

## 22-HDHA

## Chemical Properties

CAS No. : 90780-46-4

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

Molecular Weight: 344.49

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	22-HDHA is an oxidation product of docosahexaenoic acid (DHA).
Targets(IC50)	Others,Cytochromes P450
In vitro	In vitro, it is formed upon incubation of rat liver microsomes with DHA and NADPH and also by the human cytochrome P450 (CYP) isoform CYP4F3B in BTI-TN-5B1-4 microsomes. Serum levels of 22-HDHA increase following dietary DHA supplementation in humans.

## Solubility Information

Solubility	DMF: Miscible 0.1 M Na <sub>2</sub> CO <sub>3</sub> : 2 mg/mL (5.81 mM),Sonication is recommended. Ethanol: Miscible PBS (pH 7.2): 0.8 mg/mL (2.32 mM),Sonication is recommended. DMSO: 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	14.5142 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

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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