

## Certificate of Analysis

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**Product Name:** SKF 38393 hydrobromide

**Catalog No.:** 0922

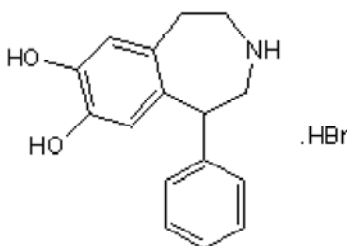
**Batch No.:** 12

CAS Number: 20012-10-6

IUPAC Name: (±)-1-Phenyl-2,3,4,5-tetrahydro-(1*H*)-3-benzazepine-7,8-diol hydrobromide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>16</sub>H<sub>17</sub>NO<sub>2</sub>.HBr  
**Batch Molecular Weight:** 336.23  
**Physical Appearance:** Off White solid  
**Solubility:** water to 25 mM with gentle warming  
DMSO to 100 mM  
**Storage:** Desiccate at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 97.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.16	5.4	4.17
Found	57.22	5.42	4.03

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

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**Description:**

Prototypical D<sub>1</sub>-like dopamine receptor selective partial agonist (K<sub>i</sub> values are 1, ~ 0.5, ~ 150, ~ 5000 and ~ 1000 nM for D<sub>1</sub>, D<sub>5</sub>, D<sub>2</sub>, D<sub>3</sub> and D<sub>4</sub> receptors respectively).

**Physical and Chemical Properties:**

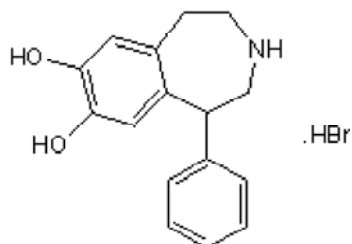
Batch Molecular Formula: C<sub>16</sub>H<sub>17</sub>NO<sub>2</sub>.HBr

Batch Molecular Weight: 336.23

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

water to 25 mM with gentle warming  
DMSO to 100 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:**

**Geter-Douglass et al** (1997) Characterization of unconditioned behavioral effects of DA D<sub>3</sub>/D<sub>2</sub> receptor agonists. *J.Pharmacol.Exp.Ther.* **283** 7. PMID: 9336302.

**Habuchi et al** (1997) DA stimulation of cardiac β-adrenoceptors: the involvement of sympathetic amine transporters and the effect of SKF38393. *Br.J.Pharmacol.* **122** 1669. PMID: 9422813.

**Seeman and Van Tol** (1994) DA receptor pharmacology. *TiPS* **15** 264. PMID: 7940991.

**Sibley et al** (1982) Interactions of novel DArgic ligands with D<sub>1</sub> and D<sub>2</sub> DA receptors. *Life Sci.* **31** 637. PMID: 6127585.

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