

12(S)-HETrE

Chemical Properties

CAS No. : 72710-10-2

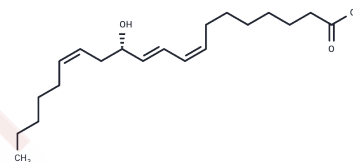
Formula: C₂₀H₃₄O₃

Molecular Weight: 322.48

Store at low temperature

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	12(S)-HETrE is an endogenous metabolite produced by oxidation of ω -6 PUFA dihomo- γ -linolenic acid (DGLA) by 12-lipoxygenase (12-LOX) in platelets, which acts on G α s-coupled G-protein-coupled receptors, has antithrombotic properties, and has potential therapeutic use in cardiovascular disease. 12(S)-HETrE is reported to inhibit agonist-mediated platelet activation (IC ₅₀ = 40 μ M), α granule secretion, integrin α IIb β 3 activation, Rap1 activation, and thrombin-induced clot retraction in vitro.
Targets(IC ₅₀)	Others,Endogenous Metabolite,Integrin,PKA
In vitro	12(S)-HETrE (20, 40 μ M) treated platelets, and at a concentration of 40 μ M, platelets are sensitive to them, which can have an inhibitory effect on platelets. [1]

Solubility Information

Solubility	0.1 M Na ₂ CO ₃ : 4 mg/mL (12.4 mM),Sonication is recommended. PBS (pH 7.2): < 1 mg/ml (slightly soluble or insoluble),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	3.101 mL	15.5048 mL	31.0097 mL
5 mM	0.6202 mL	3.101 mL	6.2019 mL
10 mM	0.3101 mL	1.5505 mL	3.101 mL
50 mM	0.062 mL	0.3101 mL	0.6202 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

Ikei KN, et al. Investigations of human platelet-type 12-lipoxygenase: role of lipoxygenase products in platelet activation. J Lipid Res. 2012 Dec;53(12):2546-59.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481