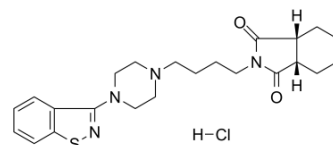


Perospirone hydrochloride

Cat. No.:	HY-B0731
CAS No.:	129273-38-7
Molecular Formula:	C ₂₃ H ₃₁ ClN ₄ O ₂ S
Molecular Weight:	463.04
Target:	5-HT Receptor; Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Perospirone hydrochloride (SM-9018) is an orally active antagonist of 5-HT _{2A} receptor (K _i of 0.6 nM) and dopamine D ₂ receptor (K _i of 1.4 nM). Perospirone hydrochloride is also a partial agonist of 5-HT _{1A} receptor (K _i of 2.9 nM). Perospirone hydrochloride is an atypical antipsychotic agent and has the potential for schizophrenic disease research ^{[1][2]} .			
IC₅₀ & Target	5-HT _{2A} Receptor 0.6 nM (K _i)	D ₂ Receptor 1.4 nM (K _i)	5-HT _{1A} Receptor 2.9 nM (K _i)	5-HT ₁ Receptor 18 nM (K _i)
	D ₁ Receptor 41 nM (K _i)			

REFERENCES

[1]. Kato T, et al. Binding profile of SM-9018, a novel antipsychotic candidate. *pn J Pharmacol.* 1990 Dec;54(4):478-81.

[2]. Hagiwara H, et al. Phencyclidine-induced cognitive deficits in mice are improved by subsequent subchronic administration of the antipsychotic drug perospirone: role of serotonin 5-HT_{1A} receptors. *Eur Neuropsychopharmacol.* 2008 Jun;18(6):448-54.

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

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