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Print Date: Jan 13th 2016

Certificate of Analysis

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Product Name: **SKF 77434 hydrobromide** **Catalog No.: 1662** **Batch No.: 3**

CAS Number: 300561-58-4

IUPAC Name: 2,3,4,5-Tetrahydro-1-phenyl-3-(2-propenyl)-1*H*-3-benzazepine-7,8-diol hydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{21}NO_2.HBr.¼H_2O$

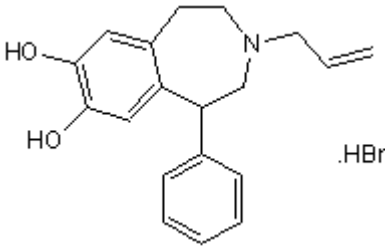
Batch Molecular Weight: 380.79

Physical Appearance: White solid

Solubility: water to 10 mM
ethanol to 10 mM
DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.43 (Dichloromethane:Methanol:Ammonia soln. [10:1:0.01])

Melting Point: Between 240 - 242°C

HPLC: Shows >99.6% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.93	5.96	3.68
Found	60.18	5.85	3.52

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Description:

Selective dopamine D_1-like receptor partial agonist (IC_{50} values are 19.7 and 2425 nM for binding to D_1-like and D_2-like receptors respectively). Centrally active following systemic administration in vivo.

Physical and Chemical Properties:

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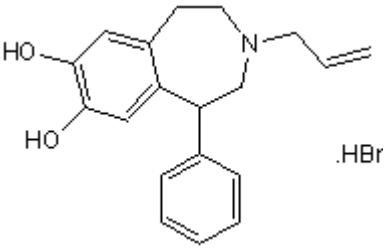
Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

water to 10 mM
ethanol to 10 mM
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:

Briggs *et al* (1991) Activation of the 5-HT_{1C} receptor expressed in *Xenopus* oocytes by the benzazepines SCH 23390 and SKF 38393. Br.J.Pharmacol. ***104*** 1038. PMID: 1687364.

Neumeyer *et al* (1992) Stereoisomeric probes for the D_1 dopamine receptor: synthesis and characterization of *R*-(+) and *S*-(-) enantiomers of 3-allyl-7,8-dihydroxy-1-phenyl-2,3,4,5-tetrahydro-1*H*-3-benzazepine and its 6-bromo analogue. J.Med.Chem. ***35*** 1466. PMID: 1533424.

Meyer and Schults (1993) Dopamine D_1 receptor family agonists, SK&F38393, SK&F77434, and SK&F82958, differentially affect locomotor activities in rats. Pharmacol.Biochem.Behav. ***46*** 269. PMID: 7903456.