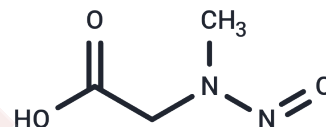


N-Nitroso Sarcosine

Chemical Properties

CAS No. :	13256-22-9
Formula:	C ₃ H ₆ N ₂ O ₃
Molecular Weight:	118.0913
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-Nitroso sarcosine is a carcinogen and nitrosation product of sarcosine that has been found in cured meat products. ^{1,2}
Targets(IC50)	Others
In vivo	In vivo, N-nitroso sarcosine (225 mg/kg) induces the formation of metastatic liver carcinomas in mice. ²

Solubility Information

Solubility	DMSO: 10 mg/mL (84.68 mM), Sonication is recommended. DMF: 15 mg/mL (127.02 mM), Sonication is recommended. Ethanol: 30 mg/mL (254.04 mM), Sonication is recommended. PBS (pH 7.2): 5 mg/mL (42.34 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	8.4681 mL	42.3406 mL	84.6812 mL
5 mM	1.6936 mL	8.4681 mL	16.9362 mL
10 mM	0.8468 mL	4.2341 mL	8.4681 mL
50 mM	0.1694 mL	0.8468 mL	1.6936 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

Janzowski, C., Eisenbrand, G., and Preussmann, R. Occurrence of N-nitrosamino acids in cured meat products and their effect on formation of N-nitrosamines during heating *Food Cosmet. Toxicol.* 16(4)343-348(1978)

Wogan, G.N., Paglialunga, S., Archer, M.C., et al. Carcinogenicity of nitrosation products of ephedrine, sarcosine, folic acid, and creatinine *Cancer Res.* 35(8)1981-1984(1975)

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