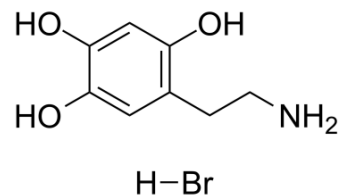


Oxidopamine hydrobromide

Cat. No.:	HY-B1081A
CAS No.:	636-00-0
Molecular Formula:	C ₈ H ₁₂ BrNO ₃
Molecular Weight:	250.09
Target:	Dopamine Receptor; Autophagy; Mitophagy
Pathway:	GPCR/G Protein; Neuronal Signaling; Autophagy
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (199.93 mM; ultrasonic and warming and heat to 60°C)
H₂O : 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

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- 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

REFERENCES

[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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA