

Hydroxylamine hydrochloride

Chemical Properties

CAS No. : 5470-11-1

Formula: ClH4NO

Molecular Weight: 69.49

HCl

HO — NH₂

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

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Hydroxylamine hydrochloride(Hydroxylammonium chloride) is a selective and potent monoamine oxidase (MAO) inhibitor with inhibitory effects on platelet aggregation. Hydroxylamine hydrochloride is an intermediate in organic synthesis and can be used to synthesize other active compounds.
Targets(IC50)	MAO,Monoamine Oxidase
In vitro	For 99.8% inhibition of MAO activity, hydroxylamine hydrochloride is used at a concentration of 1 mM[1].

Solubility Information

Solubility	DMSO: 262.5 mg/mL (3777.52 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: 2.5 mg/mL (35.98 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	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
50 mM	0.2878 mL	1.4391 mL	2.8781 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

Roh JH, et al. Purification, characterization, and crystallization of monoamine oxidase from Escherichia coli K-12. Biosci Biotechnol Biochem. 1994 Sep;58(9):1652-6.

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