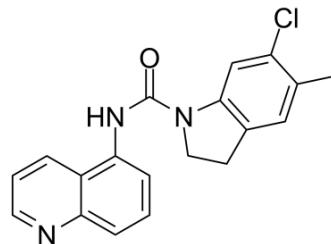


SB-215505

Cat. No.:	HY-18596
CAS No.:	162100-15-4
Molecular Formula:	C ₁₉ H ₁₆ ClN ₃ O
Molecular Weight:	337.8
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	SB-215505 is a potent and subtype-selective 5-HT _{2B} receptor antagonist with pK _i values of 8.3, 6.77, 7.66 for 5-HT _{2B} , 5-HT _{2A} , 5-HT _{2C} , respectively ^[1] . SB-215505 increases wakefulness and motor activity in rats ^[2] .		
IC₅₀ & Target	5-HT _{2B} Receptor 8.3 (pKi)	5-HT _{2A} Receptor 6.77 (pKi)	5-HT _{2C} Receptor 7.66 (pKi)
In Vitro	SB-215505 is 30 fold selective for the 5-HT _{2B} over the 5-HT _{2A} receptor, and only marginally selective over the 5-HT _{2C} receptor ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	SB-215505 (0.1-1.0 mg/kg; i.p.; two doses) dose-dependently increases wakefulness (W) and decreases IS, PS, SWS-2 ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Male Sprague-Dawley rats weighing 230-260 g ^[2]	
	Dosage:	0.1, 0.3 and 1.0 mg/kg	
	Administration:	IP; two doses (4 days between two doses)	
	Result:	Dose-dependently increased wakefulness (W) and decreased intermediate stage of sleep (IS), paradoxical sleep (PS), SWS-2.	

REFERENCES

[1]. C Reavill, et al. Attenuation of haloperidol-induced catalepsy by a 5-HT_{2C} receptor antagonist. Br J Pharmacol. 1999 Feb;126(3):572-4.

[2]. Sandor Kantor, et al. Increased wakefulness, motor activity and decreased theta activity after blockade of the 5-HT_{2B} receptor by the subtype-selective antagonist SB-215505. J Pharmacol. 2004 Aug;142(8):1332-42.

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

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