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DATASHEET

SKF 83566 hydrobromide

Product overview

Name	SKF 83566 hydrobromide
Cat No	HB1863
Alternative names	SKF-83566
Biological action	Antagonist
Purity	>98%
Description	Potent, selective D_1-like receptor antagonist

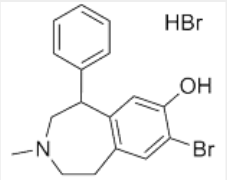
Biological Data

Biological description	Potent, selective D_1-like receptor antagonist (K_i values are 0.3 and 0.4 nM at D_1 and D_5 receptors respectively). Also inhibits DAT (IC_{50} = 5.7 µM) and acts as a selective adenylyl cylase 2 (AC2) inhibitor. Centrally active following systemic administration.

Solubility & Handling

Storage instructions	room temperature (desiccate)
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	8-Bromo-2,3,4,5-tetrahydro-3-methyl-5-phenyl-1*H*-3-benzazepin-7-ol hydrobromide
Molecular Weight	413.15
Chemical structure	
Molecular Formula	$C_{17}H_{18}BrNO.HBr$
CAS Number	108179-91-5
PubChem identifier	23581817
SMILES	Br.CN1CCC2=CC(Br)=C(O)C=C2C(C1)C1=CC=CC=C1
InChiKey	SDQJYYGODYRPBR-UHFFFAOYSA-N

References

Cloning of the gene for a human dopamine D5 receptor with higher affinity for dopamine than D1.

Sunahara RK *et al* (1991) Nature 350(6319)
PubMedID 1826762

Locomotor stereotypy produced by dexbenzetimide and scopolamine is reduced by SKF 83566, not sulpiride.

Fritts ME *et al* (1998) Pharmacol Biochem Behav 60(3)
PubMedID 9678647

SKF-83566, a D1-dopamine receptor antagonist, inhibits the dopamine transporter.

Stouffer MA *et al* (2011) J Neurochem 118(5)
PubMedID 21689106

Development of a high-throughput screening paradigm for the discovery of small-molecule modulators of adenylyl cyclase: identification of an adenylyl cyclase 2 inhibitor.

Conley JM *et al* (2013) J Pharmacol Exp Ther 347(2)
PubMedID 24008337