

## Certificate of Analysis

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**Product Name:** 8-Hydroxy-DPAT hydrobromide

**Catalog No.:** 0529

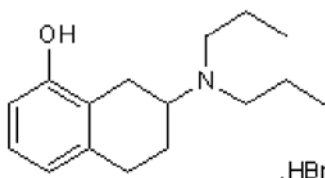
**Batch No.:** 14

CAS Number: 76135-31-4

IUPAC Name: (±)-8-Hydroxy-2-dipropylaminotetralin hydrobromide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>16</sub>H<sub>25</sub>NO.HBr  
**Batch Molecular Weight:** 328.29  
**Physical Appearance:** Off White solid  
**Solubility:** ethanol to 5 mM  
 water to 10 mM with gentle warming  
 DMSO to 50 mM  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.54	7.98	4.27
Found	58.59	8.01	4.19

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

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**Description:**

The standard selective 5-HT<sub>1A</sub> agonist. Also has moderate affinity for 5-HT<sub>7</sub> receptors (pK<sub>i</sub> is 6.6 at the human 5-HT<sub>7</sub> receptor expressed in HEK 293 cells). Reduces hippocampal 5-HT levels following systemic administration in rats in vivo. R-enantiomer and 7-Hydroxy Isomer also available..

**Physical and Chemical Properties:**

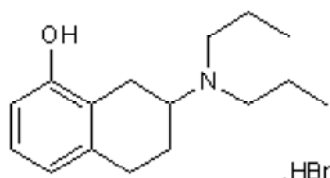
Batch Molecular Formula: C<sub>16</sub>H<sub>25</sub>NO.HBr

Batch Molecular Weight: 328.29

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

ethanol to 5 mM  
water to 10 mM with gentle warming  
DMSO to 50 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. Our standard recommendations are:

**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.

**Wood et al** (2000) Antagonist activity of meta-chlorophenylpiperazine and partial agonist activity of 8-OH-DPAT at the 5-HT<sub>7</sub> receptor. *Eur.J.Pharmacol.* **396** 1. PMID: 10822046.

**Helton and Colbert** (1994) Alteration of in-vitro 5-HT receptor pharmacology as a function of multiple treatment with 5-hydroxytryptamine of 8-hydroxy-2-(di-*N*-propylamino)tetralin in rat isolated aorta, uterus and fundus, and guinea pig isolated trachea. *J.Pharm.Pharmacol.* **46** 902. PMID: 7897596.

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