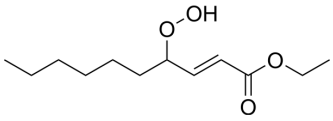
HPO-DAEE

Cat. No.:	HY-158205
CAS No.:	1895934-61-8
Molecular Formula:	$C_{12}H_{22}O_4$
Molecular Weight:	230.3
Target:	Reactive Oxygen Species; HDAC; SOD
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Cell Cycle/DNA Damage; Epigenetics



Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year

BIOLOGICAL ACTIVITY

Description

HPO-DAEE (4-Hydroperoxy-2-decenoic acid ethyl ester) elicits nuclear accumulation of Nrf2 and activated antioxidant response element (ARE). HPO-DAEE induces antioxidant genes upregulation (eg: HO-1) through Nrf2-ARE signaling. HPO-DAEE induces reactive oxygen species generation. HPO-DAEE also inhibits histone deacetylase and upregulate expression of extracellular superoxide dismutase via histone acetylation. HPO-DAEE protects against 6-hydroxydopamine-induced cell death via activation of Nrf2-ARE and eIF2α-ATF4 pathways[1].

REFERENCES

[1]. Inoue Y, et al. 4-Hydroperoxy-2-decenoic acid ethyl ester protects against 6-hydroxydopamine-induced cell death via activation of Nrf2-ARE and eIF2α-ATF4 pathways. Neurochem Int. 2018 Jan;112:288-296.

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