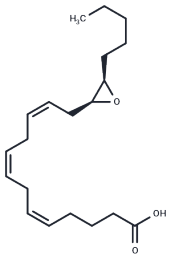
Data Sheet (Cat.No.T36152)

TargetMol

14S(15R)-EET

Chemical Properties



CAS No. : 105304-92-5

Formula: C20H32O3

Molecular Weight: 320.47

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	14S(15R)-EET is an oxylipin and a cytochrome P450 metabolite of arachidonic acid .114S(15R)-EET binds to isolated guinea pig monocytes with a Kivalue of 612.5 nM in a competitive binding assay using [3H]14(15)-EET.2It induces dilation of precontracted isolated canine epicardial arterioles (EC50= 4 pM) and denuded porcine subepicardial arterioles (EC50= 3 pM).3Unlike 14R(15S)-EET, 14S(15R)-EET does not inhibit COX in enzyme assays or isolated platelets.4
Targets(IC50)	Others

Solubility Information

Solubility	Ethanol: Soluble (< 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

Daikh, B.E., Lasker, J.M., Raucy, J.L., et al.Regio- and stereoselective epoxidation of arachidonic acid by human cytochromes P450 2C8 and 2C91J. Pharmacol. Exp. Ther.271(3)1427-1433(1994)
Wong, P.Y.-K., Lai, P.-S., and Falck, J.R.Mechanism and signal transduction of 14 (R), 15 (S)-epoxyeicosatrienoic acid (14,15-EET) binding in guinea pig monocytesProstaglandins Other Lipid Mediat.62(4)321-333(2000)
Zhang, Y., Oltman, C.L., Lu, T., et al.EET homologs potently dilate coronary microvessels and activate BKCa channelsAm. J. Physiol. Heart Circ. Physiol.280(6)H2430-H2440(2001)
Fitzpatrick, F.A., Ennis, M.D., Baze, M.E., et al.Inhibition of cyclooxygenase activity and platelet aggregation by epoxyeicosatrienoic acidsJ. Biol. Chem.261(2)15334-15338(1986)

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