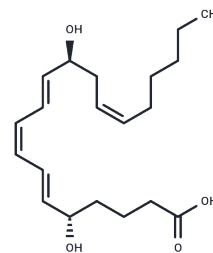


5(S),12(S)-DiHETE

Chemical Properties

CAS No. :	79056-01-2
Formula:	C ₂₀ H ₃₂ O ₄
Molecular Weight:	336.472
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	5(S),12(S)-DiHETE is a natural bioactive lipid derived from arachidonic acid . It is synthesized by glycogen-induced rabbit peritoneal polymorphonuclear leukocytes (PMNLs) incubated with AA. 5(S),12(S)-DiHETE can be produced by successive oxygenation of AA by 5-lipoxygenase (5-LO) in platelets and 12-LO in leukocytes. It can also be synthesized from 12(S)-HETE by 5-LO, in the presence of 5-LO activating protein (FLAP), activated with calcium ionophore. 5(S),12(S)-DiHETE is an epimer of leukotriene B ₄ that is weakly chemotactic for PMNL.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: >50 mg/mL (per Rao Maddipati),Sonication is recommended. PBS (pH 7.2): >1 mg/mL (from 13(S)-HODE),Sonication is recommended. Ethanol: >50 mg/mL (per Rao Maddipati),Sonication is recommended. DMF: >50 mg/mL (per Rao Maddipati),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	2.972 mL	14.8602 mL	29.7203 mL
5 mM	0.5944 mL	2.972 mL	5.9441 mL
10 mM	0.2972 mL	1.486 mL	2.972 mL
50 mM	0.0594 mL	0.2972 mL	0.5944 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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