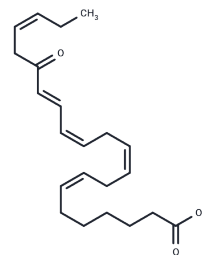


## 17-oxo-7(Z),10(Z),13(Z),15(E),19(Z)-Docosapentaenoic Acid

## Chemical Properties

CAS No. :	1233715-33-7
Formula:	C <sub>22</sub> H <sub>32</sub> O <sub>3</sub>
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	Docosapentaenoic acid (DPA) is a $\omega$ -3 fatty acid found in fish oils. 17-oxo-7(Z),10(Z),13(Z),15(E),19(Z)-docosapentaenoic acid is a metabolite of lipoxygenase-mediated oxidation of DPA that is produced endogenously by aspirin-enhanced COX-2 activity. It has been shown to activate Nrf2-dependent antioxidant gene expression, to act as a PPAR $\gamma$ agonist (EC <sub>50</sub> = ~200 nM), and to inhibit pro-inflammatory cytokine and nitric oxide production at biological concentration ranges (5-25 $\mu$ M).
Targets(IC50)	Others,NF- $\kappa$ B,PPAR

## Solubility Information

Solubility	DMSO: 10 mg/mL (29.03 mM),Sonication is recommended. Ethanol: 20 mg/mL (58.06 mM),Sonication is recommended. DMF: 15 mg/mL (43.54 mM),Sonication is recommended. ( $<$ 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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