

Product Name: (R)-(+)-8-Hydroxy-DPAT hydrobromide

Catalog No.: 1080

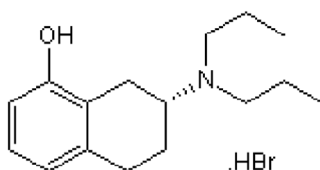
Batch No.: 8

CAS Number: 78095-19-9

IUPAC Name: (2R)-(+)-8-Hydroxy-2-(di-*n*-propylamino)tetralin hydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₂₅NO.HBr
Batch Molecular Weight: 328.29
Physical Appearance: Off White solid
Solubility: water to 75 mM
 DMSO to 75 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
Chiral HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +68 (Concentration = 1, Solvent = Methanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.54	7.98	4.27
Found	58.28	8.06	4.34

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

(R)-(+)-8-Hydroxy-DPAT hydrobromide is a full 5-HT_{1A} serotonin receptor agonist. Reduces hippocampal 5-HT levels following systemic administration in rats in vivo. More active enantiomer of 8-Hydroxy-DPAT hydrobromide. Racemate and 7-Hydroxy Isomer also available.

Physical and Chemical Properties:

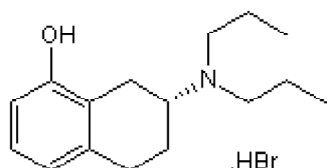
Batch Molecular Formula: C₁₆H₂₅NO.HBr

Batch Molecular Weight: 328.29

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 75 mM

DMSO to 75 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Yoshitake and Kehr (2004) Differential effects of (R)-, (R, S)- and (S)-8-hydroxy-2-(di-*n*-propylamino)tetralin on hippocampal serotonin release and induction of hypothermia in awake rats. *Life Sci.* **74** 2865. PMID: 15050424.

Corrfield et al (1991) Intrinsic activity of enantiomers of 8-hydroxy-2-(di-*n*-propylamino)tetralin and its analogues at 5-hydroxytryptamine_{1A} receptors that are negatively coupled to adenylate cyclase. *Mol.Pharmacol.* **39** 780. PMID: 1828859.

Bjork et al (1989) Resolved N,N-dialkylated 2-amino-8-hydroxytetralins: stereoselective interactions with 5-HT_{1A} receptors in the brain. *J.Med.Chem.* **32** 779. PMID: 2522991.

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