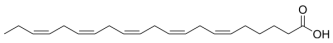
(all-Z)-6,9,12,15,18-Heneicosapentaenoic Acid

Cat. No.:	HY-N7833
CAS No.:	24257-10-1
Molecular Formula:	$C_{21}H_{32}O_2$
Molecular Weight:	316.48
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Heneicosapentaenoic Acid (HPA) is a 21:5 omega-3 fatty acid found in trace amounts in the green alga B. pennata and in fish oils. Its chemical composition is similar to eicosapentaenoic acid (EPA), except that a carbon is extended at the carboxy terminus, placing the first double bond at the δ6 position. HPA can be used to study the importance of double bond position in omega-3 fatty acids. It incorporates phospholipids and triacylglycerols in vivo with the same efficiency as EPA and docosahexaenoic acid, and exhibits a strong inhibitory effect on the synthesis of arachidonic acid from linoleic acid. HPA is a poor substrate for prostaglandin H synthase (PGHS) (cyclooxygenase) and 5-lipoxygenase, but retains the ability to rapidly inactivate PGHS.

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