

cis-Vaccenic acid

Chemical Properties

CAS No. : 506-17-2

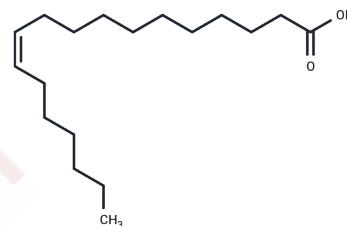
Formula: C₁₈H₃₄O₂

Molecular Weight: 282.46

Store at low temperature

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	cis-Vaccenic acid (Asclepic acid) is the antiviral extract from Rhodopseudomonas capsulate and the predominant active component of Rhodopseudomonas capsulate. cis-Vaccenic acid acts a potential fetal hemoglobin inducer.
Targets(IC50)	Antiviral,Antibiotic
In vitro	cis-Vaccenic acid (50 μM, 70 μM and 100 μM) induces differentiation and up-regulates gamma globin synthesis in K562, JK1 and transgenic mice erythroid progenitor stem cells. cis-Vaccenic acid (50 μM) also increased the percentage of benzidine positive JK-1 cell[2].

Solubility Information

Solubility	DMSO: 55 mg/mL (194.72 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5403 mL	17.7016 mL	35.4032 mL
5 mM	0.7081 mL	3.5403 mL	7.0806 mL
10 mM	0.354 mL	1.7702 mL	3.5403 mL
50 mM	0.0708 mL	0.354 mL	0.7081 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

H Hirotani, et al. Inactivation of T5 phage by cis-vaccenic acid, an antivirus substance from *Rhodopseudomonas capsulata*, and by unsaturated fatty acids and related alcohols. *FEMS Microbiol Lett.* 1991 Jan 1;61(1):13-7.

Idowu A Aimola, et al. Cis-vaccenic acid induces differentiation and up-regulates gamma globin synthesis in K562, JK1 and transgenic mice erythroid progenitor stem cells. *Eur J Pharmacol.* 2016 Apr 5;776:9-18.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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