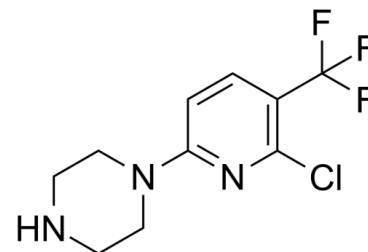


Data Sheet

Product Name:	Org-12962
Cat. No.:	CS-0065306
CAS No.:	132834-56-1
Molecular Formula:	C ₁₀ H ₁₁ ClF ₃ N ₃
Molecular Weight:	265.66
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	DMSO : 250 mg/mL (941.05 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Org-12962 is a potent, selective and orally active **5-HT_{2C} receptor** agonist with a **pEC₅₀** value of 7.01. Org-12962 also exhibits high efficacy for the 5-HT_{2A} and 5-HT_{2B} receptor with **pEC₅₀s** of 6.38 and 6.28, respectively^{[1][3]}. Org-12962 displays antiaversive effects in a rat model of panic-like anxiety^[2]. **In Vivo:** Org-12962 (intraperitoneal injection; 0.3-3.2 mg/kg) significantly increases the postinjection frequency thresholds for self-interruption (F_{3,71}=11.40). Org-12962 is dissolved or microsuspended in 0.3% v/v Tween 80 in physiological saline (NaCl 0.9%)^[1].

References:

[1]. Porter RH, et al. Functional characterization of agonists at recombinant human 5-HT_{2A}, 5-HT_{2B} and 5-HT_{2C} receptors in CHO-K1 cells. *Br J Pharmacol*. 1999 Sep;128(1):13-20.

[2]. Jenck F, et al. Antiaversive effects of 5HT_{2C} 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.

CAIndexNames:

Piperazine, 1-[6-chloro-5-(trifluoromethyl)-2-pyridinyl]-

SMILES:

FC(F)(F)C1=C(N=C(C=C1)N2CCNCC2)Cl

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

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