

Certificate of Analysis

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Product Name: SKF 82958 hydrobromide

Catalog No.: 5719

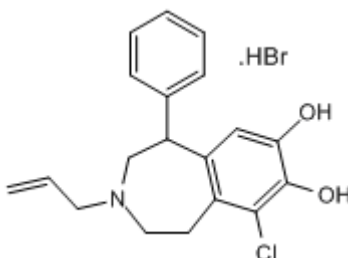
Batch No.: 1

CAS Number: 74115-01-8

IUPAC Name: 6-Chloro-2,3,4,5-tetrahydro-1-phenyl-3-(2-propen-1-yl)-1*H*-3-benzazepine-7,8-diol hydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₀ClNO₂·HBr
Batch Molecular Weight: 410.73
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 water to 5 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.53 (DCM/MeOH/NH₄OH 9/1/ 3 drops)
HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.56	5.15	3.41
Found	55.79	5.11	3.39

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

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Description:

D₁ agonist. Increases renal blood flow in animal models and promotes contralateral rotation in rats with unilateral lesions of the substantia nigra. Also augments GABA_B inhibitory post-synaptic potentials (ipsp) in ventral tegmental area in brain slices.

Physical and Chemical Properties:

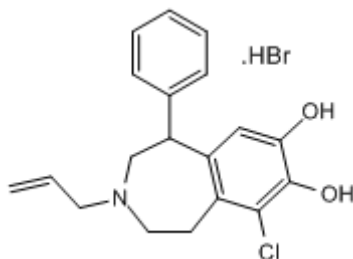
Batch Molecular Formula: C₁₉H₂₀ClNO₂.HBr

Batch Molecular Weight: 410.73

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Cameron and Williams (1993) Dopamine D₁ receptors facilitate transmitter release. *Nature* **366** 344. PMID: 8247128.

Pfeiffer et al (1982) Dopaminergic activity of substituted 6-chloro-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepines. *J.Med.Chem.* **25** 352. PMID: 7069713.

Storage: Store at RT

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:

DMSO to 100 mM

water to 5 mM with gentle warming

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.

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