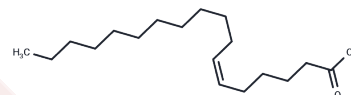


Petroselinic acid

Chemical Properties

CAS No. :	593-39-5
Formula:	C18H34O2
Molecular Weight:	282.46
Storage:	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	Petroselinic acid (5-Heptadecylene-1-carboxylic acid) is a monounsaturated omega-12 fatty acid found naturally in plant and animal oils and fats.
Targets(IC50)	Endogenous Metabolite, Antibacterial, Antibiotic, Antifungal

Solubility Information

Solubility	DMSO: 100 mg/mL (354.03 mM), Sonication is recommended. Ethanol: 100 mg/mL (354.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (14.16 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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

Metzger J O , Bornscheuer U . Lipids as renewable resources: current state of chemical and biotechnological conversion and diversification.[J]. Applied Microbiology & Biotechnology, 2006, 71(1):13-22.

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