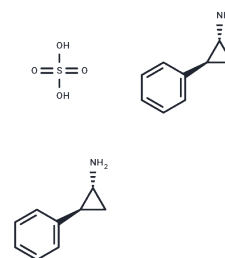


## Tranlycypromine hemisulfate

## Chemical Properties

CAS No. :	13492-01-8
Formula:	C <sub>9</sub> H <sub>11</sub> N 1/2H <sub>2</sub> SO <sub>4</sub>
Molecular Weight:	182.23
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Tranlycypromine hemisulfate (Tranlycypromine Sulfate) is an inhibitor of monoamine oxidase (MAO) and lysine-specific demethylase 1 (LSD1) with a rapid onset of activity.
Targets(IC50)	Histone Demethylase, MAO, Monoamine Oxidase
In vivo	Tranlycypromine-induced transcriptional and epigenetic regulation modulated RGC survival via the promotion of p38 MAPK $\gamma$ activity. Therefore, pharmacologic treatments that suppress LSD1 activity may be a novel therapeutic strategy that can be used to treat neurodegenerative diseases[1].
Animal Research	The authors evaluated whether tranlycypromine contributes to neuronal survival following stress-induced damage using primary cultured rat RGCs and in vivo N-methyl-D-aspartate (NMDA)-induced excitotoxicity. Additionally, the molecules associated with tranlycypromine treatment were assessed by microarray and immunoblot analysis[1].

## Solubility Information

Solubility	H <sub>2</sub> O: 10 mg/mL (54.88 mM), Sonication is recommended. DMSO: 3.33 mg/mL (18.27 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	5.4876 mL	27.4379 mL	54.8757 mL
5 mM	1.0975 mL	5.4876 mL	10.9751 mL
10 mM	0.5488 mL	2.7438 mL	5.4876 mL
50 mM	0.1098 mL	0.5488 mL	1.0975 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.

### Reference

Takayuki T , Keiichiro I , Hideki H , et al. Potential Neuroprotective Effects of an LSD1 Inhibitor in Retinal Ganglion Cells via p38 MAPK Activity[J]. Investigative Ophthalmology & Visual Science, 2016, 57(14):6461-.

Chen X, Chen Z, Li M, et al. Tranylcypromine upregulates Sestrin 2 expression to ameliorate NLRP3-related noise-induced hearing loss. Neural Regeneration Research. 2025, 20(5): 1483-1494.

Neuroprotective effects of the monoamine oxidase inhibitor tranylcypromine and its amide derivatives against A $\beta$  (1-42)-induced toxicity[J]. European Journal of Pharmacology, 2015, 764:256-263.

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