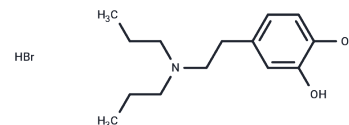


N,N-Dipropyldopamine (hydrobromide)

Chemical Properties

CAS No. :	65273-66-7
Formula:	C ₁₄ H ₂₄ BrNO ₂
Molecular Weight:	318.255
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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 (ED ₅₀ s = 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}
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Solubility Information

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

Reference

Wikström, 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).

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