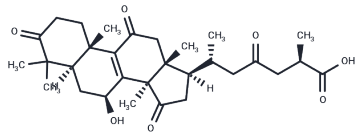
Data Sheet (Cat.No.TN1660)

TargetMol
YOUR TARGET MOLECULES

Ganoderic acid C1

Chemical Properties



CAS No. : 95311-97-0

Formula: C30H42O7

Molecular Weight: 514.65

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Ganoderic acid C1 has anti-inflammatory activity, has potential for treating TNF-α± mediated inflammation in asthma and other inflammatory diseases. Ganoderic acid C1 has anti-tumor-promoting activity. It is moderately active inhibitors against HIV-1 protease.
Targets(IC50)	IL Receptor,TNF,NF-κB,MAPK,COX,HIV Protease,DNA/RNA Synthesis
In vitro	Ganoderic acid C1 was isolated from G. lucidum. Stimulated RAW 264.7 macrophages were treated with Ganoderic acid C1. Human PBMCs and colonic biopsies were obtained from children with CD and cultured with or without Ganoderic acid C1. TNF-α± and other proinflammatory cytokine levels were measured in the culture supernatant. NF-κB signaling was investigated in PBMCs and colonic mucosa treated with Ganoderic acid C1 by In-Cell Western and Western blot analysis. GAC1 decreased TNF-α± production by macrophages and PBMCs from CD subjects. Ganoderic acid C1 significantly decreased TNF-α±, IFN-γ, and IL-17A production by inflamed colonic biopsies from CD subjects. These effects were due to the downregulation of the NF-κB signaling pathway[1].

Solubility Information

Solubility	DMSO: 48 mg/mL (93.26 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9431 mL	9.7153 mL	19.4307 mL
5 mM	0.3886 mL	1.9431 mL	3.8861 mL
10 mM	0.1943 mL	0.9715 mL	1.9431 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.

Reference

Liu C, et al. Anti-inflammatory Effects of Ganoderma lucidum Triterpenoid in Human Crohn's Disease Associated with Downregulation of NF-κB Signaling. Inflamm Bowel Dis. 2015 Aug;21(8):1918-25.