

**(±)14-HDHA****Chemical Properties**

CAS No. : 87042-40-8

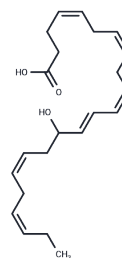
Formula: C<sub>22</sub>H<sub>32</sub>O<sub>3</sub>

Molecular Weight: 344.49

Store at low temperature

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	(±)14-HDHA is a hydroxydocosahexaenoic acid, an oxidized metabolite of DHA generated intracellularly by enzymatic or non-enzymatic reactions, is one of the specific substrates of 15-PGDH and can be further oxidized to the anti-inflammatory 14-oxoDHA, and in primary alveolar macrophages, 14-HDoHE itself significantly inhibits LPS-induced IL-6 mRNA expression in primary alveolar macrophages, which may be relevant to inflammatory diseases such as asthma.
Targets(IC50)	Endogenous Metabolite, Drug Metabolite

**Solubility Information**

Solubility	PBS (pH 7.2): < 1 mg/mL (insoluble), Sonication is recommended. DMF: Miscible Ethanol: Miscible 0.1 M Na <sub>2</sub> CO <sub>3</sub> : 1 mg/mL (2.9 mM), Sonication is recommended. DMSO: Miscible (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.9028 mL	14.5142 mL	29.0284 mL
5 mM	0.5806 mL	2.9028 mL	5.8057 mL
10 mM	0.2903 mL	1.4514 mL	2.9028 mL
50 mM	0.0581 mL	0.2903 mL	0.5806 mL

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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

Charles N Serhan, et al. Maresins: novel macrophage mediators with potent antiinflammatory and proresolving actions. J Exp Med. 2009 Jan 16;206(1):15-23.

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