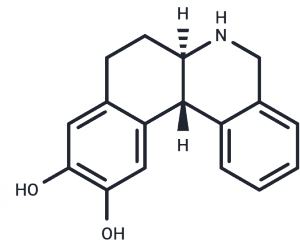


Dihydroxidine

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 123039-93-0 |
| Formula: | C17H17NO2 |
| Molecular Weight: | 267.32 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|---|
| Description | Dihydroxidine is a full efficacy D1-like dopamine receptor (D1/D5) agonist (IC50: 10 nM for D1 receptor). It also shows potent antiparkinsonian activity. |
| Targets(IC50) | Dopamine Receptor |
| In vivo | Dihydroxidine shows poor oral bioavailability. It also has a relatively short half-life of 1 to 2 h [3]. Dihydroxidine hydrochloride (3 mg/kg; i.p.) yields dopamine D1 receptor agonist effects in vivo [4]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.7408 mL | 18.7042 mL | 37.4083 mL |
| 5 mM | 0.7482 mL | 3.7408 mL | 7.4817 mL |
| 10 mM | 0.3741 mL | 1.8704 mL | 3.7408 mL |
| 50 mM | 0.0748 mL | 0.3741 mL | 0.7482 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Lovenberg TW, et al. Dihydroxidine, a novel selective high potency full dopamine D-1 receptor agonist. Eur J Pharmacol. 1989 Jul 4;166(1):111-3.
- Mottola DM, et al. Dihydroxidine, a novel full efficacy D1 dopamine receptor agonist. J Pharmacol Exp Ther. 1992 Jul;262(1):383-93.
- Salmi P, et al. Dihydroxidine--the first full dopamine D1 receptor agonist. CNS Drug Rev. 2004 Fall;10(3):230-42.
- Gleason, S. D., et al. Effects of dopamine D1 receptor agonists in rats trained to discriminate dihydroxidine. Psychopharmacology, 2006;186(1), 25-31.

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