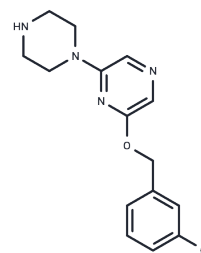


CP-809101

Chemical Properties

CAS No. : 479683-64-2
Formula: C₁₅H₁₇ClN₄O
Molecular Weight: 304.77
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	CP-809101 is an effective and selective 5-HT _{2C} receptor agonist (pEC ₅₀ : 9.96/7.19/6.81 for human 5-HT _{2C} /5-HT _{2B} /5-HT _{2A} receptors).
Targets(IC ₅₀)	5-HT Receptor
In vitro	Similar to currently available antipsychotic drugs, CP-809101 dose-dependently inhibited conditioned avoidance responding (CAR, ED ₅₀ = 4.8 mg/kg, sc). CP-809101 antagonized both PCP- and d-amphetamine-induced hyperactivity with ED ₅₀ 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-HT _{2C} agonist, CP-809101, has a pharmacological profile similar to that of the atypical antipsychotics with low extrapyramidal symptom liability.

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2812 mL	16.4058 mL	32.8116 mL
5 mM	0.6562 mL	3.2812 mL	6.5623 mL
10 mM	0.3281 mL	1.6406 mL	3.2812 mL
50 mM	0.0656 mL	0.3281 mL	0.6562 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Higgins GA, Sileniaks LB, Lau W, et al. Evaluation of chemically diverse 5-HT_{2C} receptor agonists on behaviours motivated by food and nicotine and on side effect profiles. *Psychopharmacology (Berl)*. 2013 Apr;226(3):475-90.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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