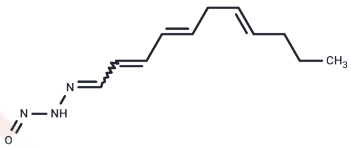
Data Sheet (Cat.No.T13199)

TargetMol

Triacsin C

Chemical Properties



CAS No. : 76896-80-5

Formula: C11H17N3O

Molecular Weight: 207.27

Storage: Store at low temperature,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	Triacsin C (WS 1228A) from Streptomyces aureofaciens is a differential inhibitor of arachidonic acid coenzyme A synthetase and non-specific long-chain acyl-coenzyme A synthetase, with anti-atherosclerotic activity, inhibition of ACSL activity, and inhibition of the accumulation of TAGs into lipid droplets (LDs).Triacsin C has been used to study rotavirus infection and Alzheimer;s disease. Triacsin C is used to study rotavirus infection and Alzheimer;s disease.
Targets(IC50)	Others,Parasite
In vivo	In interleukin knockout mice infected with Cryptosporidium, Triacsin C (8-15 mg/kg/d; oral gavage; 1 week) reduced parasite oocyst production by up to 88.1% with no apparent toxicity[3].

Solubility Information

Solubility	DMSO: 2.09 mg/mL (10.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8246 mL	24.1231 mL	48.2462 mL
5 mM	0.9649 mL	4.8246 mL	9.6492 mL
10 mM	0.4825 mL	2.4123 mL	4.8246 mL
50 mM	0.0965 mL	0.4825 mL	0.9649 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

Dechandt CRP, et al. Triacsin C reduces lipid droplet formation and induces mitochondrial biogenesis in primary rat hepatocytes. J Bioenerg Biomembr. 2017 Oct;49(5):399-411.
Kim Y, et al. Novel triacsin C analogs as potential antivirals against rotavirus infections. Eur J Med Chem. 2012 Apr; 50:311-8.
Guo F, et al. Amelioration of Cryptosporidium parvum infection in vitro and in vivo by targeting parasite fatty acyl-coenzyme A synthetases. J Infect Dis. 2014 Apr 15;209(8):1279-87.