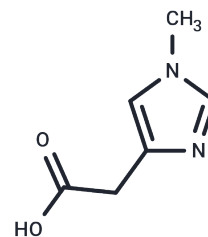


## 1-Methyl-4-imidazoleacetic Acid (hydrochloride)

## Chemical Properties

CAS No. :	35454-39-8
Formula:	C <sub>6</sub> H <sub>9</sub> ClN <sub>2</sub> O <sub>2</sub>
Molecular Weight:	176.601
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

HCl



## Biological Description

Description	1-Methyl-4-imidazoleacetic acid (MIMA) is a stable metabolite of histamine that is produced by the oxidation of the primary metabolite, N-methylhistamine. Urinary levels of MIMA are commonly measured to evaluate histamine secretion, particularly in the context of systemic mastocytosis.
Targets(IC50)	Others,Histamine Receptor

## Solubility Information

Solubility	Ethanol: 2 mg/mL (11.32 mM),Sonication is recommended. DMF: 2 mg/mL (11.32 mM),Sonication is recommended. PBS (pH 7.2): 10 mg/mL (56.62 mM),Sonication is recommended. DMSO: 10 mg/mL (56.62 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: 1 mg/mL (5.66 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	5.6625 mL	28.3126 mL	56.6251 mL
5 mM	1.1325 mL	5.6625 mL	11.325 mL
10 mM	0.5663 mL	2.8313 mL	5.6625 mL
50 mM	0.1133 mL	0.5663 mL	1.1325 mL

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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.

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