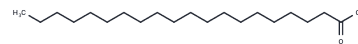


## Arachidic acid

## Chemical Properties

CAS No. :	506-30-9
Formula:	C <sub>20</sub> H <sub>40</sub> O <sub>2</sub>
Molecular Weight:	312.53
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	Arachidic acid (Icosanoic Acid) is a saturated fatty acid found naturally in fish and vegetable oils (such as those from peanuts). It can also be formed by the hydrogenation of arachidonic acid. Diets rich in saturated fatty acids, such as arachidic acid, are known to increase serum low-density lipoproteins resulting in high blood cholesterol levels.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	Chloroform: 50 mg/mL (159.98 mM),Sonication is recommended. DMSO: 8.06 mg/mL (25.79 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: 1 mg/mL (3.2 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	3.1997 mL	15.9985 mL	31.9969 mL
5 mM	0.6399 mL	3.1997 mL	6.3994 mL
10 mM	0.320 mL	1.5998 mL	3.1997 mL
50 mM	0.064 mL	0.320 mL	0.6399 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

Nestel, P., et al. Effects of increasing dietary palmitoleic acid compared with palmitic and oleic acids on plasma lipids of hypercholesterolemic men. J. Lipid Res. 35, 656-662 (1994).

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