Data Sheet (Cat.No.T36559)

TargetMol

(±)9-HODE

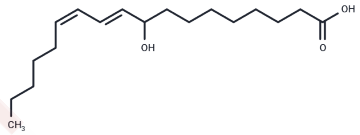
Chemical Properties

CAS No. : 98524-19-7

Formula: C18H32O3

Molecular Weight: 296.44

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	(±)9-HODE is one of the two racemic monohydroxy fatty acids resulting from the non-enzymatic oxidation of linoleic acid. Approximately equal proportions of both isomers are found in mitochondrial and plasma membranes of rabbit reticulocytes. [1][2] Oxidized LDL contains significant amounts of esterified 9- and 13-HpODEs and HODEs. [3][4]
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	DMF: 50 mg/mL (168.67 mM),Sonication is recommended. DMSO: 50 mg/mL (168.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3734 mL	16.8668 mL	33.7336 mL
5 mM	0.6747 mL	3.3734 mL	6.7467 mL
10 mM	0.3373 mL	1.6867 mL	3.3734 mL
50 mM	0.0675 mL	0.3373 mL	0.6747 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

Kühn, H., Belkner, J., and Wiesner, R. Subcellular distribution of lipoxygenase products in rabbit reticulocyte membranes. Eur. J. Biochem. 191(1), 221-227 (1990).
Kühn, H., Belkner, J., and Wiesner, R. Metabolism of polyenoic fatty acids by rabbit reticulocytes. Intracellular action of the erythroid lipoxygenase on membrane lipids. Biomedica Biochimica Acta 49, S25-S30 (1990).
Folcik, V.A., and Cathcart, M.K. Predominance of esterified hydroperoxy-linoleic acid in human monocyte-oxidized LDL. Journal of Lipid Research 35, 1570-1582 (1994).
Ku, G., Thomas, C.E., Akeson, A.L., et al. Induction of interleukin 1β expression from human peripheral blood monocyte-derived macrophages by 9-hydroxyoctadecadienoic acid. J. Biol. Chem. 267(20), 14183-14188 (1992).

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