Print Date: Mar 23rd 2017

Certificate of Analysis

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Product Name: **SCH 39166 hydrobromide** **Catalog No.: 2299** **Batch No.: 5**

CAS Number: 1227675-51-5

IUPAC Name: (6a*S*-*trans*)-11-Chloro-6,6a,7,8,9,13b-hexahydro-7-methyl-5*H*-benzo[*d*]naphth[2,1-*b*]azepin-12-ol hydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{20}ClNO.HBr$

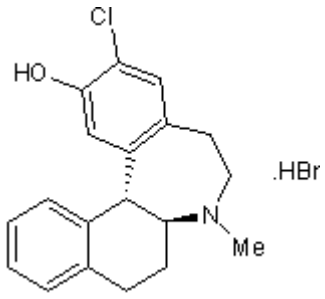
Batch Molecular Weight: 394.73

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.81	5.36	3.55
Found	57.64	5.36	3.39

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Product Information

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Description:

High affinity dopamine D_1/D_5 receptor antagonist; displays K_i values of 1.2, 2, 980, 5520, 80 and 731 nM for binding to D_1, D_5, D_2, D_4, 5-HT and α_{2a} receptors, respectively.

Physical and Chemical Properties:

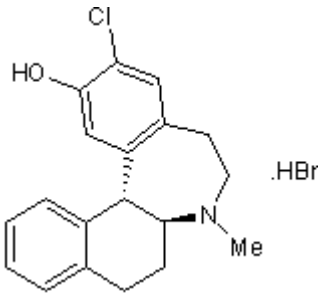
Batch Molecular Formula: $C_{19}H_{20}ClNO.HBr$

Batch Molecular Weight: 394.73

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

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:

Wu *et al* (2005) Dopamine D_1/D_5 receptor antagonists with improved pharmacokinetics: design, synthesis, and biological evaluation of phenol bioisosteric analogues of benzazepine D_1/D_5 antagonists. J.Med.Chem. ***48*** 680. PMID: 15689153.

Terry and Katz (1994) A comparison of the effects of the D1 receptor antagonists SCH 23390 and SCH 39166 on suppression of feeding behaviour by the D1 agonist SKF38393. Psychopharmacology ***113*** 328. PMID: 7862841.

McQuade *et al* (1991) In vivo binding of SCH 39166: a D-1 selective antagonist. J.Pharmacol.Exp.Ther. ***257*** 42. PMID: 1826927.

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