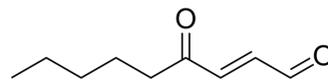


(E)-4-Oxo-2-nonenal

Cat. No.:	HY-114524
CAS No.:	103560-62-9
Molecular Formula:	C ₉ H ₁₄ O ₂
Molecular Weight:	154.21
Target:	TRP Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

(E)-4-Oxo-2-nonenal (4-ONE) is one of the major hemolytic decomposition products of lipid hydroperoxides. (E)-4-Oxo-2-nonenal is a major product of the FeII-mediated breakdown of lipid hydroperoxides. (E)-4-Oxo-2-nonenal is a potent transient receptor potential ankyrin 1 (TRPA1) agonist^{[1][2][3]}.

REFERENCES

- [1]. S H Lee, et al. Characterization of 4-oxo-2-nonenal as a novel product of lipid peroxidation. *Chem Res Toxicol.* 2000 Aug;13(8):698-702.
- [2]. Fumie Saito, et al. Reaction products of gamma-tocopherol with (E)-4-oxo-2-nonenal in acidic acetonitrile. *Biosci Biotechnol Biochem.* 2010;74(1):168-74.
- [3]. Rabea Graepel, et al. 4-oxo-2-nonenal (4-ONE): evidence of transient receptor potential ankyrin 1-dependent and -independent nociceptive and vasoactive responses in vivo. *J Pharmacol Exp Ther.* 2011 Apr;337(1):117-24.

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

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