## Perospirone

Cat. No.:	HY-B0731A		
CAS No.:	150915-41-6		
Molecular Formula:	C <sub>23</sub> H <sub>30</sub> N <sub>4</sub> O <sub>2</sub> S		
Molecular Weight:	426.57		
Target:	5-HT Receptor; Dopamine Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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## SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg	
Pre	Preparing Stock Solutions	1 mM	2.3443 mL	11.7214 mL	23.4428 mL
Stock Solutions	5 mM	0.4689 mL	2.3443 mL	4.6886 mL	
		10 mM	0.2344 mL	1.1721 mL	2.3443 mL

BIOLOGICAL ACTIV	YITY			
Description		gonist of 5-HT <sub>1A</sub> receptor (K <sub>i</sub> =2.9	of 5-HT <sub>2A</sub> receptor (K <sub>i</sub> =0.6 nM) an nM). Perospirone is an atypical ar	
IC <sub>50</sub> & Target	5-HT <sub>2A</sub> Receptor 0.6 nM (Ki) Dopamine D <sub>1</sub> 41 nM (Ki)	Dopamine D <sub>2</sub> 1.4 nM (Ki)	5-HT <sub>1A</sub> Receptor 2.9 nM (Ki)	5-HT <sub>1</sub> Receptor 18 nM (Ki)
In Vitro	respectively) <sup>[1]</sup> .		s for $\alpha_1$ , 5-HT <sub>1</sub> , and D <sub>1</sub> receptors ( nethods. They are for reference of	
In Vivo	Perospirone (SM-9018 free ba	se; 1.0-10.0 mg/kg/day; orally; fc	r 14 consecutive days) significant	tly attenuates PCP-induced

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	<b>ce in a dose-dependent manner<sup>[2]</sup>.</b> ently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Male ICR mice (6 weeks old) weighing 25-30 g <sup>[2]</sup>
Dosage:	1.0, 3.0 or 10.0 mg/kg
Administration:	Orally; daily; for 14 consecutive days
Result:	Significantly attenuated PCP-induced cognitive deficits in mice in a dose-dependent manner.

## 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-HT1A 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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