

Ganoderic acid J

Chemical Properties

CAS No. : 100440-26-4

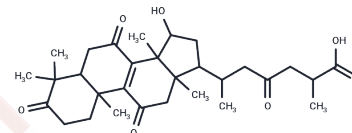
Formula: C₃₀H₄₂O₇

Molecular Weight: 514.66

Keep away from direct sunlight

Storage: 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 J is a natural lanostane-type triterpenoid isolated from the medicinal fungus <i>Ganoderma lucidum</i> . Since its initial characterization in 1985, Ganoderic acid J has been identified as a bioactive constituent with potent anti-inflammatory activity. As a representative member of the ganoderic acid family, it plays a critical role in modulating immune cell responses and mitigating inflammation. It serves as a significant molecular probe for investigating the pharmacological mechanisms of fungal secondary metabolites in inflammatory diseases
Targets(IC50)	Others
In vitro	Ganoderic acid J suppresses LPS-induced NO and pro-inflammatory cytokine production in macrophages. Its anti-inflammatory effects are mediated via modulation of NF-κB or MAPK signaling pathways [2].

Solubility Information

Solubility	DMSO: 40.00 mg/mL (77.72 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.943 mL	9.7152 mL	19.4303 mL
5 mM	0.3886 mL	1.943 mL	3.8861 mL
10 mM	0.1943 mL	0.9715 mL	1.943 mL
50 mM	0.0389 mL	0.1943 mL	0.3886 mL

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

Tsuyoshi Nishitoba, et al. New Terpenoids, Ganoderic Acid J and Ganolucidic Acid C, from the Fungus *Ganoderma lucidum*. *Agricultural and Biological Chemistry* Volume 49, 1985 - Issue 12.

Hai-Guo Su, et al. Lanostane triterpenoids with anti-inflammatory activities from *Ganoderma lucidum*. *Phytochemistry*. 2020 May;173:112256.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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