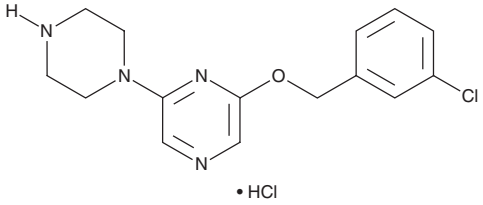
PRODUCT INFORMATION

CP 809,101 (hydrochloride)

Item No. 33283

CAS Registry No.:	1215721-40-6
Formal Name:	2-[(3-chlorophenyl)methoxy]-6-(1-piperazinyl)-pyrazine, monohydrochloride
MF:	$C_{15}H_{17}ClN_4O \bullet HCl$
FW:	341.2
Purity:	≥95%
UV/Vis.:	λ_{max}: 248, 326 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

CP 809,101 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the CP 809,101 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. CP 809,101 (hydrochloride) is soluble in the organic solvent DMSO. It is also soluble in water. The solubility of CP 809,101 (hydrochloride) in DMSO and water is approximately 100 and 20 mM, respectively. We do not recommend storing the aqueous solution for more than one day.

Description

CP 809,101 is a potent agonist of the serotonin (5-HT) receptor subtype 5-HT_{2C}.[1] It is selective for human 5-HT_{2C} and rat 5-HT_{2C} over human 5-HT_{2A}, 5-HT_{2B}, and rat 5-HT_{2A} receptors in a FLIPR membrane potential assay (EC_{50}s = 0.11, 0.06, 153, 65.3, and 119 nM, respectively) as well as human dopamine D_2, histamine H_1, and α_1- and α_2-adrenergic receptors (K_is = 872, 828, 217, and 956 nM, respectively). CP 809,101 inhibits the conditioned avoidance response, hyperactivity induced by PCP and D-amphetamine, and spontaneous locomotor activity in rats (ED_{50}s = 4.8, 2.4, 2.9, and 2 mg/kg, respectively). It reduces prepulse inhibition deficits induced by apomorphine and improves novel object recognition in mice. CP 809,101 (0.01-1 µg/0.2 µl/side) reduces reinstatement of drug-seeking behavior in cocaine-primed rats when administered into the central amygdala but not the basolateral amygdala.[2] It also reduces reinstatement of food-seeking behavior in a rat model of dietary relapse.[3]

References

1. Siuciak, J.A., Chapin, D.S., McCarthy, S.A., *et al.* CP-809,101, a selective 5-HT_{2C} agonist, shows activity in animal models of antipsychotic activity. *Neuropharmacology* **52(2)**, 279-290 (2007).
2. Pockros-Burgess, L.A., Pentkowski, N.S., Der-Ghazarian, T., *et al.* Effects of the 5-HT_{2C} receptor agonist CP809101 in the amygdala on reinstatement of cocaine-seeking behavior and anxiety-like behavior. *Int. J. Neuropsychopharmacol.* **17(11)**, 1751-1762 (2014).
3. Higgins, G.A., Silenieks, L.B., Altherr, E.B., *et al.* Lorcaserin and CP-809101 reduce motor impulsivity and reinstatement of food seeking behavior in male rats: Implications for understanding the anti-obesity property of 5-HT_{2C} receptor agonists. *Psychopharmacology (Berl)* **233(14)**, 2841-2856 (2016).

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