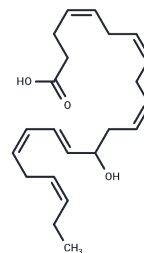


**(±)13-HDHA****Chemical Properties**

CAS No. :	90780-53-3
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	(±)13-HDHA is an autoxidation product of docosahexaenoic acid (DHA) in vitro. It is also produced from incubations of DHA in rat liver, brain, and intestinal microsomes. Fresh water hydra was shown to metabolize DHA to 13(R)-HDHA, presumably via the 11R-lipoxygenase activity. (±)13-HDHA is a potential marker of oxidative stress in brain and retina where DHA is an abundant polyunsaturated fatty acid.
Targets(IC50)	Others

**Solubility Information**

Solubility	Ethanol: Miscible PBS (pH 7.2): 0.8 mg/mL (2.32 mM), Sonication is recommended. 0.1 M Na <sub>2</sub> CO <sub>3</sub> : 2 mg/mL (5.81 mM), Sonication is recommended. DMSO: Miscible DMF: Miscible ( $< 1$ 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.

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