

Product Name: SKF 81297 hydrobromide

Catalog No.: 1447

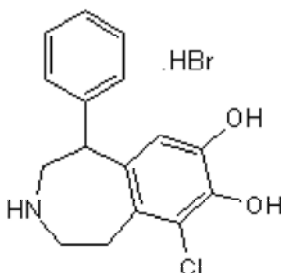
Batch No.: 7

CAS Number: 67287-39-2

IUPAC Name: (±)-6-Chloro-2,3,4,5-tetrahydro-1-phenyl-1*H*-3-benzazepine hydrobromide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₆ClNO₂.HBr.½H₂O
Batch Molecular Weight: 379.68
Physical Appearance: Pale beige solid
Solubility: DMSO to 100 mM
water to 10 mM with gentle warming
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.22 (10% MeOH / DCM (+1% NH₃ / MeOH))
HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.62	4.78	3.69
Found	50.26	4.8	3.79

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

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IUPAC Name: (±)-6-Chloro-2,3,4,5-tetrahydro-1-phenyl-1H-3-benzazepine hydrobromide

Description:

Dopamine D₁-like receptor agonist. Centrally active following systemic administration in vivo.

Physical and Chemical Properties:

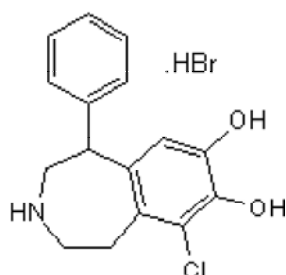
Batch Molecular Formula: C₁₆H₁₆ClNO₂·HBr·½H₂O

Batch Molecular Weight: 379.68

Physical Appearance: Pale beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 100 mM

water to 10 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.

References:

Reavill et al (1993) Pharmacological characterization of the discriminative stimulus properties of the DA D₁ agonist, SKF 81297. *Behav.Pharmacol.* **4** 135. PMID: 11224180.

Peacock et al (1990) The effects of DA D₁ and D₂ receptor agonists and antagonists in monkeys withdrawn from long-term neuroleptic treatment. *Eur.J.Pharmacol.* **186** 49. PMID: 1980891.

Arnt et al (1988) Relative DA D₁ and D₂ receptor affinity and efficacy determine whether DA agonists induce hyperactivity or oral stereotypy in rats. *Pharmacol.Toxicol.* **62** 121. PMID: 3259694.

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