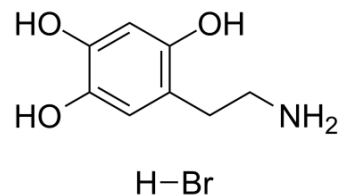


## Oxidopamine hydrobromide

<b>Cat. No.:</b>	HY-B1081A
<b>CAS No.:</b>	636-00-0
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>12</sub> BrNO <sub>3</sub>
<b>Molecular Weight:</b>	250.09
<b>Target:</b>	Dopamine Receptor; Autophagy; Mitophagy
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling; Autophagy
<b>Storage:</b>	4°C, stored under nitrogen

\* The compound is unstable in solutions, freshly prepared is recommended.



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (199.93 mM); ultrasonic and warming and heat to 60°C  
 H<sub>2</sub>O : 20 mg/mL (79.97 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.9986 mL	19.9928 mL	39.9856 mL
	5 mM	0.7997 mL	3.9986 mL	7.9971 mL
	10 mM	0.3999 mL	1.9993 mL	3.9986 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.5 mg/mL (10.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.5 mg/mL (10.00 mM); Clear solution
- Add each solvent one by one: PBS  
 Solubility: 50 mg/mL (199.93 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

Oxidopamine hydrobromide (6-OHDA hydrobromide), an antagonist of the neurotransmitter dopamine, is a widely used neurotoxin that selectively destroys dopaminergic neurons.

### CUSTOMER VALIDATION

- Metab Brain Dis. 2021 Jan 28.
- Neurol Res. 2018 Sep;40(9):736-743.
- Chinese Pharmacological Bulletin. 2018 May; 34(5): 620-626.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Fujita H et al. Cell-permeable cAMP analog suppresses 6-hydroxydopamine-induced apoptosis in PC12 cells through the activation of the Akt pathway. Brain Res. 2006 Oct 3;1113(1):10-23.

[2]. Soto-Otero R et al. Autoxidation and neurotoxicity of 6-hydroxydopamine in the presence of some antioxidants: potential implication in relation to the pathogenesis of Parkinson's disease. J Neurochem. 2000 Apr;74(4):1605-12.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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