

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



## DATASHEET

### SKF 38393 hydrobromide

#### Product overview

<b>Name</b>	SKF 38393 hydrobromide
<b>Cat No</b>	HB1840
<b>Biological action</b>	Agonist
<b>Purity</b>	>98%
<b>Description</b>	Prototypic, selective D <sub>1</sub> -like receptor partial agonist

#### Biological Data

**Biological description** Prototypic, selective D<sub>1</sub>-like dopamine receptor partial agonist (K<sub>i</sub> values are 1 and ~ 0.5 nM at D<sub>1</sub>-like receptors (D<sub>1</sub> and D<sub>5</sub>) and ~ 150, ~ 5000 and ~ 1000 nM at D<sub>2</sub>-like receptors (D<sub>2</sub>, D<sub>3</sub> and D<sub>4</sub>) respectively).

SKF 38393 facilitates long term potentiation (LTP) via D<sub>1</sub> and D<sub>5</sub> activation and has also been shown to presynaptically stimulate glutamate release in the hippocampus.

Additionally activates the HPA axis to increase ACTH and corticosterone levels.

Shows proconvulsant and anorexic effects.

Blood brain barrier permeable.

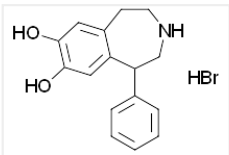
Active in vivo.

SKF 38393 hydrochloride also available.

#### Solubility & Handling

<b>Storage instructions</b>	-20 °C (desiccate)
<b>Solubility overview</b>	Soluble in water (25 mM, warming) and in DMSO (100 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

#### Chemical Data

<b>Chemical name</b>	(±)-1-Phenyl-2,3,4,5-tetrahydro-(1 <i>H</i> )-3-benzazepine-7,8-diol hydrobromide
<b>Molecular Weight</b>	336.23
<b>Chemical structure</b>	 The chemical structure shows a benzazepine ring system with a phenyl group at position 1 and two hydroxyl groups at positions 7 and 8. It is shown as a hydrobromide salt. SMILES: <chem>Oc1ccc(O)c2c1NCCc3ccccc32.[Br-]</chem>
<b>Molecular Formula</b>	C <sub>16</sub> H <sub>17</sub> NO <sub>2</sub> .HBr
<b>CAS Number</b>	20012-10-6
<b>PubChem identifier</b>	12928470

<b>SMILES</b>	C1CNCC(C2=CC(=C(C=C21)O)O)C3=CC=CC=C3.Br
<b>Source</b>	Synthetic
<b>InChi</b>	InChi=1S/C16H17NO2.BrH/c18-15-8-12-6-7-17-10-14(13(12)9-16(15)19)11-4-2-1-3-5-11;/h1-5,8-9,14,17-19H,6-7,10H2;1H
<b>InChiKey</b>	INNWVRBZMBCEJI-UHFFFAOYSA-N
<b>Appearance</b>	White solid

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## 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](#)

### **The anorectic effect of SK&F 38393, a selective dopamine D1 receptor agonist: a microstructural analysis of feeding and related behaviour.**

Cooper SJ *et al* (1990) *Psychopharmacology (Berl)* 100(2)

**PubMedID** [1968277](#)

### **Effects of quinpirole and SKF 38393 alone and in combination in squirrel monkeys trained to discriminate cocaine.**

Katz JL *et al* (1992) *Psychopharmacology (Berl)* 107(2-3)

**PubMedID** [1352052](#)

### **Dopamine receptor pharmacology.**

Seeman and Van Tol (1994) *Trends Pharmacol Sci.* 15(5)

**PubMedID** [7940991](#)

### **D1/5 receptor-mediated enhancement of LTP requires PKA, Src family kinases, and NR2B-containing NMDARs.**

Stramiello and Wagner (2008) *Neuropharmacology* 55(5)

**PubMedID** [18644393](#)

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