

Guanidine (hydrochloride)

Catalog No: tcsc2056



Available Sizes

Size: 10g

Size: 50g



Specifications

CAS No:

50-01-1

Formula:

CH_6ClN_3

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

H₂O : ≥ 50 mg/mL (523.40 mM); DMSO : ≥ 100 mg/mL (1046.79 mM)

Alternative Names:

Guanidinium chloride;Aminoformamidinium Hydrochloride

Observed Molecular Weight:

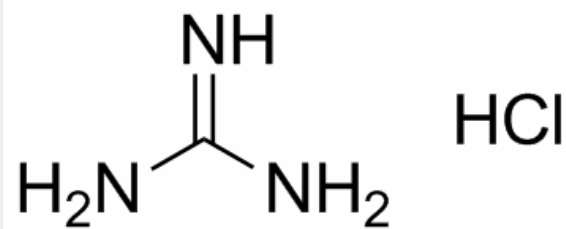
95.53

Product Description

Guanidine HCl, the crystalline compound of strong alkalinity formed by the oxidation of guanine, is a normal product of protein metabolism and a protein denaturant.

Target: Others

Guanidine HCl is the most popular protein denaturant. Analysis of unfolding transitions by Guanidine HCl provides several important parameters regarding the mechanism of conformational stability of proteins. Guanidine HCl at low concentrations refolds acid-unfolds apomyoglobin and cytochrome c, stabilizing the molten globule state. Guanidine HCl (> 1 M) causes co-operative unfolding of the molten globule state [1]. Guanidine HCl at millimolar concentrations, is able to causes efficient loss of the normally stable [PSI⁺] element from yeast cells. 5 mM Guanidine HCl in growth media cures [PSI⁺] and other prions of yeast. 5 mM Guanidine HCl significantly reduces Hsp104-mediated basal and acquired thermotolerance by 30-fold and 50 fold, respectively. Guanidine HCl also reduces the ability of Hsp104 to restore activity of thermally denatured luciferase [2].



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