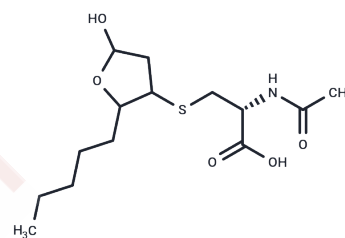


## 4-hydroxy Nonenal Mercapturic Acid

## Chemical Properties

CAS No. : 146764-24-1  
 Formula: C<sub>14</sub>H<sub>25</sub>NO<sub>5</sub>  
 Molecular Weight: 319.42  
 Storage: 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	Peroxidation of common $\omega$ -6 polyunsaturated fatty acids (PUFAs) such as linoleic acid, DGLA, and arachidonic acid can give rise to 4-HNE. 4-HNE is cleared rapidly from the plasma and undergoes enterohepatic circulation as a glutathione conjugate in the rat. About two thirds of an administered dose of 4-HNE is excreted within 48 hours in the urine, primarily in the form of mercapturic acid conjugates. The C-1 aldehyde of 4-HNE is reduced to an alcohol in about half of these metabolites. The remainder are C-1 aldehydes or have been oxidized to C-1 carboxylic acids. These aldehydes and carboxylic acids can also form $\gamma$ -lactols and $\gamma$ -lactones, respectively, producing at least 4 or 5 end urinary metabolites of 4-HNE in vivo.
Targets(IC50)	Others,Endogenous Metabolite

## Solubility Information

Solubility	DMF: >50 mg/mL (per Ramki),Sonication is recommended. Ethanol: >50 mg/mL (per Ramki),Sonication is recommended. PBS (pH 7.2): >100 $\mu$ g/mL (per Ramki),Sonication is recommended. DMSO: >50 mg/mL (per Ramki),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.1307 mL	15.6534 mL	31.3067 mL
5 mM	0.6261 mL	3.1307 mL	6.2613 mL
10 mM	0.3131 mL	1.5653 mL	3.1307 mL
50 mM	0.0626 mL	0.3131 mL	0.6261 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.

**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