoderic acid A

### Chemical Properties

CAS No. : 81907-62-2

Formula: C<sub>30</sub>H<sub>44</sub>O<sub>7</sub>

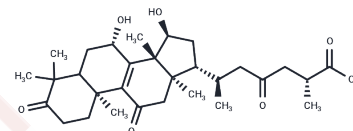
Molecular Weight: 516.67

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	1. Ganoderic acid A exhibits antitumor activity, mediated through its inhibitory effect on nuclear transcription factor-kappaB and activator protein-1. 2. Ganoderic acid A can induce proliferation inhibition, apoptosis and suppression of invasion in human osteosarcoma HOS and MG-63 cells. 3. Ganoderic acid A promotes cisplatin-induced cell death by enhancing the sensitivity of HepG2 cells to cisplatin mainly via the signal transducer and activator of transcription 3 suppression, significantly suppresses IL-6-induced signal transducer and activator of transcription 3 phosphorylation.
Targets(IC50)	Apoptosis, NF-κB, Endogenous Metabolite, Autophagy

### Solubility Information

Solubility	DMSO: 82.5 mg/mL (159.68 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (19.35 mM), Suspension. Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.9355 mL	9.6774 mL	19.3547 mL
5 mM	0.3871 mL	1.9355 mL	3.8709 mL
10 mM	0.1935 mL	0.9677 mL	1.9355 mL
50 mM	0.0387 mL	0.1935 mL	0.3871 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

Shao J , Li Z , Jiao G , et al. [Ganoderic acid A suppresses proliferation and invasion and induces apoptosis in human osteosarcoma cells]. [J]. Journal of Southern Medical University, 2015, 35(5):619.

HAN T, LI Z, ZHANG L, et al. Ganoderic acid A ameliorates renal fibrosis by suppressing the expression of NPC1L1. Biocell.2024

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