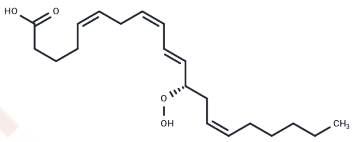
Data Sheet (Cat.No.T37969)

TargetMol

12(S)-HpETE

Chemical Properties



CAS No. : 71774-10-2

Formula: C20H32O4

Molecular Weight: 336.47

Storage: Store at low temperature
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)-HpETE is a monohydroperoxy polyunsaturated fatty acid (PUFA) produced by the action of platelet or leukocyte 12-lipoxygenase (12-LO) on arachidonic acid. It activates human blood leukocyte 5-LOE. 12(S)-HpETE is the mediator of many biological functions, including induction of c-fos and c-jun, activation of AP-1, and endothelium-dependent vasoconstriction. It mediates the inhibitory synaptic response to FMRF-amide in Aplysia sensory neurons and inhibits Ca2+/calmodulin-dependent protein kinase II from rat brain cortex.
Targets(IC50)	Others,Endogenous Metabolite,DNA/RNA Synthesis

Solubility Information

Solubility	PBS (pH 7.2): < 1 mg/ml (slightly soluble or insoluble),Sonication is recommended. 0.1 M Na2CO3: 1 mg/mL (2.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

Reference

Nishiyama M, et al. Endothelium is required for 12-hydroperoxyeicosatetraenoic acid-induced vasoconstriction. Eur J Pharmacol. 1998 Jan 2;341(1):57-63.
Rao GN, et al. Role of hydroperoxyeicosatetraenoic acids in oxidative stress-induced activating protein 1 (AP-1) activity. J Biol Chem. 1996 Nov 1;271(44):27760-4.
Xie C, et al. Inhibition of renin release by arachidonic acid metabolites, 12(s)-HPETE and 12-HETE: role of TRPV1 channels. Endocrinology. 2011 Oct;152(10):3811-9.

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