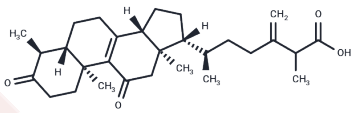
Data Sheet (Cat.No.TN7099)

TargetMol

antcin A

Chemical Properties



CAS No. : 163597-24-8

Formula: C29H42O4

Molecular Weight: 454.64

Storage: 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	antcin A is a steroid-like phytochemical isolated from the fruiting bodies of a precious edible mushroom Antrodia cinnamomea with strong anti-inflammatory and anti-tumor effects.
Targets(IC50)	NOD-like Receptor (NLR),NOD,Pyroptosis
In vitro	Antcin A could significantly inhibit the occurrence of pyrolysis, decrease the expression of inflammatory factors, inhibit the activation and assembly of NLRP3 inflammasome, and significantly down-regulate the expression of NLRP3, Caspase-1 and GSDMD-NT in KCs[1].
In vivo	In NAFLD mice, Antcin A could suppress the inflammatory response in liver tissues of mice, reduce lipid deposition, down-regulate the levels of ALT and AST, and improve liver function in mice. Antcin A could also inhibit the activation of NLRP3 inflammasome in liver tissue and decrease the level of inflammatory factors[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (109.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1995 mL	10.9977 mL	21.9954 mL
5 mM	0.4399 mL	2.1995 mL	4.3991 mL
10 mM	0.220 mL	1.0998 mL	2.1995 mL
50 mM	0.044 mL	0.220 mL	0.4399 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

Ruan S, et al. Antcin A alleviates pyroptosis and inflammatory response in Kupffercells of non-alcoholic fatty liver disease by targeting NLRP3. Int Immunopharmacol. 2021 Nov;100:108126.
Kumar KJS, et al. Antcin-A Modulates Epithelial-to-Mesenchymal Transition and Inhibits Migratory and Invasive Potentials of Human Breast Cancer Cells via p53-Mediated miR-200c Activation. Planta Med. 2019 Jul;85(9-10):755-765.