

## 4-hydroxy Hexenal

## Chemical Properties

CAS No. : 17427-21-3

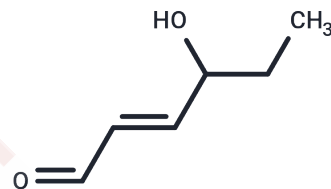
Formula: C<sub>6</sub>H<sub>10</sub>O<sub>2</sub>

Molecular Weight: 114.14

Storage: Store at low temperature, Keep away from direct sunlight

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	4-Hydroxy hexenal (4-HHE) are toxic aldehydes that are enriched in flavored gravies and cooking oils with storage time and elevated temperatures.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 30 mg/mL (262.84 mM), Sonication is recommended. DMF: 30 mg/mL (262.84 mM), Sonication is recommended. Ethanol: 30 mg/mL (262.84 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.7612 mL	43.8059 mL	87.6117 mL
5 mM	1.7522 mL	8.7612 mL	17.5223 mL
10 mM	0.8761 mL	4.3806 mL	8.7612 mL
50 mM	0.1752 mL	0.8761 mL	1.7522 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.

Reference

van Kuijk, et al. 4-Hydroxyhexenal: A lipid peroxidation product derived from oxidized docosahexaenoic acid. Biochim. Biophys. Acta 1043, 116-118 (1990).

Anan Y, et al. Molecular and structural basis of anti-DNA antibody specificity for pyrroled proteins. Commun Biol. 2024 Feb 3;7(1):149.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481