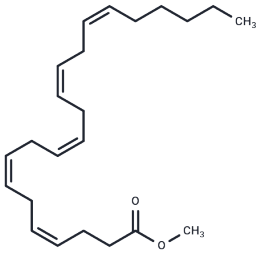
Data Sheet (Cat.No.T84379)

TargetMol

all-cis-4,7,10,13,16-Docosapentaenoic Acid methyl ester

Chemical Properties



CAS No. : 31930-67-3

Formula: C23H36O2

Molecular Weight: 344.539

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	All-cis-4,7,10,13,16-Docosapentaenoic acid (all-cis-4,7,10,13,16-DPA) methyl ester, also known as Osbond acid, is an isomer of DPA and a more lipid-soluble variant of the free acid, primarily found in fish oils as an ω-3, 22-carbon fatty acid. Despite being an ω-6 fatty acid synthesized through the elongation and desaturation of arachidonic acid, its levels can decrease due to fatty acid desaturase syndrome, potentially impacting development. Additionally, increased expression of hepatic elongation of very long fatty acids protein 6 and elevated levels of very long-chain fatty acids, including all-cis-4,7,10,13,16-DPA, are indicative of nonalcoholic steatohepatitis, a condition that precedes hepatocellular carcinoma.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9024 mL	14.5121 mL	29.0242 mL
5 mM	0.5805 mL	2.9024 mL	5.8048 mL
10 mM	0.2902 mL	1.4512 mL	2.9024 mL
50 mM	0.058 mL	0.2902 mL	0.5805 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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