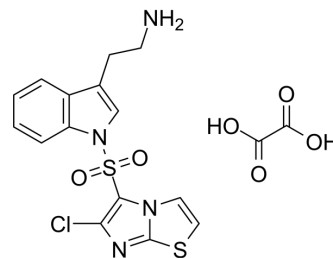


WAY-181187 oxalate

Cat. No.:	HY-110366
CAS No.:	1883548-85-3
Molecular Formula:	C ₁₇ H ₁₅ ClN ₄ O ₆ S ₂
Molecular Weight:	470.91
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	WAY-181187 (SAX-187) oxalate 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. WAY-181187 oxalate mediates 5-HT ₆ receptor-dependent signal pathways, such as cAMP, Fyn and ERK1/2 kinase, as specific agonist ^{[1][2]} .	
IC₅₀ & Target	5-HT ₆ Receptor 2.2 nM (K _i)	5-HT ₆ Receptor 6.6 nM (EC ₅₀)
In Vitro	WAY-181187 (SAX-187) oxalate (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.	
In Vivo	Acute administration of WAY-181187 (SAX-187) oxalate (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 oxalate (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.	

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.

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

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