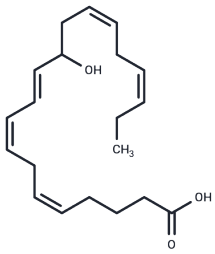
Data Sheet (Cat.No.T35506)

TargetMol

(±)12-HEPE

Chemical Properties



CAS No. : 81187-21-5

Formula: C20H30O3

Molecular Weight: 318.457

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-HEPE is produced by non-enzymatic oxidation of EPA, resulting in equal amounts of 12(S)-HEPE and 12(R)-HEPE. The biological activity of (±)12-HEPE is likely mediated by one of the individual isomers, primarily the 12(S) isomer in mammalian systems. 12-HEPE inhibits platelet aggregation with an IC50 of 24 μM, similar to 12-HETE (IC50 = 25 μM), and both compounds also inhibit U46619-induced contraction of rat aorta with IC50 values between 8.6-8.8 μM. [1][2]
Targets(IC50)	Others,Prostaglandin Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1401 mL	15.7006 mL	31.4011 mL
5 mM	0.628 mL	3.1401 mL	6.2802 mL
10 mM	0.314 mL	1.5701 mL	3.1401 mL
50 mM	0.0628 mL	0.314 mL	0.628 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

Takenaga, M., Hirai, A., Terano, T., et al. Comparison of the in vitro effect of eicosapentaenoic acid (EPA)-derived lipoxygenase metabolites on human platelet function with those of arachidonic acid. Thrombosis Research 37, 373-384 (1986).

Karanian, J.W., Kim, H.Y., and Salem, N., Jr. Inhibitory effects of n-6 and n-3 hydroxy fatty acids on thromboxane (U46619)-induced smooth muscle contraction. J. Pharmacol. Exp. Ther. 270(3), 1105-1109 (1994).

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