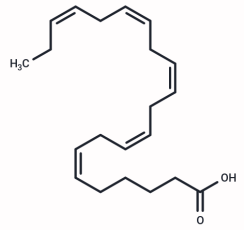
Heneicosapentaenoic Acid

Cat. No.: **SN-M-LM208**

Chemical Properties

Product Name	Heneicosapentaenoic Acid
Full Name	(6Z,9Z,12Z,15Z,18Z)-henicosa-6,9,12,15,18-pentaenoic acid
Cat. No.	SN-M-LM208
CAS No.	24257-10-1
Molecular Formula	C21H32O2
Molecular Weight	316.48
Storage	Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Shipping	Shipping with blue ice/Shipping at ambient temperature.
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), Sonicatio
Purity	98+%

Structure



Biological 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 chemical composition is similar to eicosapentaenoic acid (EPA) except elongated with one carbon on the carboxyl end, placing the first double bond in the δ6 position. HPA can be used to study the significance of the position of the double bonds in ω-3 fatty acids. It incorporates into phospholipids and into triacylglycerol in vivo with the same efficiency as EPA and docosahexaenoic acid and exhibits strong inhibition of arachidonic acid synthesis from linoleic acid. HPA is a poor substrate for prostaglandin H synthase (PGHS) (cyclooxygenase) and for 5-lipoxygenase but retains the ability to rapidly inactivate PGHS.

Related Products / Keywords

- Heneicosapentaenoic Acid

This product is a research reagent and must not be used for clinical validation or human therapeutic use.