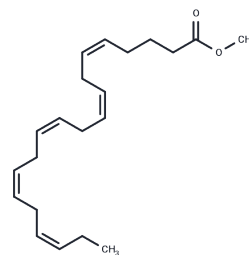


Eicosapentaenoic acid methyl ester

Chemical Properties

CAS No. :	2734-47-6
Formula:	C ₂₁ H ₃₂ O ₂
Molecular Weight:	316.48
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	Eicosapentaenoic acid methyl ester (Methyl eicosapentaenoate) is a degradant of monogalactosyl diacylglycerol (MGDG). MGDG is a natural galactolipid isolated from marine diatoms with potent anticancer activity, primarily functioning by inducing apoptosis. Eicosapentaenoic acid methyl ester is frequently utilized as a biochemical tool for studying lipid degradation, metabolism, and the biological activities of marine natural products.
Targets(IC50)	Drug Metabolite

Solubility Information

Solubility	DMSO: 80 mg/mL (252.78 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1598 mL	15.7988 mL	31.5976 mL
5 mM	0.632 mL	3.1598 mL	6.3195 mL
10 mM	0.316 mL	1.5799 mL	3.1598 mL
50 mM	0.0632 mL	0.316 mL	0.632 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

Andrianasolo EH, et, al. Apoptosis-inducing galactolipids from a cultured marine diatom, *Phaeodactylum tricornutum*. *J Nat Prod*. 2008 Jul;71(7):1197-201.

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