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产品名称：CP-809101 (hydrochloride)
产品别名：CP-809101 hydrochloride

生物活性：

Description

CP-809101 hydrochloride is a potent and selective 5-HT2C receptor agonist with pEC50 of 9.96/7.19/6.81 for human 5-HT2C/5-HT2B/5-HT2A receptors respectively. IC50 Value: 9.96(pEC50 for 5-HT2C); 7.19(pEC50 for 5-HT2B); 6.81(pEC50 for 5-HT2A) Target: 5-HT2C Receptor CP-809101 is a potent, functionally selective 5-HT2C agonist that displays approximately 100% efficacy in vitro. The aim of the present studies was to assess the efficacy of a selective 5-HT2C agonist in animal models predictive of antipsychotic-like efficacy and side-effect liability. 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. Thus, the present results demonstrate that the 5-HT2C agonist, CP-809101, has a pharmacological profile similar to that of the atypical antipsychotics with low extrapyramidal symptom liability. CP-809101 was inactive in two animal models of antidepressant-like activity, the forced swim test and learned helplessness.

Solvent&Solubility

In Vitro:

H_2O : 20 mg/mL (58.61 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9305 mL	14.6524 mL	29.3049 mL
	5 mM	0.5861 mL	2.9305 mL	5.8610 mL
	10 mM	0.2930 mL	1.4652 mL	2.9305 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

References

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[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.