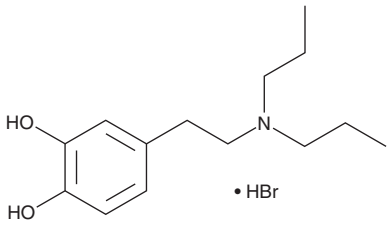
PRODUCT INFORMATION

N,N-Dipropyldopamine (hydrobromide)

Item No. 28937

CAS Registry No.:	65273-66-7
Formal Name:	4-[2-(dipropylamino)ethyl]-1,2-benzenediol, monohydrobromide
MF:	$C_{14}H_{23}NO_2$ • HBr
FW:	318.2
Purity:	≥98%
UV/Vis.:	λ_{max}: 283 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

N,N-Dipropyldopamine (hydrobromide) is supplied as a solid. A stock solution may be made by dissolving the N,N-dipropyldopamine (hydrobromide) in the solvent of choice, which should be purged with an inert gas. N,N-Dipropyldopamine (hydrobromide) is soluble in the organic solvent DMSO.

Description

N,N-Dipropyldopamine is a dopamine receptor agonist.[1-3] 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 (HVA; Item No. 27307) 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]

References

1. 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).
2. 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).
3. 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).

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