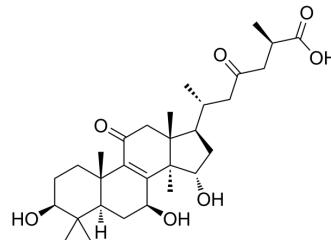


Ganoderic acid C2

Cat. No.:	HY-N1517
CAS No.:	103773-62-2
Molecular Formula:	C ₃₀ H ₄₆ O ₇
Molecular Weight:	518.68
Target:	Aldose Reductase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (96.40 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			1 mM	1.9280 mL	9.6399 mL	19.2797 mL
			5 mM	0.3856 mL	1.9280 mL	3.8559 mL
10 mM	0.1928 mL	0.9640 mL	1.9280 mL			
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (2.41 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (2.41 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (2.41 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Ganoderic acid C2 is a bioactive triterpenoid in <i>Ganoderma lucidum</i> . Ganoderic acid C2 possesses the potential anti-tumor bioactivity, antihistamine, anti-aging and cytotoxic effects. Ganoderic acid C2 exhibits high inhibitory activity against the rat lens aldose reductase (RLAR) with an IC ₅₀ of 3.8 μM ^{[1][2]} .
IC ₅₀ & Target	IC ₅₀ : 3.8 μM (RLAR) ^[2]

REFERENCES

[1]. Guo XY, et al. I characterization of minor metabolites and pharmacokinetics of ganoderic acid C2 in rat plasma by HPLC coupled with electrospray ionization tandem mass spectrometry. *J Pharm Biomed Anal.* 2013 Mar 5;75:64-73.

[2]. Fatmawati S, et al. Inhibition of aldose reductase in vitro by constituents of *Ganoderma lucidum*. *Planta Med.* 2010 Oct;76(15):1691-3.

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

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