

## Ganoderic acid H

## Chemical Properties

CAS No. : 98665-19-1

Formula: C<sub>32</sub>H<sub>44</sub>O<sub>9</sub>

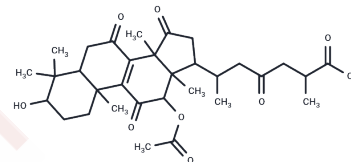
Molecular Weight: 572.69

Storage:

Store at low temperature, Keep away from direct sunlight

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	Ganoderic acid H is a potent antitumour agent, it mediates its biological effects through the inhibition of transcription factors AP-1 and NF-κB, resulting in the suppression of secretion of uPA.
Targets(IC50)	NF-κB, CDK, DNA/RNA Synthesis
In vitro	In highly invasive human breast cancer cells, Ganoderic acid H suppressed growth (cell proliferation and colony formation) and invasive behavior (adhesion, migration and invasion) of MDA-MB-231 cells[1]. Furthermore, the activity of Ganoderic acid H is linked to the hydroxylation in the positions 7 and 3 in its triterpene lanostane structure[1]. Ganoderic acid H could be a promising natural agent for the therapy of invasive breast cancers[1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (139.69 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: 3.3 mg/mL (5.76 mM), Sonication is recommended. <i>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.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.7461 mL	8.7307 mL	17.4615 mL
5 mM	0.3492 mL	1.7461 mL	3.4923 mL
10 mM	0.1746 mL	0.8731 mL	1.7461 mL
50 mM	0.0349 mL	0.1746 mL	0.3492 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

Jiang J, Grieb B, Thyagarajan A, Sliva D. Ganoderic acids suppress growth and invasive behavior of breast cancer cells by modulating AP-1 and NF-kappaB signaling. *Int J Mol Med*. 2008 May;21(5):577-84.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481