

Hydroxylamine hydrochloride

Cat. No.:	HY-Y0882
CAS No.:	5470-11-1
Molecular Formula:	ClH ₄ NO
Molecular Weight:	69.49
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (1439.06 mM; Need ultrasonic)																													
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Concentration</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td></td> <td>14.3906 mL</td> <td>71.9528 mL</td> <td>143.9056 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>2.8781 mL</td> <td>14.3906 mL</td> <td>28.7811 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>1.4391 mL</td> <td>7.1953 mL</td> <td>14.3906 mL</td> </tr> </tbody> </table>	Solvent	Mass	1 mg	5 mg	10 mg	Concentration					1 mM		14.3906 mL	71.9528 mL	143.9056 mL	5 mM		2.8781 mL	14.3906 mL	28.7811 mL	10 mM		1.4391 mL	7.1953 mL	14.3906 mL			
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Please refer to the solubility information to select the appropriate solvent.																														
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (35.98 mM); Clear solution																													
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (35.98 mM); Clear solution																													
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (35.98 mM); Clear solution																													

BIOLOGICAL ACTIVITY

Description	Hydroxylamine hydrochloride is a selective monoamine oxidase (MAO) inhibitor used for inhibiting of platelet aggregation. Hydroxylamine hydrochloride is an intermediate of organic synthesis ^[1] .
In Vitro	Hydroxylamine hydrochloride (1 mM) inhibits the activity of MAO for 99.8% ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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