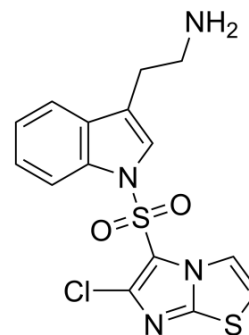


WAY-181187

Cat. No.:	HY-14340		
CAS No.:	554403-49-5		
Molecular Formula:	C ₁₅ H ₁₃ ClN ₄ O ₂ S ₂		
Molecular Weight:	380.87		
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



BIOLOGICAL ACTIVITY

Description	WAY-181187 (SAX-187) is a potent and selective full 5-HT ₆ receptor agonist with a K _i of 2.2 nM and an EC ₅₀ of 6.6 nM ^[1] . WAY181187 mediates 5-HT ₆ receptor-dependent signal pathways, such as cAMP, Fyn and ERK1/2 kinase, as specific agonist [2].	
IC₅₀ & Target	5-HT ₆ Receptor 2.2 nM (K _i)	5-HT ₆ Receptor 6.6 nM (EC ₅₀)
In Vitro	WAY181187 (1 and 10 μM) increases activation of ERK1/2. WAY181187 also increases Fyn kinase activity ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Western Blot Analysis ^[2]	
	Cell Line:	HEK/HA-5-HT ₆ receptor cells
	Concentration:	1 and 10 μM
	Incubation Time:	Pretreatment 5 minutes
Result:	Increased activation of ERK1/2 both at 1 and 10 μM concentrations.	
In Vivo	Acute administration of WAY-181187 (3-30 mg/kg, s.c.) significantly increases extracellular GABA concentrations without altering the levels of glutamate or norepinephrine in the rat frontal cortex. Additionally, WAY-181187 (30 mg/kg, s.c.) produces modest yet significant decreases in cortical dopamine and 5-HT levels ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Adult male Sprague-Dawley rats weighing 280–350 g ^[1]
	Dosage:	3, 10, or 30 mg/kg
	Administration:	Acute administered by s.c.
	Result:	Significantly increased extracellular GABA concentrations without altering the levels of

glutamate or norepinephrine.

REFERENCES

- [1]. Lee E Schechter, et al. Neuropharmacological Profile of Novel and Selective 5-HT₆ Receptor Agonists: WAY-181187 and WAY-208466. *Neuropsychopharmacology*. 2008 May;33(6):1323-35.
- [2]. Teresa Riccioni, et al. ST1936 Stimulates cAMP, Ca²⁺, ERK1/2 and Fyn Kinase Through a Full Activation of Cloned Human 5-HT₆ Receptors. *Eur J Pharmacol*. 2011 Jul 1;661(1-3):8-14.
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Caution: Product has not been fully validated for medical applications. For research use only.

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