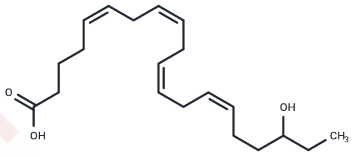
Data Sheet (Cat.No.T35467)

TargetMol

(±)18-HETE

Chemical Properties



CAS No. : 133268-58-3

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	(±)18-HETE (18-Hydroxyeicosatetraenoic acid) is an arachidonic acid metabolite with a hydroxyl group on carbon 18, catalyzed by cytochrome P-450.
Targets(IC50)	Endogenous Metabolite
In vitro	(±)18-HETE is a monohydroxylated metabolite derived from arachidonic acid through the ω-oxidation pathway mediated by cytochrome P450 enzymes. [1]

Solubility Information

Solubility	PBS (pH 7.2): < 1 mg/mL (insoluble),Sonication is recommended. DMF: Miscible Ethanol: Miscible DMSO: Miscible 0.1 M Na2CO3: 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

Heckmann, B., Mioskowski, C., Lumin, S., Falck, J. R., Wei, S., & Capdevila, J. H. (1999). Chiral acetals: Stereocontrolled syntheses of 16-, 17-, and 18-hydroxyeicosatetraenoic acids, cytochrome P-450 arachidonate metabolites. Tetrahedron Letters, 37(9), 1425-1428.