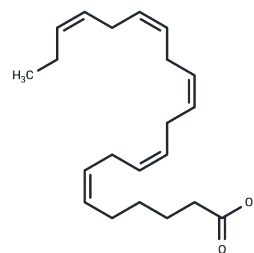


Heneicosapentaenoic Acid

Chemical Properties

CAS No. :	24257-10-1
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	Heneicosapentaenoic Acid (HPA) is a 21:5 ω-3 fatty acid present in trace amounts in the green alga *B. pennata* and in fish oils. Its structure is similar to eicosapentaenoic acid (EPA) but elongated with one carbon at the carboxyl end, placing the first double bond in the δ6 position. HPA is utilized to study the significance of the position of double bonds in ω-3 fatty acids and incorporates into phospholipids and triacylglycerol in vivo as efficiently as EPA and docosahexaenoic acid. It strongly inhibits arachidonic acid synthesis from linoleic acid, is a poor substrate for prostaglandin H synthase (PGHS) (cyclooxygenase) and 5-lipoxygenase, but rapidly inactivates PGHS.
Targets(IC50)	Others

Solubility Information

Solubility	PBS (pH 7.2): <100 µg/mL (from Oleic Acid), Sonication is recommended. 0.15 M Tris-HCl (pH 8.5): >1 mg/mL (from Oleic Acid), Sonication is recommended. DMF: >100 mg/mL (from Oleic Acid), Sonication is recommended. DMSO: >100 mg/mL (from Oleic Acid), Sonication is recommended. Ethanol: >100 mg/mL (from Oleic Acid), 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.

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