Org-12962 hydrochloride

Cat. No.: HY-21994

CAS No.: 210821-63-9

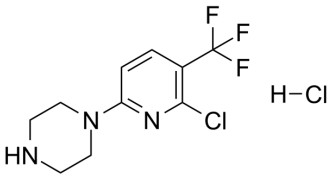
Molecular Formula: $C_{10}H_{12}Cl_2F_3N_3$

Molecular Weight: 302.12

Target: 5-HT Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Org 12962 hydrochloride is a potent, selective and efficacious 5-HT_{2C} receptor agonist and exhibits pEC_{50} values of 7.01, 6.38 and 6.28 for 5-HT_{2C}, 5-HT_{2A} and 5-HT_{2A}, respectively. Org 12962 hydrochloride is effective in panic-like anxiety animal model [2].		
IC_{50} & Target	5-HT_{2C} Receptor 7.01 (pEC50)	5-HT_{2A} Receptor 6.38 (pEC50)	5-HT_{2B} Receptor 6.28 (pEC50)
In Vivo	Org 12962 (intraperitoneal injection; 0.3 mg/kg, 1 mg/kg, and 3.2 mg/kg) displays antiaversive effects in a rat model of panic-like anxiety, it increases the postinjection frequency thresholds for self-interruption ($F_{3,71}$=11.40). The dose of 0.3 mg/kg ip is not significantly active, that the dose of 1 mg/kg is marginally active and that 3.2 mg/kg ip induced highly significant antiaversive effects[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

Animal Model:	Male Wistar rats[3]
Dosage:	0.3 mg/kg, 1 mg/kg, and 3.2 mg/kg
Administration:	Intraperitoneal injection; 0.3 mg/kg, 1 mg/kg, and 3.2 mg/kg
Result:	Had a dose-related antipanic-like effect in SD-rat.

REFERENCES

[1]. Porter RH,et al. Functional characterization of agonists at recombinant human 5-HT2A, 5-HT2B and 5-HT2C receptors in CHO-K1 cells.Br J Pharmacol. 1999 Sep;128(1):13-20.

[2]. Jenck F, et al. Antiaversive effects of 5HT2C receptor agonists and fluoxetine in a model of panic-like anxiety in rats.Eur Neuropsychopharmacol. 1998 Aug;8(3):161-8.

[3]. Faassen F, et al. Caco-2 permeability, P-glycoprotein transport ratios and brain penetration of heterocyclic drugs.Int J Pharm. 2003 Sep 16;263(1-2):113-22.

Caution: Product has not been fully validated for medical applications. For research use only.

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