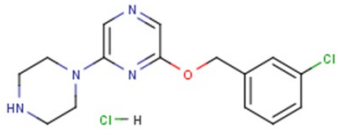
Data Sheet (Cat.No.T10871)

TargetMol
A DRUG SCREENING EXPERT

CP-809101 hydrochloride

Chemical Properties



CAS No.:	1215721-40-6
Formula:	C15H18Cl2N4O
Molecular Weight:	341.24
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	CP-809101 hydrochloride is a potent and selective 5-HT2C receptor agonist (pEC50: 9.96/7.19/6.81 for human 5-HT2C/5-HT2B/5-HT2A receptors).
Targets(IC_{50})	Others: None
In vitro	CP-809101 is a potent, functionally selective 5-HT2C agonist that displays approximately 100% efficacy in vitro.
In vivo	Similar to currently available antipsychotic drugs, CP-809101 dose-dependently inhibited conditioned avoidance responding (CAR, ED50 = 4.8 mg/kg, sc). CP-809101 antagonized both PCP- and d-amphetamine-induced hyperactivity with ED50 values of 2.4 and 2.9 mg/kg (sc), respectively, and also reversed an apomorphine induced-deficit in prepulse inhibition. At doses up to 56 mg/kg, CP-809101 did not produce catalepsy. CP-809101 was inactive in two animal models of antidepressant-like activity, the forced swim test, and learned helplessness.

Solubility Information

Solubility	H2O: 20 mg/mL (58.61 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.93 mL	14.652 mL	29.305 mL
5 mM	0.586 mL	2.93 mL	5.861 mL
10 mM	0.293 mL	1.465 mL	2.93 mL
50 mM	0.059 mL	0.293 mL	0.586 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Higgins GA, Silenieks LB, Lau W, et al. Evaluation of chemically diverse 5-HT2C receptor agonists on behaviours motivated by food and nicotine and on side effect profiles. Psychopharmacology (Berl). 2013 Apr;226(3):475-90.
2. Strong PV, Christianson JP, Loughridge AB, et al. 5-hydroxytryptamine 2C receptors in the dorsal striatum mediate stress-induced interference with negatively reinforced instrumental escape behavior. Neuroscience. 2011 Dec 1;197:132-44. doi: 10.1016/j.neuroscience.2011.09.041. Epub 2011 Sep 24.
3. Fletcher PJ, Tampakeras M, Sinyard J et al. Characterizing the effects of 5-HT(2C) receptor ligands on motor activity and feeding behaviour in 5-HT(2C) receptor knockout mice. Neuropharmacology. 2009 Sep;57(3):259-67. doi: 10.1016/j.neuropharm.2009.05.011.
4. Siuciak JA, Chapin DS, McCarthy SA, et al. CP-809,101, a selective 5-HT2C agonist, shows activity in animal models of antipsychotic activity. Neuropharmacology. 2007 Feb;52(2):279-90.

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