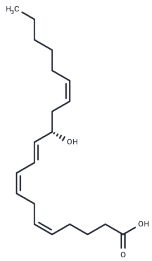
Data Sheet (Cat.No.T37047)

TargetMol

12(S)-HETE

Chemical Properties



CAS No. : 54397-83-0

Formula: C20H32O3

Molecular Weight: 320.47

Storage: Store at low temperature
Pure form: -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)-HETE, a 12-lipoxygenase metabolite of arachidonic acid, is mitogenic for cancer cell proliferation and enhances angiotensin II-induced contraction of BLT2 (type 2 receptor in arteries of leukotriene B4 mice) and TP (thromboxane receptor)-mediated mechanisms. 12(S)-HETE promotes superoxide and isothromboxane-like metabolites in arterial endothelial cells. production.
Targets(IC50)	ERK,DNA/RNA Synthesis,p38 MAPK

Solubility Information

Solubility	PBS(pH 7.2): < 0.1 mg/mL (insoluble) 0.1 M Na2CO3: 1 mg/mL (3.12 mM),Sonication is recommended. PBS (pH 7.2): 0.8 mg/mL (2.5 mM),Sonication is recommended. <0.1 M Na2CO3: 2 mg/mL (6.24 mM),Sonication is recommended. Ethanol: 1 mg/mL (3.12 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1204 mL	15.6021 mL	31.2042 mL
5 mM	0.6241 mL	3.1204 mL	6.2408 mL
10 mM	0.312 mL	1.5602 mL	3.1204 mL
50 mM	0.0624 mL	0.312 mL	0.6241 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

Grossi IM, et al. Bidirectional control of membrane expression and/or activation of the tumor cell IRGpIIb/IIIa receptor and tumor cell adhesion by lipoxygenase products of arachidonic acid and linoleic acid. Cancer Res. 1989 Feb 15;49(4):1029-37.

Honn, K. V. et al. Fatty acid modulation of tumor cell adhesion to microvessel endothelium and experimental metastasis. Prostaglandins 44.5(1992):413-429.

Ding XZ, et al. 12-lipoxygenase metabolite 12(S)-HETE stimulates human pancreatic cancer cell proliferation via protein tyrosine phosphorylation and ERK activation. Int J Cancer. 2001 Dec 1;94(5):630-6.

Tang DG, et al. 12(S)-HETE is a mitogenic factor for microvascular endothelial cells: its potential role in angiogenesis. Biochem Biophys Res Commun. 1995 Jun 15;211(2):462-8.

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