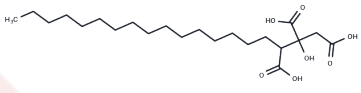
Data Sheet (Cat.No.T14140)

TargetMol

Agaric acid

Chemical Properties



CAS No. : 666-99-9

Formula: C22H40O7

Molecular Weight: 416.55

Storage: Store under nitrogen,Store at low temperature
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	Agaricic acid is an adenine nucleotide translocase antagonist.It is obtained from various plants of the fungous tribe, i.e. Polyporus officinalis and Polyporus igniarius. Agaric acid (Agaricinic Acid) induces mitochondrial permeability transition through its interaction with the adenine nucleotide translocase. Agaric acid promotes efflux of accumulated Ca 2+, collapse of transmembrane potential, and mitochondrial swelling. Agaric acid is used to regulate lipid metabolism.
Targets(IC50)	Calcium Channel,Mitochondrial Metabolism,Antibacterial,AChR

Solubility Information

Solubility	DMSO: 4.17 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4007 mL	12.0034 mL	24.0067 mL
5 mM	0.4801 mL	2.4007 mL	4.8013 mL
10 mM	0.2401 mL	1.2003 mL	2.4007 mL
50 mM	0.048 mL	0.2401 mL	0.4801 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

García N, et al. Agaric acid induces mitochondrial permeability transition through its interaction with the adenine nucleotide translocase. Its dependence on membrane fluidity. Mitochondrion. 2005 Aug;5(4):272-81.
Edmundo Chávez, Buelna-Chontal M , Arturo Macías-López, et al. Interaction of Agaric Acid with the Adenine Nucleotide Translocase Induces Mitochondrial Oxidative Stress[J]. Biochemistry Research International, 2020, 2020 (3):1-8.