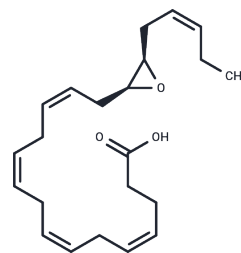


(±)16(17)-EpDPA**Chemical Properties**

CAS No. :	155073-46-4
Formula:	C22H32O3
Molecular Weight:	344.495
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	EDHF (endothelium-derived hyperpolarizing factor) is an unidentified mediator released from vascular endothelial cells in response to acetylcholine and bradykinin which is distinct from the NOS- (nitric oxide) and COX-derived (prostacyclin) vasodilators.[1],[2] Cytochrome P450 (CYP450) metabolism of polyunsaturated fatty acids produces epoxides such as (±)14(15)-EET which are prime candidates for the actual active mediator.[3] However, the CYP450 metabolites of eicosapentaenoic acid and docosahexaenoic acid have been little studied relative to arachidonate epoxygenase metabolites. (±)16(17)-EpDPA is the DHA homolog of (±)14(15)-EpETrE, derived via epoxidation of the 16,17-double bond of DHA. The EDHF activity of (±)16(17)-EpDPA has not yet been determined. The epoxygenase metabolites of DHA have also been detected in a mouse inflammation model.[4]
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 50 mg/mL (145.14 mM),Sonication is recommended. DMF: 50 mg/mL (145.14 mM),Sonication is recommended. PBS (pH 7.2): 1 mg/mL (2.9 mM),Sonication is recommended. Ethanol: 50 mg/mL (145.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9028 mL	14.5138 mL	29.0276 mL
5 mM	0.5806 mL	2.9028 mL	5.8055 mL
10 mM	0.2903 mL	1.4514 mL	2.9028 mL
50 mM	0.0581 mL	0.2903 mL	0.5806 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

Chataigneau, T., Félétou, M., Duhault, J., et al. Epoxyeicosatrienoic acids, potassium channel blockers, and endothelium-dependent hyperpolarization in the guinea-pig carotid artery. *Br. J. Pharmacol.* 123(3), 574-580 (1998).

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