

CP-809101

Catalog No: tcsc1201



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

479683-64-2

Formula:

$C_{15}H_{17}ClN_4O$

Pathway:

Neuronal Signaling;GPCR/G Protein

Target:

5-HT Receptor;5-HT Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

304.77

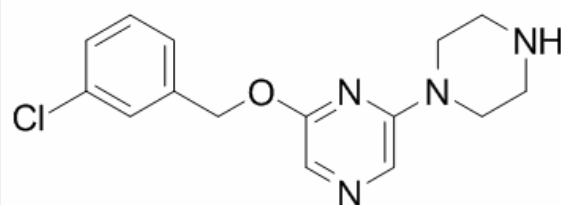
Product Description

CP-809101 is a potent and selective 5-HT_{2C} receptor agonist with pEC₅₀ of 9.96/7.19/6.81 for human 5-HT_{2C}/5-HT_{2B}/5-HT_{2A} receptors respectively.

IC₅₀ Value: 9.96(pEC₅₀ for 5-HT_{2C}); 7.19(pEC₅₀ for 5-HT_{2B}); 6.81(pEC₅₀ for 5-HT_{2A})

Target: 5-HT_{2C} Receptor

CP-809101 is a potent, functionally selective 5-HT_{2C} agonist that displays approximately 100% efficacy in vitro. The aim of the present studies was to assess the efficacy of a selective 5-HT_{2C} 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-HT_{2C} 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.



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