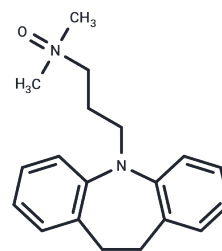


## Imipramine N-oxide

## Chemical Properties

CAS No. :	6829-98-7
Formula:	C <sub>19</sub> H <sub>24</sub> N <sub>2</sub> O
Molecular Weight:	296.41
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Imipramine N-oxide is a tricyclic antidepressant (TCA) and imipramine analogue used to treat depression. Imipramine N-oxide can be reduced to imipramine in vitro within rat tissue homogenates or blood.
Targets(IC50)	5-HT Receptor, Norepinephrine, Drug Metabolite

## Solubility Information

Solubility	DMSO: 80 mg/mL (269.9 mM) ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (11.13 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	3.3737 mL	16.8685 mL	33.7371 mL
5 mM	0.6747 mL	3.3737 mL	6.7474 mL
10 mM	0.3374 mL	1.6869 mL	3.3737 mL
50 mM	0.0675 mL	0.3374 mL	0.6747 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

Bickel MH, et al. Metabolic interconversions between imipramine, its N-oxide, and its desmethyl derivative in rat tissues in vitro. *Biochem Biophys Res Commun*. 1968;33(6):1012-1018.

Fayez R, et al. Imipramine. [Updated 2021 Nov 20]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2022 Jan-.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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