bio-techne
TOCRIS

Print Date: Oct 21st 2024

Certificate of Analysis

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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: $C_{16}H_{16}ClNO_2.HBr.½H_2O$

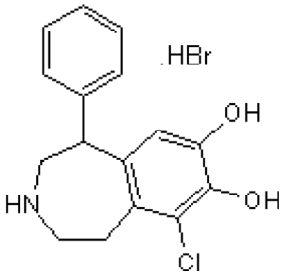
Batch Molecular Weight: 379.68

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 99.0% purity

^{1}H 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

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

Description:

SKF 81297 hydrobromide is a dopamine D_1-like receptor agonist. Centrally active following systemic administration in vivo.

Physical and Chemical Properties:

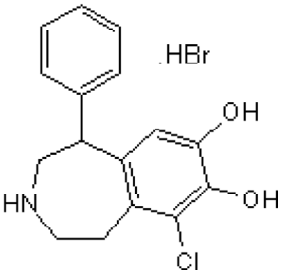
Batch Molecular Formula: $C_{16}H_{16}ClNO_2.HBr.½H_2O$

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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 D_1 agonist, SKF 81297. Behav.Pharmacol. ***4*** 135. PMID: 11224180.

Peacock *et al* (1990) The effects of DA D_1 and D_2 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 D_1 and D_2 receptor affinity and efficacy determine whether DA agonists induce hyperactivity or oral stereotypy in rats. Pharmacol.Toxicol. ***62*** 121. PMID: 3259694.