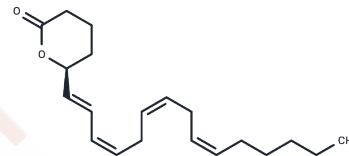


5(S)-HETE lactone

Chemical Properties

CAS No. :	127708-42-3
Formula:	C ₂₀ H ₃₀ O ₂
Molecular Weight:	302.45
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)-HETE lactone is a metabolite of arachidonic acid and is commonly used in research on inflammatory responses and lipid signaling pathways.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: >50 mg/mL (per Rao Maddipati), Sonication is recommended. Ethanol: >50 mg/mL (per Rao Maddipati), Sonication is recommended. DMF: >50 mg/mL (per Rao Maddipati), Sonication is recommended. PBS (pH 7.2): >1 mg/mL (from 13(S)-HODE), 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	3.3063 mL	16.5317 mL	33.0633 mL
5 mM	0.6613 mL	3.3063 mL	6.6127 mL
10 mM	0.3306 mL	1.6532 mL	3.3063 mL
50 mM	0.0661 mL	0.3306 mL	0.6613 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.

Reference

P G Schulam, et al. Evidence for 5-lipoxygenase activity in human B cell lines. A possible role for arachidonic acid metabolites during B cell signal transduction.

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