Data Sheet (Cat.No.T35455)



N-Nitrosodiethylamine

Chemical Properties

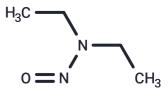
CAS No.: 55-18-5

Formula: C4H10N2O

Molecular Weight: 102.14

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	N-Nitrosodiethylamine (NDEA) is a potent hepatocarcinogenic dialkylnitrosoamine. N-Nitrosodiethylamine is mainly present in water, tobacco smoke, cheddar cheese, cured fried meals and many alcoholic beverages. N-Nitrosodiethylamine is responsible for th changes in the nuclear enzymes associated with DNA repair/replication. N-Nitrosodiethylamine results in various tumors in all animal species. The main target organs are the liver, nasal cavity, trachea, lung and esophagus.
Targets(IC50)	DNA/RNA Synthesis
In vivo	Mice with N-Nitrosodiethylamine (25mg/kg) intraperitonially resulted in fatty liver disease leading to progress of cancer disease.

Solubility Information

Solubility	H2O: 98 mg/mL (959.47 mM), Sonication is recommended.	
	DMSO: 50 mg/mL (489.52 mM), Sonication is recommended.	
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	()

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.7905 mL	48.9524 mL	97.9048 mL
5 mM	1.9581 mL	9.7905 mL	19.581 mL
10 mM	0.979 mL	4.8952 mL	9.7905 mL
50 mM	0.1958 mL	0.979 mL	1.9581 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

Cahyani DM, Miatmoko A, Hariawan BS, Purwantari KE, Sari R. N-nitrosodiethylamine induces inflammation of liver in mice. J Basic Clin Physiol Pharmacol. 2021 Jun 25;32(4):505-510. doi: 10.1515/jbcpp-2020-0475. PMID:

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