



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Guanidine

Chemical Properties

CAS No. : 113-00-8

Formula: CH₅N₃

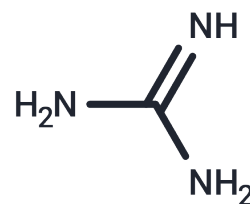
Molecular Weight: 59.07

Appearance: no data available

Storage:

keep away from direct sunlight, store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Guanidine is a strong chaotropic agent and a strong denaturant of proteins.
Targets(IC ₅₀)	Others
In vitro	Guanidine at low concentrations refolds acid-unfolded apomyoglobin and cytochrome c, stabilizing the molten globule state, i.e. a compact denatured state with a significant amount of secondary structure, but substantially disordered tertiary structure. Guanidine (> 1 M) causes co-operative unfolding of the molten globule state. [1] Guanidine at millimolar concentrations, is able to causes efficient loss of the normally stable [PSI ⁺] element from yeast cells. 5 mM Guanidine in growth media cures [PSI ⁺] and other prions of yeast. 5 mM Guanidine significantly reduces Hsp104-mediated basal and acquired thermotolerance by 30-fold and 50 fold. [2]
In vivo	Two injections of Guanidine at 145 mg/kg per injection is significantly reducing in the death rate of infant mice infected with ten LD ₅₀ of coxsackievirus A16 is observed when they are treated 58 h after infection. [3]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	16.9291 mL	84.6453 mL	169.2907 mL
5 mM	3.3858 mL	16.9291 mL	33.8581 mL
10 mM	1.6929 mL	8.4645 mL	16.9291 mL
50 mM	0.3386 mL	1.6929 mL	3.3858 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.

Reference

Hagihara Y, et al. Guanidine hydrochloride-induced folding of proteins. J Mol Biol. 1993 May 20;231(2):180-4.

Jung G, et al. Guanidine hydrochloride inhibits Hsp104 activity in vivo: a possible explanation for its effect in curing

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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