3-Hydroxy agomelatine

MedChemExpress

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Cat. No.:	HY-133111		
CAS No.:	166526-99-4	4	
Molecular Formula:	C ₁₅ H ₁₇ NO ₃		
Molecular Weight:	259.3		
Target:	5-HT Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

Preparing Stock Solutions Please refer to the so		Mass Solvent Concentration	1 mg	5 mg	10 mg		
		1 mM	3.8565 mL	19.2827 mL	38.5654 mL		
		5 mM	0.7713 mL	3.8565 mL	7.7131 mL		
	10 mM	0.3857 mL	1.9283 mL	3.8565 mL			
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.					
ı Vivo		ent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline 08 mg/mL (8.02 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.02 mM); Clear solution					

BIOLOGICAL ACTIVITY			
Description	3-Hydroxy agomelatine is a metabolite of Agomelatine. 3-Hydroxy agomelatine is a 5-HT _{2C} receptor antagonist with an IC ₅₀ of 3.2 μ M and a K _i of 1.8 μ M ^[1] .		
IC₅₀ & Target	5-HT _{2C} Receptor 3.2 μΜ (IC ₅₀)	5-HT _{2C} Receptor 1.8 μΜ (Ki)	
In Vitro	Agomelatine and S 21517 have moderately high affinities for 5-HT _{2C} receptors (K _i = 0.21 μM and 0.13 μM, respectively). The metabolite 3-Hydroxy agomelatine (S 21540) has a 10-fold lower affinity (K _i = 1.8 μM). Agomelatine, S 21517 and 3-Hydroxy agomelatine (10 ⁻⁷ -10 ⁻⁴ M) are antagonists at 5-HT _{2C} receptors, with a rank order of efficacy as follows: S 21517>Agomelatine>3-Hydroxy agomelatine ^[1] .		

Product Data Sheet

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	MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Increasing doses (from 1.25 to 40 mg/kg, intraperitoneal injection) of 3-Hydroxy agomelatine (S 21540) does not affect the penile erections induced by mCPP and Ro 60-0175 in Wistar rat ^[1] .
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chagraoui A, et al. Agomelatine(S 20098) antagonizes the penile erections induced by the stimulation of 5-HT2C receptors in Wistar rats. Psychopharmacology (Berl). 2003 Oct;170(1):17-22.

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

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