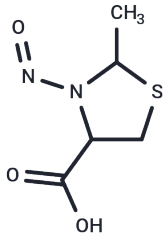
Data Sheet (Cat.No.T38437)

TargetMol

NMTCA

Chemical Properties



CAS No. : 103659-08-1

Formula: C5H8N2O3S

Molecular Weight: 176.19

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	NMTCA (NMTPRO) is a sulfur-containing N-nitrosamino acid used as an endogenous nitrosation indicator in gas chromatography-thermal energy analysis (GC-TEA).
Targets(IC50)	Others,Endogenous Metabolite
In vitro	Smoking significantly influences the concentrations of NTCA and NMTCA in human urine [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.6757 mL	28.3785 mL	56.7569 mL
5 mM	1.1351 mL	5.6757 mL	11.3514 mL
10 mM	0.5676 mL	2.8378 mL	5.6757 mL
50 mM	0.1135 mL	0.5676 mL	1.1351 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

Ohshima H, et al. Presence in human urine of new sulfur-containing N-nitrosamino acids: N-nitrosothiazolidine 4-carboxylic acid and N-nitroso 2-methylthiazolidine 4-carboxylic acid. IARC Sci Publ. 1984;(57):77-85.

Tsuda M, et al. Increase in the levels of N-nitrosoproline, N-nitrosothioproline and N-nitroso-2-methylthioproline in human urine by cigarette smoking. Cancer Lett. 1986;30(2):117-124.

Tsuda M, et al. Effect of cigarette smoking and dietary factors on the amount of N-nitrosothiazolidine 4-carboxylic acid and N-nitroso-2-methyl-thiazolidine 4-carboxylic acid in human urine. IARC Sci Publ. 1987;(84):446-450.

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