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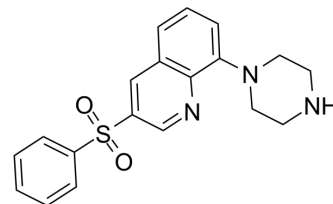
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Intepirdine

Cat. No.:	HY-14339		
CAS No.:	607742-69-8		
Molecular Formula:	C ₁₉ H ₁₉ N ₃ O ₂ S		
Molecular Weight:	353.44		
Target:	5-HT 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



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (141.47 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.8293 mL	14.1467 mL	28.2933 mL
		5 mM	0.5659 mL	2.8293 mL	5.6587 mL
		10 mM	0.2829 mL	1.4147 mL	2.8293 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Intepirdine (SB742457) is a highly selective 5-HT ₆ receptor antagonist with pKi of 9.63; exhibits >100-fold selectivity over other receptors.
IC ₅₀ & Target	5-HT ₆ Receptor 9.63 (pKi)
In Vitro	Intepirdine (SB742457), a 5-HT ₆ receptor antagonist, which extends into Alzheimer disease (AD) sufferers further highlights the therapeutic promise of this mechanistic approach. Alzheimer's disease is a devastating neurological condition characterized by a progressive decline in cognitive performance accompanied by behavioral and psychological syndromes, such as depression and psychosis. With the subsequent development of selective 5-HT ₆ receptor antagonists, preclinical

studies in rodents and primates have elucidated the function of this receptor subtype in more detail. It is increasingly clear that blockade of 5-HT₆ receptors leads to an improvement of cognitive performance in a wide variety of learning and memory paradigms and also results in anxiolytic and antidepressant-like activity. Intepirdine (SB742457) is generally safe and well tolerated and may be efficacious in Alzheimer disease.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Protein Cell. 2019 Mar;10(3):178-195.
- EMBO Rep. 2022 Apr 11;e53932.

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REFERENCES

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- [3]. Maher-Edwards G, Dixon R, Hunter J, et al. SB-742457 and donepezil in Alzheimer disease: a randomized, placebo-controlled study. *Int J Geriatr Psychiatry*. 2011 May;26(5):536-44.
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- [5]. Upton N, Chuang TT, Hunter AJ, Virley DJ. 5-HT₆ receptor antagonists as novel cognitive enhancing agents for Alzheimer's disease. *Neurotherapeutics*. 2008 Jul;5(3):458-69.
- [6]. SB-742457

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

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