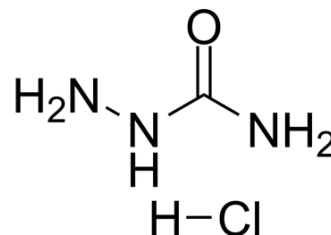


## Semicarbazide hydrochloride

<b>Cat. No.:</b>	HY-Y0470
<b>CAS No.:</b>	563-41-7
<b>Molecular Formula:</b>	CH <sub>6</sub> ClN <sub>3</sub> O
<b>Molecular Weight:</b>	111.53
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 100 mg/mL (896.62 mM; Need ultrasonic)					
	DMSO : 100 mg/mL (896.62 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		8.9662 mL	44.8310 mL	89.6620 mL
<b>5 mM</b>			1.7932 mL	8.9662 mL	17.9324 mL	
<b>10 mM</b>		0.8966 mL	4.4831 mL	8.9662 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (22.42 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (22.42 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (22.42 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Semicarbazide hydrochloride, a derivative of urea, possesses antiviral, antiinfective and antineoplastic through binding to copper or iron in cells <sup>[1]</sup> .
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### REFERENCES

[1]. Adam Becalski, et al. Semicarbazide Formation in Azodicarbonamide-Treated Flour: A Model Study. J Agric Food Chem. 2004 Sep 8;52(18):5730-4.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA