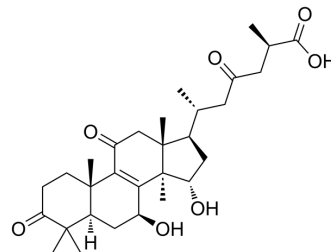


Ganoderic acid A

Cat. No.:	HY-N1447
CAS No.:	81907-62-2
Molecular Formula:	C ₃₀ H ₄₄ O ₇
Molecular Weight:	516.67
Target:	Apoptosis; Autophagy; Endogenous Metabolite
Pathway:	Apoptosis; Autophagy; Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 2 years; -20°C, 1 year (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (120.97 mM; Need ultrasonic)
Ethanol : ≥ 50 mg/mL (96.77 mM)
* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.03 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (4.03 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.03 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ganoderic acid A can inhibit of the JAK-STAT3 signaling pathway, also inhibit proliferation, viability, ROS.

In Vitro

A lower doses of Ganoderic acid A enhance HLA class II-mediated antigen presentation and CD4+ T cell recognition of lymphoma^[1].
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^[2].
Ganoderic acid A inhibits proliferation, viability, ROS, DPPH, and analyzed the expression of SOD1, SOD2, and SOD3 by Real

time PCR in a PC-3 cell in a dose-dependent manner^[3].
Ganoderic acid A effectively inhibits the proliferation of human osteosarcoma HOS and MG-63 cells in a dose-dependent manner, and induced obvious cell apoptosis in both cells^[4].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Ganoderic acid A treatment significantly prolonged survival of EL4 challenged mice and decreased tumor metastasis to the liver^[4].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Biochem Mol Toxicol. 2019 Nov;33(11):e22392.
- J Pharm Pharmacol. 2024 Feb 8;rgad116.
- Neuropsychiatr Dis Treat. 2021 Aug 14;17:2671-2681.
- Evid-Based Compl Alt. 31 May 2022.

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REFERENCES

- [1]. Radwan FF et al. Reduction of myeloid-derived suppressor cells and lymphoma growth by a natural triterpenoid. J Cell Biochem. 2015 Jan;116(1):102-14.
- [2]. Yao X et al. Inhibition of the JAK-STAT3 signaling pathway by ganoderic acid A enhances chemosensitivity of HepG2 cells to cisplatin. Planta Med. 2012 Nov;78(16):1740-8.
- [3]. Gill BS et al. Evaluating anti-oxidant potential of ganoderic acid A in STAT 3 pathway in prostate cancer. Mol Biol Rep. 2016 Sep 17.
- [4]. Shao J et al. [Ganoderic acid A suppresses proliferation and invasion and induces apoptosis in human osteosarcoma cells]. Nan Fang Yi Ke Da Xue Xue Bao. 2015 May;35(5):619-24.

Caution: Product has not been fully validated for medical applications. For research use only.

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