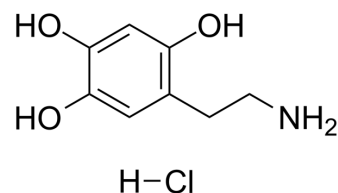


Oxidopamine hydrochloride

Cat. No.:	HY-B1081
CAS No.:	28094-15-7
Molecular Formula:	C ₈ H ₁₂ ClNO ₃
Molecular Weight:	205.64
Target:	Dopamine Receptor; Autophagy; Mitophagy
Pathway:	GPCR/G Protein; Neuronal Signaling; Autophagy
Storage:	4°C, stored under nitrogen

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



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (486.29 mM; Need ultrasonic)
 DMSO : 83.33 mg/mL (405.22 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.8629 mL	24.3143 mL	48.6287 mL
	5 mM	0.9726 mL	4.8629 mL	9.7257 mL
	10 mM	0.4863 mL	2.4314 mL	4.8629 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: ≥ 2.08 mg/mL (10.11 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.08 mg/mL (10.11 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Oxidopamine hydrochloride (6-OHDA hydrochloride), 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.

- Research Square Print. 2022 Jul.
- 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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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