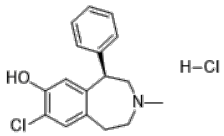
ProbeChem®
Expedite Your Scientific Research

Data Sheet

WWW.PROBECHEM.COM

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	SCH23390 hydrochloride
Cat. No.	:	PC-22147
CAS No.	:	125941-87-9
Molecular Formula	:	$C_{17}H_{19}Cl_2NO$
Molecular Weight	:	324.25
Target	:	Dopamine Receptor
Solubility	:	10 mM in DMSO



Biological Activity

SCH23390 hydrochloride is a potent and selective dopamine D1-like receptor antagonist with Kis of 0.2 nM and 0.3 nM for the D1 and D5 receptor, respectively.
SCH23390 shows high affinity to human 5-HT2C receptor with a Ki of 9.3 nM, also binds with high affinity to the 5-HT2 and 5-HT1C receptors.
SCH23390 inhibits G protein-coupled inwardly rectifying potassium (GIRK) channel with IC50 of 268 nM.
SCH23390 (1 uM) reverses the inhibitory effects of Isosibiricin on NLRP3 expression and the cleavages of caspase-1 and IL-1β in the LPS-induced BV-2 cells.
SCH23390 abolishes generalized seizures evoked by the chemoconvulsants.

References

Bourne JA, et al. CNS Drug Rev. 2001 Winter;7(4):399-414.

Millan MJ, et al. Psychopharmacology (Berl). 2001 Jun;156(1):58-62.

Kuzhikandathil EV, et al. Mol Pharmacol. 2002 Jul;62(1):119-26.

E-mail: tech@probechem.com