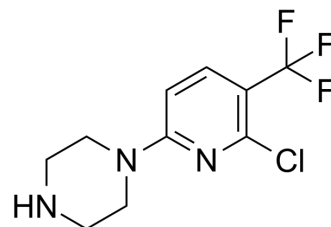


Org-12962

Cat. No.:	HY-118152		
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		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (941.05 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.7642 mL	18.8210 mL	37.6421 mL
		5 mM	0.7528 mL	3.7642 mL	7.5284 mL
10 mM		0.3764 mL	1.8821 mL	3.7642 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.17 mg/mL (8.17 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.17 mg/mL (8.17 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.17 mg/mL (8.17 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Org-12962 is a potent, selective and orally active 5-HT _{2C} receptor agonist with a pEC ₅₀ value of 7.01. Org-12962 also exhibits high efficacy for the 5-HT _{2A} and 5-HT _{2B} receptor with pEC ₅₀ s of 6.38 and 6.28, respectively ^{[1][3]} . Org-12962 displays antiaversive effects in a rat model of panic-like anxiety ^[2] .		
IC ₅₀ & Target	5-HT _{2C} Receptor 7.01 (pEC ₅₀)	5-HT _{2A} Receptor 6.38 (pEC ₅₀)	5-HT _{2B} Receptor 6.28 (pEC ₅₀)

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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats ^[2]
Dosage:	0.3 mg/kg, 1 mg/kg, 3.2 mg/kg
Administration:	Intraperitoneal injection; 0.3-3.2 mg/kg
Result:	Induced a dose-related antipanic-like effect.

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.

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

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