Data Sheet (Cat.No.T38221)

TargetMol

N,N-Dipropyldopamine (hydrobromide)

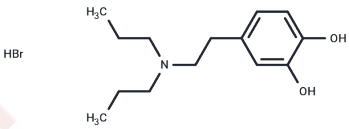
Chemical Properties

CAS No. : 65273-66-7

Formula: C14H24BrNO2

Molecular Weight: 318.255

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	N,N-Dipropyldopamine is a dopamine receptor agonist.1,2,3 It decreases dihydrophenylalanine (DOPA) levels in the limbic forebrain and striatum of reserpinized rats (ED50s = 25 and 20 μmol/kg, respectively), as well as reduces homovanillic acid levels in rat striatum when administered at a dose of 80 μmol/kg.1 N,N-Dipropyldopamine (0.5-16 mg/kg) reduces spontaneous locomotor activity in mice, an effect that can be reversed by the antipsychotic spiroperidol.2,3
Targets(IC50)	Others,GluR

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1421 mL	15.7104 mL	31.4209 mL
5 mM	0.6284 mL	3.1421 mL	6.2842 mL
10 mM	0.3142 mL	1.571 mL	3.1421 mL
50 mM	0.0628 mL	0.3142 mL	0.6284 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

Wikstr?m, H., Lindberg, P., Martinson, P., et al. Pivaloyl esters of N,N-dialkylated dopamine congeners. Central dopamine-receptor stimulating activity. J. Med. Chem. 21(9), 864-867 (1978).
Feenstra, M.G., Rollema, H., Horn, A.S., et al. Effect of dihydroxy-2-aminotetralin derivatives on dopamine metabolism in the rat striatum. Naunyn Schmiedebergs Arch. Pharmacol. 310(3), 219-225 (1980).
Costall, B., Lim, S.K., and Naylor, R.J. Characterisation of the mechanisms by which purported dopamine agonists reduce spontaneous locomotor activity of mice. Eur. J. Pharmacol. 73(2-3), 175-188 (1981).

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481