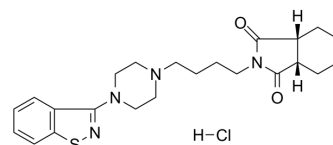


Perospirone hydrochloride

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:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (269.96 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.1596 mL	10.7982 mL	21.5964 mL	
5 mM	0.4319 mL	2.1596 mL	4.3193 mL	
10 mM	0.2160 mL	1.0798 mL	2.1596 mL	

Please refer to the solubility information to select the appropriate solvent.

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 D₂ 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

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

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