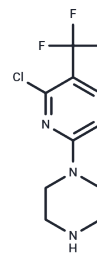


Org-12962

## Chemical Properties

CAS No. : 132834-56-1  
 Formula: C<sub>10</sub>H<sub>11</sub>ClF<sub>3</sub>N<sub>3</sub>  
 Molecular Weight: 265.66  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Org-12962 is an effective and selective 5-HT <sub>2C</sub> receptor agonist pEC <sub>50</sub> : 7.01). Org-12962 shows antiaversive effects in a rat model of panic-like anxiety. Org-12962 also shows high efficacy for the 5-HT <sub>2A</sub> and 5-HT <sub>2B</sub> receptors (pEC <sub>50</sub> s: 6.38 and 6.28, respectively).
Targets(IC <sub>50</sub> )	5-HT Receptor
In vivo	Org-12962 is dissolved or microsuspended in 0.3% v/v Tween 80 in physiological saline (NaCl 0.9%). Org-12962 (intraperitoneal injection; 0.3-3.2 mg/kg) obviously enhances the postinjection frequency thresholds for self-interruption (F <sub>3.71</sub> =11.40) [1].

## Solubility Information

Solubility	DMSO: 225 mg/mL (846.95 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (18.82 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.7642 mL	18.821 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
50 mM	0.0753 mL	0.3764 mL	0.7528 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Porter RH, et al. Functional characterization of agonists at recombinant human 5-HT<sub>2A</sub>, 5-HT<sub>2B</sub> and 5-HT<sub>2C</sub> receptors in CHO-K1 cells. *Br J Pharmacol.* 1999 Sep;128(1):13-20.

Jenck F, et al. Antiaversive effects of 5HT<sub>2C</sub> receptor agonists and fluoxetine in a model of panic-like anxiety in rats. *Eur Neuropsychopharmacol.* 1998 Aug;8(3):161-8.

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.

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