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Print Date: Sep 29th 2019

Certificate of Analysis

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Product Name: **SKF 38393 hydrobromide** **Catalog No.: 0922** **Batch No.: 3**

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: $C_{16}H_{17}NO_2.HBr.¼H_2O$

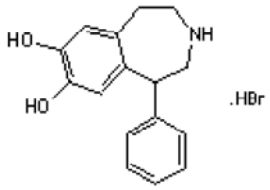
Batch Molecular Weight: 340.73

Physical Appearance: Tan solid

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

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.42 (Dichloromethane:Methanol [10:1])

Melting Point: At 287°C

HPLC: Shows >99.6% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	
Theoretical	56.4	5.47	4.11	0 0 0
Found	56.46	5.33	4.12	0 0 0

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

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Description:

Prototypical D_1-like dopamine receptor selective partial agonist (K_i values are 1, ~ 0.5, ~ 150, ~ 5000 and ~ 1000 nM for D_1, D_5, D_2, D_3 and D_4 receptors respectively).

Physical and Chemical Properties:

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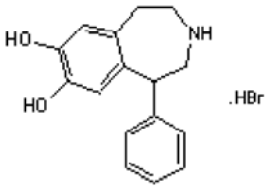
Physical Appearance: Tan solid

Minimum Purity: >99%

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_3/D_2 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_1 and D_2 DA receptors. Life Sci. ***31*** 637. PMID: 6127585.

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