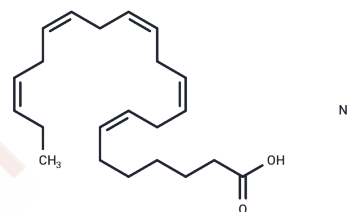


Docosapentaenoic acid (22n-3) sodium

Chemical Properties

CAS No. : 2983837-44-9
 Formula: C₂₂H₃₄NaO₂
 Molecular Weight: 353.494
 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	Docosapentaenoic acid (22n-3) sodium is a component of phospholipids. It exhibits inhibitory activity against α -amylase and α -glucosidase, with IC ₅₀ values of 17 μ g/mL and 22 μ g/mL, respectively. Additionally, Docosapentaenoic acid 22n-3 sodium enhances cell viability and has mild anti-inflammatory effects.
Targets(IC50)	Amylase, glycosidase
In vitro	Docosapentaenoic acid 22n-3 sodium (50-100 μ M; 24 h) enhances the viability of bone marrow stem cells (BMSCs). This compound exhibits inhibitory activity against α -amylase and α -glucosidase with IC ₅₀ values of 17 μ g/mL and 22 μ g/mL, respectively. However, its anti-inflammatory effect at 16 μ g/mL is weaker than that of Phenylalanine.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8289 mL	14.1447 mL	28.2893 mL
5 mM	0.5658 mL	2.8289 mL	5.6579 mL
10 mM	0.2829 mL	1.4145 mL	2.8289 mL
50 mM	0.0566 mL	0.2829 mL	0.5658 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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