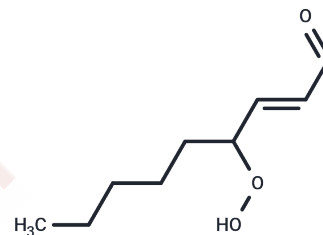


## 4-hydroperoxy 2-Nonenal

## Chemical Properties

CAS No. :	7439-43-2
Formula:	C <sub>9</sub> H <sub>16</sub> O <sub>3</sub>
Molecular Weight:	172.224
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	4-hydroxy Nonenal is a lipid peroxidation product derived from oxidized $\omega$ -6 polyunsaturated fatty acids, such as linoleic acid and arachidonic acid, that is widely used as a marker of oxidative stress. 4-HNE exhibits various biological activities such as cytotoxicity, growth inhibiting activity, genotoxicity, and chemotactic activity. 4-hydroperoxy 2-Nonenal is the immediate precursor of 4-HNE formed from the cleavage of $\omega$ -6 hydroperoxides. Analogous reactions are expected to occur with hydroperoxides from other $\omega$ -6 fatty acids, particularly arachidonic acid.
Targets(IC50)	Others, Reactive Oxygen Species

## Solubility Information

Solubility	Ethanol:PBS (pH 7.2)(1:6): 0.5 mg/mL (2.9 mM),Sonication is recommended. DMF: 30 mg/mL (174.19 mM),Sonication is recommended. Ethanol: 30 mg/mL (174.19 mM),Sonication is recommended. DMSO: 30 mg/mL (174.19 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.8065 mL	29.0326 mL	58.0653 mL
5 mM	1.1613 mL	5.8065 mL	11.6131 mL
10 mM	0.5807 mL	2.9033 mL	5.8065 mL
50 mM	0.1161 mL	0.5807 mL	1.1613 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.

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