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Zuschläge

- Mindermengenzuschlag
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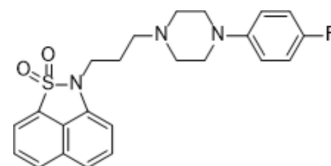
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Fananserin

Cat. No.:	HY-103104		
CAS No.:	127625-29-0		
Molecular Formula:	C ₂₃ H ₂₄ FN ₃ O ₂ S		
Molecular Weight:	425.52		
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	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (235.01 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.3501 mL	11.7503 mL	23.5007 mL
		5 mM	0.4700 mL	2.3501 mL	4.7001 mL
		10 mM	0.2350 mL	1.1750 mL	2.3501 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.88 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.88 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Fananserin (RP 62203) is an orally bioavailable, potent and selective 5-hydroxytryptamine ₂ (5-HT ₂) receptor antagonist, with a K _i of 0.37 nM for the rat 5-HT _{2A} receptor. Fananserin also is a selective dopamine D ₄ receptor antagonist, with a K _i of 2.93 nM for the human dopamine D ₄ receptor ^[1] .	
IC ₅₀ & Target	5-HT ₂ Receptor 0.37 nM (K _i)	D ₄ Receptor 2.93 nM (K _i)
In Vitro	Fananserin is relatively selective for 5-HT ₂ receptor, having lower affinity for the 5-HT _{1A} receptor and very low affinity for the 5-HT ₃ receptor ^[1] . Fananserin displaces [³ H]spiperone binding to recombinant human dopamine D ₄ receptors with a K _i of 2.93 nM ^[1] .	

RP 62203 displays low to moderate affinity for α 1-adrenoceptors, dopamine D2 receptors and histamine H₁ receptors^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Fananserin displaces [¹²⁵I]AMIK from 5-HT₂ receptors with an IC₅₀ of 0.21 nM in rat frontal cortex^[2].
Fananserin shows moderate affinity for alpha 1-adrenoceptors in the rat thalamus (IC₅₀ = 14 nM) and for histamine H₁ receptors in the guinea-pig cerebellum (IC₅₀ = 13 nM)^[2].
Fananserin (0.5-4 mg/kg; p.o.) increases the duration of deep nonrapid eye movement (NREM) sleep at the expense of wakefulness in a dose-dependent manner^[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Adult male Sprague Dawley rats (250-300 g) ^[3]
Dosage:	0.5 mg/kg, 1 mg/kg, 2 mg/kg, 4 mg/kg
Administration:	Oral administration
Result:	Increased the duration of deep nonrapid eye movement (NREM) sleep at the expense of wakefulness in a dose-dependent manner from 0.5 mg/kg.

REFERENCES

- [1]. Heuillet E, et al. The naphtosultam derivative RP 62203 (fananserin) has high affinity for the dopamine D4 receptor. Eur J Pharmacol. 1996 Oct 24;314(1-2):229-33.
- [2]. Malgouris C, et al. Autoradiographic studies of RP 62203, a potent 5-HT₂ receptor antagonist. In vitro and ex vivo selectivity profile. Eur J Pharmacol. 1993 Mar 16;233(1):29-35.
- [3]. Stutzmann JM, et al. RP 62203, a 5-hydroxytryptamine₂ antagonist, enhances deep NREM sleep in rats. Sleep. 1992 Apr;15(2):119-24.

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

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