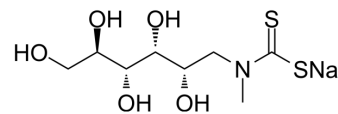


N-methyl-N-dithiocarboxyglucamine sodium

Cat. No.:	HY-111054A		
CAS No.:	91840-27-6		
Molecular Formula:	C ₈ H ₁₆ NNaO ₅ S ₂		
Molecular Weight:	293.34		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (213.06 mM; ultrasonic and warming and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.4090 mL	17.0451 mL	34.0901 mL
	5 mM	0.6818 mL	3.4090 mL	6.8180 mL
	10 mM	0.3409 mL	1.7045 mL	3.4090 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

N-methyl-N-dithiocarboxyglucamine (MDCG) sodium mobilizes and promotes excretion of metallothionein-bound ¹⁰⁹Cd in mouse model. N-methyl-N-dithiocarboxyglucamine significantly lowers the Cd content of both the liver and kidney, which is organs most susceptible to Cd-induced toxicity^[1].

In Vivo

N-methyl-N-dithiocarboxyglucamine (1.1 mM/kg; ip; single dose) could significantly induce the excretion of Cd from feces. Increasing the number of treatments to 7 times per week, N-methyl-N-dithiocarboxyglucamine results in a more than 50% reduction in systemic Cd load in mice^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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