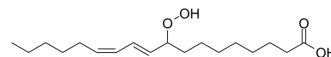


(±)9-HpODE

Cat. No.:	HY-118149A
CAS No.:	5502-91-0
Molecular Formula:	C ₁₈ H ₃₂ O ₄
Molecular Weight:	312.44
Target:	Bacterial; Fungal; Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(±)9-HpODE is a long chain lipid hydroperoxide, is a product of linoleic acid peroxidation. (±)9-HpODE can induce oxidation of intracellular glutathione (GSH). (±)9-HpODE also exhibits antimicrobial activity against various fungal and bacterial pathogens ^{[1][2]} .
In Vitro	(±)9-HpODE (1-25 μM; 0-30 min) induces oxidation of intracellular glutathione (GSH) and with no cytotoxicity in BEAS-2B cells ^[1] . (±)9-HpODE (25 μM; 0-20 min) induces GSH oxidation is independent of secondary products or H ₂ O ₂ ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Corteselli EM, et, al. Long chain lipid hydroperoxides increase the glutathione redox potential through glutathione peroxidase 4. *Biochim Biophys Acta Gen Subj*. 2019 May;1863(5):950-959.

[2]. Sucharitha A, et, al. Antimicrobial properties of chilli lipoxygenase products. *African Journal of Microbiology Research* Vol. 4(9), pp. 748-752, 4 May 2010.

Caution: Product has not been fully validated for medical applications. For research use only.

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