

Elaidic acid

Chemical Properties

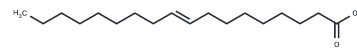
CAS No. : 112-79-8

Formula: C18H34O2

Molecular Weight: 282.46

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	Elaidic acid (trans-Oleic Acid) is the 9-trans isomer of oleic acid. It is a monounsaturated trans-fatty acid which can be found in partially hydrogenated cooking oils. In human platelets incubated with arachidonic acid, elaidic acid inhibits HHT and HETE formation while inducing prostaglandin and thromboxane synthesis.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 250 mg/mL (885.08 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (3.54 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

- Weir T L , Manter D K , Sheflin A M , et al. Stool Microbiome and Metabolome Differences between Colorectal Cancer Patients and Healthy Adults[J]. PLOS ONE, 2013, 8.
- Ni Y , Xie G , Jia W . Metabonomics of human colorectal cancer: New approaches for early diagnosis and biomarker discovery[J]. Journal of Proteome Research, 2014, 13(9):3857-70.
- ANDREI, SNOECK, NEYTS, et al. Antiviral activity of ganciclovir elaidic acid ester against herpesviruses[J]. Antiviral Research, 2000, 45(3):157-167.
- Stachowska E , Dołęgowska B , Chlubek D , et al. Dietary trans fatty acids and composition of human atheromatous plaques. European Journal of Nutrition, 2004, 43(5):313-318.
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