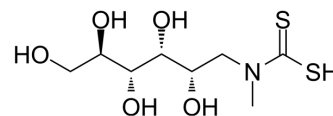


N-methyl-N-dithiocarboxyglucamine

Cat. No.:	HY-111054
CAS No.:	94161-07-6
Molecular Formula:	C ₈ H ₁₇ NO ₅ S ₂
Molecular Weight:	271.35
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	N-methyl-N-dithiocarboxyglucamine (MDCG) mobilizes and promotes excretion of metallothione-bound ¹⁰⁹ Cd. N-methyl-N-dithiocarboxyglucamine shows effects on acute and chronic Cd intoxication ^[1] .	
In Vivo	<p>N-methyl-N-dithiocarboxyglucamine (684-2736 mg/kg; i.p., three daily injection) effectively promotes fecal Cd excretion over a 3-day period^[1].</p> <p>N-methyl-N-dithiocarboxyglucamine (2736 mg/kg; i.p., three times a week) reduces the kidney and liver Cd levels^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
	Animal Model:	Mice with CdCl ₂ injection ^[1]
	Dosage:	684, 1368 and 2736 mg/kg
	Administration:	Intraperitoneal injection; 684, 1368 and 2736 mg/kg, three daily injection
	Result:	Dose-dependently increased fecal Cd excretion and caused a fecal Cd excretion of almost 30% of the administered Cd over a 3-day period at a dose of 2736 mg/kg.

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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