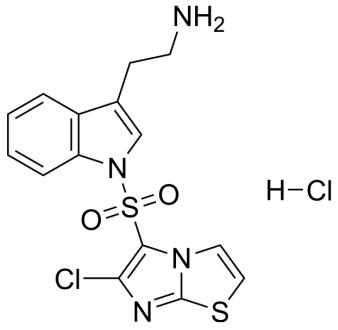
WAY-181187 hydrochloride

Cat. No.:	HY-W746031
CAS No.:	554403-08-6
Molecular Formula:	$C_{15}H_{14}Cl_2N_4O_2S_2$
Molecular Weight:	417.33
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) hydrochloride is a potent and selective full 5-HT6 receptor agonist with a K_i of 2.2 nM and an EC_{50} of 6.6 nM[1]. WAY-181187 hydrochloride mediates 5-HT6 receptor-dependent signal pathways, such as cAMP, Fyn and ERK1/2 kinase, as specific agonist[2].

IC_{50} & Target	5-HT_6 Receptor 2.2 nM (Ki)	5-HT_6 Receptor 6.6 nM (EC50)

In Vitro	WAY-181187 (1 and 10 μM) hydrochloride increases activation of ERK1/2. WAY-181187 hydrochloride 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 (3-30 mg/kg, s.c.) hydrochloride 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.) hydrochloride 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 dministered 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.

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

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