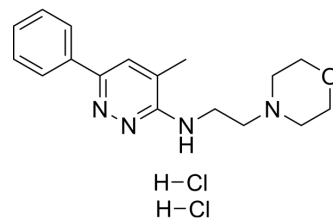


## Minaprine dihydrochloride

Cat. No.:	HY-B0884A
CAS No.:	25953-17-7
Molecular Formula:	C <sub>17</sub> H <sub>24</sub> Cl <sub>2</sub> N <sub>4</sub> O
Molecular Weight:	371.3
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
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 : ≥ 100 mg/mL (269.32 mM)  
 H<sub>2</sub>O : 100 mg/mL (269.32 mM; Need ultrasonic)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		2.6932 mL	13.4662 mL	26.9324 mL
	5 mM		0.5386 mL	2.6932 mL	5.3865 mL
	10 mM		0.2693 mL	1.3466 mL	2.6932 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 100 mg/mL (269.32 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.73 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Minaprine dihydrochloride is a reversible inhibitor of MAO-A; weakly inhibit acetylcholinesterase; an antidepressant for treatment of depression.

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## REFERENCES

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- [1]. Kan JP, et al. Effect of the antidepressant minaprine on both forms of monoamine oxidase in the rat. *Biochem Pharmacol.* 1986 Mar 15;35(6):973-8.
- [2]. Contreras JM, et al. Aminopyridazines as acetylcholinesterase inhibitors. *J Med Chem.* 1999 Feb 25;42(4):730-41.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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