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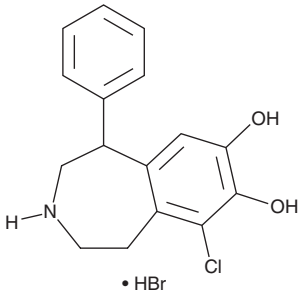
PRODUCT INFORMATION

(±)-SKF 81297 (hydrobromide)

Item No. 15067

CAS Registry No.:	67287-39-2
Formal Name:	6-chloro-2,3,4,5-tetrahydro-1-phenyl-1H-3-benzazepine-7,8-diol, monohydrobromide
Synonym:	(±)-6-chloro-PB
MF:	$C_{16}H_{16}ClNO_2$ • HBr
FW:	370.7
Purity:	≥98%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

(±)-SKF 81297 (hydrobromide) is supplied as a crystalline solid. A stock solution may be made by dissolving the (±)-SKF 81297 (hydrobromide) in the solvent of choice, which should be purged with an inert gas. (±)-SKF 81297 (hydrobromide) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of (±)-SKF 81297 (hydrobromide) in ethanol is approximately 2 mg/ml and approximately 20 mg/ml in DMSO and DMF.

(±)-SKF 81297 (hydrobromide) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (±)-SKF 81297 (hydrobromide) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. (±)-SKF 81297 (hydrobromide) has a solubility of approximately 0.04 mg/ml in a 1:20 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

(±)-SKF 81297 is a selective agonist of the dopamine D_1-like receptor (K_i = 1.9 nM).[1] It demonstrates comparatively lower binding affinity for the dopamine D_2, dopamine D_3, serotonin 5-HT_{2A}, and adrenergic α_2 receptors (K_is = 1,272, >10,000, 955, and 509 nM, respectively).[1] Activation of dopamine D_1-like receptors by selective agonists such as (±)-SKF 81297 have been implicated in initiating a cascade of signaling events leading to reward-related incentive learning.[2]

References

1. Neumeyer, J.L., Kula, N.S., Bergman, J., *et al.* Receptor affinities of dopamine D_1 receptor-selective novel phenylbenzazepines. *Eur. J. Pharmacol.* **474(2-3)**, 137-140 (2003).
2. Beninger, R.J. and Miller, R. Dopamine D_1-like receptors and reward-related incentive learning. *Neurosci. Biobehav. Rev.* **22(2)**, 335-345 (1998).

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