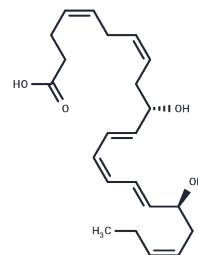


## 10(S),17(S)-DiHDHA

## Chemical Properties

CAS No. :	871826-47-0
Formula:	C22H32O4
Molecular Weight:	360.494
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	Protectin D1 (also known as neuroprotectin D1 when produced in neuronal tissues) is a DHA-derived dihydroxy fatty acid that exhibits potent protective and anti-inflammatory activities. 10(S),17(S)-DiHDHA is a DHA metabolite, also referred to as protectin DX (PDX). It is produced by an apparent double lipoxygenase (LO)-mediated reaction in murine peritonitis exudates, in suspensions of human leukocytes, or by soybean 15-LO incubated with DHA. It differs from protectin D1 with respect to the stereochemistry of the C-10 hydroxyl and the double bond configuration at the 13 and 15 positions. 10(S), 17(S)-DiHDHA blocks neutrophil infiltration in murine peritonitis by 20-25% at a dose of 1 ng/mouse. It also inhibits platelet activation by both impairing thromboxane (TX) synthesis and TX receptor activation.
Targets(IC50)	Others,Endogenous Metabolite

## Solubility Information

Solubility	DMF: Miscible PBS (pH 7.2): 0.5 mg/mL (1.39 mM),Sonication is recommended. DMSO: Miscible 0.1 M Na2CO3: 1 mg/mL (2.77 mM),Sonication is recommended. Ethanol: 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	2.774 mL	13.870 mL	27.740 mL
5 mM	0.5548 mL	2.774 mL	5.548 mL
10 mM	0.2774 mL	1.387 mL	2.774 mL
50 mM	0.0555 mL	0.2774 mL	0.5548 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.

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