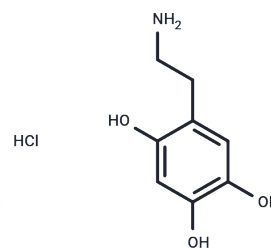


Oxidopamine hydrochloride

Chemical Properties

CAS No. :	28094-15-7
Formula:	C ₈ H ₁₂ ClNO ₃
Molecular Weight:	205.64
Appearance:	no data available
Storage:	store under nitrogen
	Powder: -20°C for 3 years



Biological Description

Description	Oxidopamine hydrochloride (6-Hydroxydopamine hydrochloride) is an neurotransmitter dopamine antagonist.
Targets(IC50)	Mitophagy, Autophagy, Dopamine Receptor

Solubility Information

Solubility	H ₂ O: 62.49 mg/mL (303.88 mM), Sonication and heating are recommended. The compound is unstable in solution, please use soon. DMSO: 62.49 mg/mL (303.88 mM), Sonication and heating are recommended. The compound is unstable in solution, please use soon. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0973 mL	0.4863 mL	0.9726 mL

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.

Reference

- 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.
- Fu C L, Dong B C, Jiang X, et al. A cell therapy approach based on iPSC-derived midbrain organoids for the restoration of motor function in a Parkinson's disease mouse model. *Heliyon.* 2024
- 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.
- Zhao X, Li F, Cheng C, et al. Social isolation promotes tumor immune evasion via β 2-adrenergic receptor. *Brain, Behavior, and Immunity.* 2024
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