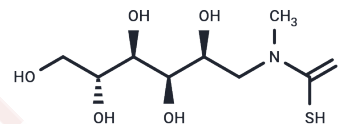


## Norathiol

## Chemical Properties

CAS No. :	94161-07-6
Formula:	C <sub>8</sub> H <sub>17</sub> NO <sub>5</sub> S <sub>2</sub>
Molecular Weight:	271.35
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	Norathiol (N-methyl-N-dithiocarboxyglucamine) is an antidote for cadmium poisoning and a metal chelator that promotes the excretion of <sup>109</sup> Cd and can be used in the treatment of cadmium poisoning.
Targets(IC50)	Endogenous Metabolite
In vivo	In mice injected with CdCl <sub>2</sub> , Norathiol (684, 1368, and 2736 mg/kg; intraperitoneal injection; administered at doses of 684, 1368, and 2736 mg/kg, three times daily) dose-dependently increased fecal cadmium excretion. At a dose of 2736 mg/kg, it caused nearly 30% of the administered cadmium to be excreted in the feces over a 3-day period [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6853 mL	18.4264 mL	36.8528 mL
5 mM	0.7371 mL	3.6853 mL	7.3706 mL
10 mM	0.3685 mL	1.8426 mL	3.6853 mL
50 mM	0.0737 mL	0.3685 mL	0.7371 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

Gale GR, et al. Effects of sodium N-methyl-N-dithiocarboxyglucamine on cadmium distribution and excretion. *Life Sci.* 1984 Dec 17;35(25):2571-8.

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Shinobu LA, et al. Sodium N-methyl-D-glucamine dithiocarbamate and cadmium intoxication. *Acta Pharmacol Toxicol (Copenh).* 1984 Mar;54(3):189-94.

Lu C, et al. Redox cycling of iron complexes of N-(dithiocarboxy)sarcosine and N-methyl-D-glucamine dithiocarbamate. *Free Radic Biol Med.* 2005 Dec 15;39(12):1581-90.

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