

Palmitoleic acid

Chemical Properties

CAS No. : 373-49-9

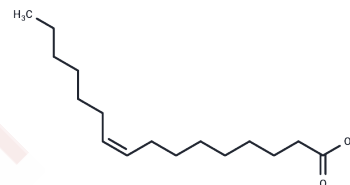
Formula: C₁₆H₃₀O₂

Molecular Weight: 254.41

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	Palmitoleic acid ((Z)-Hexadec-9-enoic acid) is found to be associated with isovaleric acidemia, which is an inborn error of metabolism.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: 1 mg/mL (3.93 mM),Sonication is recommended. DMSO: 50.88 mg/mL (199.99 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: 2 mg/mL (7.86 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	3.9307 mL	19.6533 mL	39.3066 mL
5 mM	0.7861 mL	3.9307 mL	7.8613 mL
10 mM	0.3931 mL	1.9653 mL	3.9307 mL
50 mM	0.0786 mL	0.3931 mL	0.7861 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

Ogunleye A, et al. Fatty acid composition of breast milk from Nigerian and Japanese women. *J Nutr Sci Vitaminol (Tokyo)*. 1991 Aug;37(4):435-42.

Bi G, Liang J, Shan G, et al. Retinol saturase mediates retinoid metabolism to impair a ferroptosis defense system in cancer cells. *Cancer Research*. 2023: CAN-22-3977.

Yamori Y, et al. Dietary prevention of stroke and its mechanisms in stroke-prone spontaneously hypertensive rats--preventive effect of dietary fibre and palmitoleic acid. *J Hypertens Suppl*. 1986 Oct;4(3):S449-52.

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