

## Milacemide

## Chemical Properties

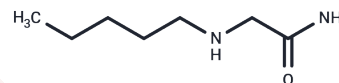
CAS No. : 76990-56-2

Formula: C<sub>7</sub>H<sub>16</sub>N<sub>2</sub>O

Molecular Weight: 144.21

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	Milacemide is a glycine prodrug and MAO-B inhibitor. Milacemide has been studied for its effects on human memory and as a potential treatment for the symptoms of Alzheimer's disease.
Targets(IC50)	MAO, Monoamine Oxidase
In vivo	Milacemide is a glycine pro-drug which inhibit strychnine-allodynia without affecting normal nociception in the rat.

## Solubility Information

Solubility	DMSO: 50 mg/mL (346.72 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.9343 mL	34.6717 mL	69.3433 mL
5 mM	1.3869 mL	6.9343 mL	13.8687 mL
10 mM	0.6934 mL	3.4672 mL	6.9343 mL
50 mM	0.1387 mL	0.6934 mL	1.3869 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

Khandwala H, Loomis CW. Milacemide, a glycine pro-drug, inhibits strychnine-allodynia without affecting normal nociception in the rat. *Pain*. 1998 Jul;77(1):87-95.

Quartermain D, Nuygen T, Sheu J, Herting RL. Milacemide enhances memory storage and alleviates spontaneous forgetting in mice. *Pharmacol Biochem Behav*. 1991 May;39(1):31-5.

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