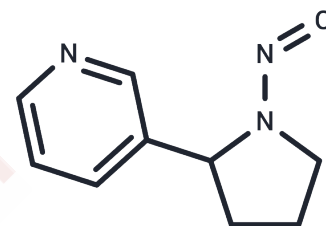


N'-Nitrosornicotine

Chemical Properties

CAS No. :	80508-23-2
Formula:	C ₉ H ₁₁ N ₃ O
Molecular Weight:	177.207
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	N'-Nitrosornicotine is a tobacco-specific N-nitrosamine and carcinogen that has been found in unburned tobacco and cigarette smoke. It induces the formation of DNA adducts in isolated rat nasal mucosa and esophagus. N'-Nitrosornicotine induces tumor formation in rat esophagus and nasal cavity, mouse lung, forestomach, and trachea, and hamster trachea and forebrain. Urinary levels of N'-nitrosornicotine are positively correlated with the risk of esophageal cancer in smokers. ²
Targets(IC50)	Others, Drug Metabolite

Solubility Information

Solubility	Chloroform: Slightly soluble Methanol: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.643 mL	28.2151 mL	56.4302 mL
5 mM	1.1286 mL	5.643 mL	11.286 mL
10 mM	0.5643 mL	2.8215 mL	5.643 mL
50 mM	0.1129 mL	0.5643 mL	1.1286 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

Hecht, S.S. Biochemistry, biology, and carcinogenicity of tobacco-specific N-nitrosamines *Chem. Res. Toxicol.* 11(6) 559-603 (1998)

Yuan, J.-M., Knezevich, A.D., Wang, R., et al. Urinary levels of the tobacco-specific carcinogen N'-nitrosonornicotine and its glucuronide are strongly associated with esophageal cancer risk in smokers *Carcinogenesis* 32(9) 1366-1371 (2011)

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