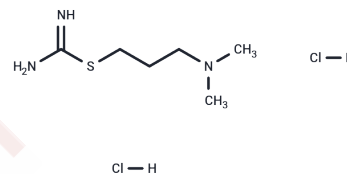


## Dimaprit dihydrochloride

## Chemical Properties

CAS No. :	23256-33-9
Formula:	C <sub>6</sub> H <sub>15</sub> N <sub>3</sub> S·2HCl
Molecular Weight:	234.19
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	Dimaprit dihydrochloride, a selective histamine H <sub>2</sub> receptor agonist, inhibits nNOS with an IC <sub>50</sub> of 49 μM and can stimulate gastric acid secretion.
Targets(IC <sub>50</sub> )	NOS, NO Synthase, Histamine Receptor

## Solubility Information

Solubility	DMSO: 55 mg/mL (234.85 mM), Sonication is recommended. H <sub>2</sub> O: < 23.42 mg/mL, 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 (8.54 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	4.270 mL	21.3502 mL	42.7004 mL
5 mM	0.854 mL	4.270 mL	8.5401 mL
10 mM	0.427 mL	2.135 mL	4.270 mL
50 mM	0.0854 mL	0.427 mL	0.854 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

Parsons ME, et, al. Dimaprit -(S-[3-(N,N-dimethylamino)propyl]isothiourea) - a highly specific histamine H2 - receptor agonist. Part 1. Pharmacology. Agents Actions. 1977 Mar; 7(1): 31-7.

Paquay JB, et, al. Nitric oxide synthase inhibition by dimaprit and dimaprit analogues. Br J Pharmacol. 1999 May; 127(2): 331-4.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481