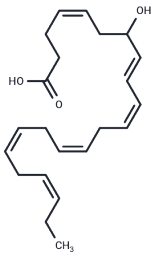
Data Sheet (Cat.No.T36606)

TargetMol

(±)7-HDHA

Chemical Properties



CAS No. : 90780-55-5

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	(±)7-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. Enzymatic transformation of DHA by RBL-1 cells and human neutrophils also produces 7-HDHA. However, the enzymatic product is most likely the S-isomer. (±)7-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	DMF: Miscible DMSO: Miscible PBS (pH 7.2): 0.8 mg/mL (2.32 mM),Sonication is recommended. 0.1 M Na2CO3: 2 mg/mL (5.81 mM),Sonication is recommended. Ethanol: Miscible (< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

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