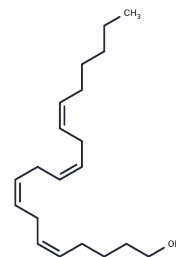


Arachidonyl alcohol

Chemical Properties

CAS No. :	13487-46-2
Formula:	C ₂₀ H ₃₄ O
Molecular Weight:	290.48
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	Arachidonyl alcohol, a long-chain primary fatty alcohol, serves as a substrate for synthesizing various ether lipids with beneficial functions.
Targets(IC50)	Others
In vitro	Arachidonyl alcohol, which can be synthesized from arachidonic acid, accumulates intracellularly as a wax ester. Acinetobacter species N-476-2 efficiently catalyzes the conversion of arachidonic acid to arachidonyl alcohol.

Solubility Information

Solubility	DMSO: 250 mg/mL (860.64 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: 3.3 mg/mL (11.36 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	3.4426 mL	17.2129 mL	34.4258 mL
5 mM	0.6885 mL	3.4426 mL	6.8852 mL
10 mM	0.3443 mL	1.7213 mL	3.4426 mL
50 mM	0.0689 mL	0.3443 mL	0.6885 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

Toshihiro Nagao, et al. Microbial Conversion of Arachidonic Acid to Arachidonyl Alcohol by a New Acinetobacter Species. Journal of the American Oil Chemists' Society volume 89, pages1663-1671(2012)

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481