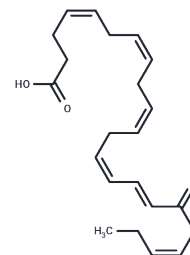


17-oxo-4(Z),7(Z),10(Z),13(Z),15(E),19(Z)-Docosahexaenoic Acid

Chemical Properties

CAS No. :	1233715-28-0
Formula:	C22H30O3
Molecular Weight:	342.479
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	17-oxo-4(Z),7(Z),10(Z),13(Z),15(E),19(Z)-Docosahexaenoic acid is a metabolite of lipoxygenase-mediated oxidation of DHA 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 γ agonist (EC ₅₀ = ~200 nM), and to inhibit pro-inflammatory cytokine and nitric oxide production at biological concentration ranges (5-25 μ M).
Targets(IC50)	Others, Nrf2, PPAR

Solubility Information

Solubility	Ethanol: 20 mg/mL (58.4 mM), Sonication is recommended. DMSO: 10 mg/mL (29.2 mM), Sonication is recommended. DMF: 15 mg/mL (43.8 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	2.9199 mL	14.5994 mL	29.1988 mL
5 mM	0.584 mL	2.9199 mL	5.8398 mL
10 mM	0.292 mL	1.4599 mL	2.9199 mL
50 mM	0.0584 mL	0.292 mL	0.584 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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