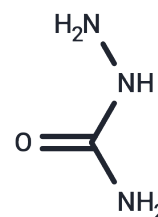


## Semicarbazide hydrochloride

## Chemical Properties

CAS No. :	563-41-7
Formula:	CH <sub>6</sub> ClN <sub>3</sub> O
Molecular Weight:	111.53
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

HCl



## Biological Description

Description	Semicarbazide hydrochloride is a urea derivative that binds to copper or iron in cells to produce antiviral, anti-infective and anti-tumor effects.
Targets(IC50)	Antibiotic, Monoamine Oxidase

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (246.57 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (17.93 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.9662 mL	44.831 mL	89.662 mL
5 mM	1.7932 mL	8.9662 mL	17.9324 mL
10 mM	0.8966 mL	4.4831 mL	8.9662 mL
50 mM	0.1793 mL	0.8966 mL	1.7932 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

Takahashi M, et al. Toxicol Pathol. 2010 Jun;38(4):598-605.

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