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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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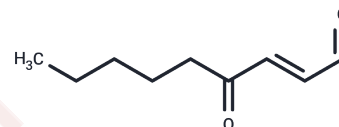
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4-oxo-2-Nonenal

Chemical Properties

CAS No. :	103560-62-9
Formula:	C ₉ H ₁₄ O ₂
Molecular Weight:	154.209
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	4-hydroxy Nonenal is a lipid peroxidation product derived from oxidized ω -6 polyunsaturated fatty acids such as arachidonic acid and linoleic acid. [1] [2] It exhibits various biological activities such as cytotoxicity, growth inhibiting activity, genotoxicity, and chemotactic activity and has been widely used as a marker of lipid peroxidation.[1] [2][3] 4-oxo-2-Nonenal is a more recently identified product of lipid peroxidation.[4][5][6] It actively modifies histidine and lysine residues on proteins and causes protein cross-linking. [7][8] 4-oxo-2-Nonenal also modifies 2'-deoxyguanosine, further implicating lipid peroxidation in mutagenesis and carcinogenesis.[4]
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Solubility Information

Solubility	DMF: 50 mg/mL DMSO: 50 mg/mL Ethanol: 50 mg/mL PBS (pH 7.2): 0.5 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.4847 mL	32.4233 mL	64.8466 mL
5 mM	1.2969 mL	6.4847 mL	12.9693 mL
10 mM	0.6485 mL	3.2423 mL	6.4847 mL
50 mM	0.1297 mL	0.6485 mL	1.2969 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.

Reference

Pryor, W.A., and Porter, N.A. Suggested mechanisms for the production of 4-hydroxy-2-nonenal from the autoxidation of polyunsaturated fatty acids. *Free Radical Biology & Medicine* 8, 541-543 (1990).
Esterbauer,

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