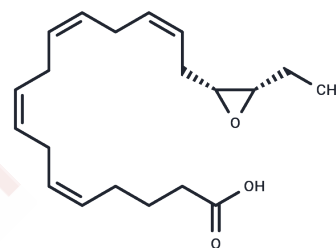


17R(18S)-EpETE

Chemical Properties

CAS No. :	725246-18-4
Formula:	C ₂₀ H ₃₀ O ₃
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	17R(18S)-EpETE is an oxylipin and a cytochrome P450 metabolite of eicosapentaenoic acid .1,217R(18S)-EpETE is an activator of large-conductance calcium-activated potassium (BKCa) channels, increasing the potassium current amplitude by 15-fold in isolated rat cerebral artery vascular smooth muscle cells (VSMCs) at +60 mV when used at a concentration of 50 nM.2It has negative chronotropic effects in isolated neonatal rat cardiomyocytes (NRCMs; EC50= ~1-2 nM) and prevents calcium-induced increases in the spontaneous beating of NRCMs.3,4
Targets(IC50)	Others,Calcium Channel

Solubility Information

Solubility	Ethanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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

- Schwarz, D., Kisselev, P., Ericksen, S.S., et al. Arachidonic and eicosapentaenoic acid metabolism by human CYP1A1: Highly stereoselective formation of 17(R), 18(S)-epoxyeicosatetraenoic acid *Biochem. Pharmacol.* 67(8) 1445-1457(2004)
- Lauterbach, B., Barbosa-Sicard, E., Wang, M.H., et al. Cytochrome P450-dependent eicosapentaenoic acid metabolites are novel BK channel activators *Hypertension* 39(2 Pt. 2) 609-613(2002)
- Falck, J.R., Wallukat, G., Puli, N., et al. 17(R),18(S)-Epoxyeicosatetraenoic acid, a potent eicosapentaenoic acid (EPA) derived regulator of cardiomyocyte contraction: Structure-activity relationships and stable analogues *J. Med. Chem.* 54(12) 4109-4118(2011)
- Arnold, C., Markovic, M., Blossey, K., et al. Arachidonic acid-metabolizing cytochrome P450 enzymes are targets of omega-3 fatty acids *J. Biol. Chem.* 285(43) 32720-32733(2010)

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