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DATASHEET

SKF 81297 hydrobromide

Product overview

Name	SKF 81297 hydrobromide
Cat No	HB1858
Biological action	Agonist
Purity	>98%
Customer comments	*SKF81297 hydrobromide is an excellent quality for a fair price. The product had an excellent quality and worked perfectly fine in our experiments. In addition, Hello Bio was the cheapest vendor we could find.***Verified customer, MedUni Wien** *Great Product. Compound (SKF 81297 hydrobromide) dissolves into solution easily and produces consistent results.* **Verified customer, Florida Atlantic University**
Description	D_1-like receptor agonist

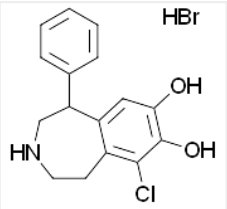
Biological Data

Biological description	D_1-like receptor agonist (K_i values are 2.2 and >1000 nM at D_1 and D_2 receptors respectively). Shows ~500 times greater affinity for D_1 over D_2. Stimulates motor behaviour. Active *in vivo*.

Solubility & Handling

Storage instructions	+4°C (desiccate)
Solubility overview	Soluble in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(±)-6-Chloro-2,3,4,5-tetrahydro-1-phenyl-1*H*-3-benzazepine hydrobromide
Molecular Weight	370.67
Chemical structure	
Molecular Formula	$C_{16}H_{16}ClNO_2$.HBr
CAS Number	67287-39-2
PubChem identifier	11957706
SMILES	Br.OC1=C(O)C(Cl)=C2CCNCC(C3=CC=CC=C3)C2=C1
InChiKey	RMIJGBMRNYUZRG-UHFFFAOYSA-N

References

Time-course of SKF-81297-induced increase in glutamic acid decarboxylase 65 and 67 mRNA levels in striatonigral neurons

and decrease in GABA(A) receptor alpha1 subunit mRNA levels in the substantia nigra, pars reticulata, in adult rats with a unilateral 6

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Dopamine D1 activation shortens the duration of phases in stereotyped grooming sequences.

Matell MS *et al* (2006) Behav Processes 71(2-3)
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The selective dopamine D1 receptor agonist, SKF 81297, stimulates motor behaviour of MPTP-lesioned monkeys.

Vermeulen RJ *et al* (1993) Eur J Pharmacol 235(1)
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Dose-dependent effects of the dopamine D1 receptor agonists A77636 or SKF81297 on spatial working memory in aged monkeys.

Cai JX *et al* (1997) J Pharmacol Exp Ther 283(1)
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