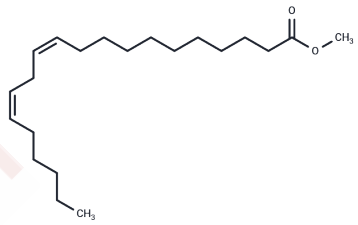
Data Sheet (Cat.No.T38341)

TargetMol

11(Z),14(Z)-Eicosadienoic Acid methyl ester

Chemical Properties



CAS No. : 61012-46-2

Formula: C21H38O2

Molecular Weight: 322.53

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	11(Z),14(Z)-Eicosadienoic acid methyl ester is a more lipid soluble form of the ω-6 C20-2 fatty acid 11(Z),14(Z)-eicosadienoic acid , a naturally occurring PUFA. 11(Z),14(Z)-Eicosadienoic acid competitively inhibits inosine 5'-monophosphate dehydrogenase (Ki = 3.1 μM) and inhibits the binding of LTB4 to its receptor on neutrophils (Ki = 3.0 μM). Also, serum levels of eicosadienoic acids negatively correlate with degree of sleep disturbance. Eicosadienoic acids are converted by desaturases, in vivo, to eicosatrienoic acids, which are potent vasodilators.
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 10 mg/mL (31 mM),Sonication is recommended. Ethanol: 10 mg/mL (31 mM),Sonication is recommended. PBS (pH 7.2): 0.5 mg/mL (1.55 mM),Sonication is recommended. DMF: 10 mg/mL (31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1005 mL	15.5024 mL	31.0049 mL
5 mM	0.6201 mL	3.1005 mL	6.201 mL
10 mM	0.310 mL	1.5502 mL	3.1005 mL
50 mM	0.062 mL	0.310 mL	0.6201 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.

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