

HPO-DAEE

Chemical Properties

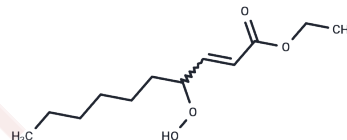
CAS No. : 1895934-61-8

Formula: C₁₂H₂₂O₄

Molecular Weight: 230.3

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	HPO-DAEE (4-Hydroperoxy-2-decenoic acid ethyl ester) performs multiple roles in cellular processes, primarily enhancing nuclear accumulation of Nrf2 and activating the antioxidant response element (ARE). It upregulates antioxidant genes such as HO-1 through Nrf2-ARE signaling and initiates the generation of reactive oxygen species. Additionally, HPO-DAEE inhibits histone deacetylase, promoting the expression of extracellular superoxide dismutase via histone acetylation. It offers protection against 6-hydroxydopamine-induced cell death by activating the Nrf2-ARE and eIF2 α -ATF4 pathways [1].
Targets(IC50)	Reactive Oxygen Species,HDAC,ROS

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3422 mL	21.7108 mL	43.4216 mL
5 mM	0.8684 mL	4.3422 mL	8.6843 mL
10 mM	0.4342 mL	2.1711 mL	4.3422 mL
50 mM	0.0868 mL	0.4342 mL	0.8684 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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Tel:781-999-4286

E_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481