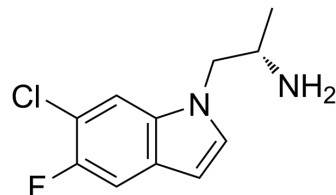


Ro60-0175

Cat. No.:	HY-123838
CAS No.:	169675-08-5
Molecular Formula:	C ₁₁ H ₁₂ ClFN ₂
Molecular Weight:	226.68
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (551.44 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg
				5 mg
				10 mg
				10 mg
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: ≥ 2.08 mg/mL (9.18 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (9.18 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (9.18 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Ro60-0175 is a potent and selective agonist of 5-HT _{2C} receptor. Ro60-0175 reduces self-administration ^[1] .
IC ₅₀ & Target	5-HT _{2C} Receptor
In Vivo	Ro60-0175 (1 mg/kg; s.c.) preserves the regularity of responding seen in control animals in drug-treated group, but drug-treated animals reach their break-points earlier ^[1] . Ro60-0175 (0.3, 1, and 3 mg/kg; s.c.) significantly reduces responding on the active lever in the reinstatement group ^[1] . Ro60-0175 (0.5 mg/kg SB242084; 1 mg/kg Ro60-0175; s.c.; i.p.) reduces responding compared to vehicle in the reinstatement group, and that this effect is prevented by pretreatment with SB242084. For responding on the inactive lever, there are no

significant main effects or interactions^[1].

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

Animal Model:	Adult male Sprague-Dawley rats (280-320 g) ^[1]
Dosage:	1 mg/kg
Administration:	s.c.
Result:	Preserved the regularity of responding seen in control animals in drug-treated group, but drug-treated animals reached their break-points earlier.

Animal Model:	Adult male Sprague-Dawley rats (280-320 g) ^[1]
Dosage:	0.5 mg/kg (SB242084), 1 mg/kg (Ro60-0175)
Administration:	s.c. (Ro60-0175), i.p. (SB242084)
Result:	Reduced responding for cocaine and effect was reversed by SB242084.

Animal Model:	Adult male Sprague-Dawley rats (280-320 g) ^[1]
Dosage:	0.3, 1, and 3 mg/kg (Ro60-0175), 1 mg/kg (yohimbine)
Administration:	s.c. (Ro60-0175), i.p. (yohimbine)
Result:	Showed yohimbine treatment alone increased responding relative to vehicle injection, and the response was attenuated dose dependently by Ro60-0175.

Animal Model:	Adult male Sprague-Dawley rats (280-320 g) ^[1]
Dosage:	0.5 mg/kg (SB242084), 1 mg/kg (Ro60-0175), 1 mg/kg (yohimbine)
Administration:	s.c. (Ro60-0175), i.p. (yohimbine), i.p. (SB242084)
Result:	Ro60-0175 reduced responding and that this effect was prevented by SB242084 pretreatment.

REFERENCES

[1]. Fletcher PJ, et al. The 5-HT_{2C} receptor agonist Ro60-0175 reduces cocaine self-administration and reinstatement induced by the stressor yohimbine, and contextual cues. *Neuropsychopharmacology*. 2008;33(6):1402-1412.

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

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