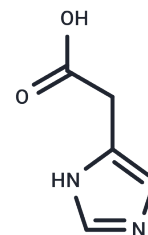


## Imidazoleacetic acid hydrochloride

## Chemical Properties

CAS No. :	3251-69-2
Formula:	C <sub>5</sub> H <sub>7</sub> ClN <sub>2</sub> O <sub>2</sub>
Molecular Weight:	162.57
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	Imidazoleacetic acid hydrochloride (I4AA) is an imidazole derivative with potential antituberculosis properties. It also used in the preparation of acyl guanidine inhibitors of $\beta$ -secretase.
Targets(IC50)	GABA Receptor,Endogenous Metabolite,Antibiotic

## Solubility Information

Solubility	DMSO: 55 mg/mL (338.32 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 (12.3 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	6.1512 mL	30.756 mL	61.512 mL
5 mM	1.2302 mL	6.1512 mL	12.3024 mL
10 mM	0.6151 mL	3.0756 mL	6.1512 mL
50 mM	0.123 mL	0.6151 mL	1.2302 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

Abdel Kader MM, et al. Antituberculous effect of some imidazole derivatives. Kekkaku. 1978 Oct;53(10):499-502.  
Gerritz SW, et al. Acyl guanidine inhibitors of  $\beta$ -secretase (BACE-1): optimization of a micromolar hit to a nanomolar lead via iterative solid- and solution-phase library synthesis. J Med Chem. 2012 Nov 8;55(21):9208-23.

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