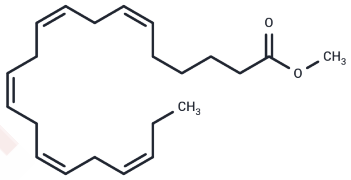
Data Sheet (Cat.No.T84469)

TargetMol

Heneicosapentaenoic Acid methyl ester

Chemical Properties



CAS No. : 65919-53-1

Formula: C22H34O2

Molecular Weight: 330.5

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	Heneicosapentaenoic Acid (HPA) is a fatty acid found in small amounts in Bryopsis pennata Lamouroux green algae and fish oils, with a structure similar to eicosapentaenoic acid (EPA), but with an additional carbon at the carboxyl end, resulting in the first double bond being in the Δ6 position. HPA is important for researching the impact of double bond positions in n-3 fatty acids, as it integrates into phospholipids and triacylglycerol in vivo as effectively as EPA and docosahexaenoic acid (DHA), while strongly inhibiting the synthesis of arachidonic acid from linoleic acid. Despite being a poor substrate for prostaglandin H (PGH) synthase and 5-lipoxygenase, HPA can rapidly deactivate PGH synthase. HPA methyl ester, in certain formulations, acts as a prodrug to enhance cellular uptake of HPA before being converted into free acid by esterases, and serves as a useful reference standard.
Targets(IC50)	Others,PGE Synthase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0257 mL	15.1286 mL	30.2572 mL
5 mM	0.6051 mL	3.0257 mL	6.0514 mL
10 mM	0.3026 mL	1.5129 mL	3.0257 mL
50 mM	0.0605 mL	0.3026 mL	0.6051 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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