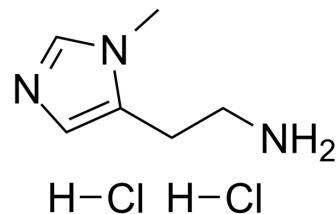


## 3-Methylhistamine dihydrochloride

Cat. No.:	HY-113412A
CAS No.:	36475-47-5
Molecular Formula:	C <sub>6</sub> H <sub>13</sub> Cl <sub>2</sub> N <sub>3</sub>
Molecular Weight:	198.09
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
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 : 12.5 mg/mL (63.10 mM); ultrasonic and warming and adjust pH to 10 with NaOH and heat to 60°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	5.0482 mL	25.2411 mL	50.4821 mL
		5 mM	1.0096 mL	5.0482 mL	10.0964 mL
		10 mM	0.5048 mL	2.5241 mL	5.0482 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 1.25 mg/mL (6.31 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (6.31 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 1.25 mg/mL (6.31 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

Description	3-Methylhistamine dihydrochloride is a degradation product of histamine. 3-Methylhistamine dihydrochloride, a methylated product of histamine, is associated with immune response and shows upregulation in the vaccinated mice <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	Human Endogenous Metabolite

### REFERENCES

[1]. Schayer RW, et al. Methyl derivatives of histamine; interaction with histamine metabolism. Agents Actions. 1975;5(3):231-235.

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[2]. Gill EL, et al. Ultrahigh-Performance Liquid Chromatography-High-Resolution Mass Spectrometry Metabolomics and Lipidomics Study of Stool from Transgenic Parkinson's Disease Mice Following Immunotherapy. J Proteome Res. 2020;19(1):424-431.

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

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