

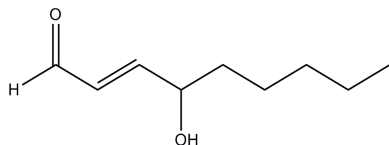
4-Hydroxynonenal

ALTERNATE NAME: 4-HNE

CATALOG #: 2083-1, 5

AMOUNT: 1 mg, 5mg

STRUCTURE:



MOLECULAR FORMULA: C₉H₁₆O₂

MOLECULAR WEIGHT: 156.22

CAS NUMBER: 75899-68-2

APPEARANCE: Liquid (a solution in ethanol)

PURITY: ≥98%

STORAGE: Store at -80 °C.

DESCRIPTION: 4-hydroxynonenal is a lipid peroxidation product derived from oxidized ω-6 polyunsaturated fatty acids such as arachidonic acid. 4-HNE is widely used as a marker of lipid peroxidation. It exhibits various biological activities such as cytotoxicity, growth inhibiting activity, genotoxicity, and chemotactic activity. It also inhibits Sirtuin 3 (SIRT3) via thiol-specific modification.

REFERENCE: Fritz, K.S., *et al.* (2011). *Chem. Res. Toxicol.* **16**, 651-662.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

- Apicidin (**Cat. No. 1601-1**)
- CI-994 (**Cat. No. 1742-10, 50**)
- CUDC-101 (**Cat. No. 1966-5, 25**)
- DiscoveryPak™ HDAC Inhibitor Set (**Cat. No. K851-6**)
- Lipid Peroxidation (MDA) Assay Kit (**Cat. No. K739-100**)
- M344 (**Cat. No. 1701-1**)
- MS-275 (Entinostat, MS-275) (**Cat. No. 1590-1,5**)
- Panobinostat (LBH589) (**Cat. No. 1612-1,5**)
- SAHA (**Cat. No. 1604-1**)
- Sirtinol (**Cat. No. 2062-1, 5**)
- Sodium 4-phenylbutyrate (**Cat. No. 1608-100,1000**)
- Sodium Butyrate (**Cat. No. 1609-1000**)
- Splitomycin (**Cat. No. 1610-5**)
- Suramin Hexasodium Salt (**Cat. No. 1874-50, 250**)
- Trichostatin A (**Cat. No. 1606-1**)
- Tubastatin A (**Cat. No. 1724-1, 5**)
- Valproic Acid, Sodium Salt (**Cat. No. 1647-200**)

FOR RESEARCH USE ONLY! Not to be used in humans.