RU 24969 succinate

MedChemExpress

Cat. No.:	HY-16688A		
CAS No.:	107008-28-	6	
Molecular Formula:	C ₁₈ H ₂₂ N ₂ O ₅		
Molecular Weight:	346.38		
Target:	5-HT Recep	tor	
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

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Pre	Preparing Stock Solutions	1 mM	2.8870 mL	14.4350 mL	28.8700 mL
Stock Solutions	5 mM	0.5774 mL	2.8870 mL	5.7740 mL	
		10 mM	0.2887 mL	1.4435 mL	2.8870 mL

BIOLOGICAL ACTIV	
Description	RU 24969 succinate is a 5-HT receptor agonist with K _i values of 0.38 and 2.5 nM for 5-HT _{1B} and 5-HT _{1A} , respectively. RU 24969 decreases fluid consumption and increases forward locomotion. RU 24969 succinate can be used for the research of neurological disease ^{[1][2][3][4]} .
IC ₅₀ & Target	Ki: 0.38 nM (5-HT1B), 2.5 nM (5-HT1A) ^[3]
In Vitro	RU 24969 succinate (30 nM-1 μM) dose-dependently inhibits K ⁺ evoked efflux of tritium and shows a pD ₂ value of 7.45 for the maximum effect at 1 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	RU 24969 succinate (1 and 3 mg/kg; s.c., once) potentiates addictive agent-induced effects ^[2] . RU 24969 succinate (0.03-3.0 mg/kg; s.c., once) dose-dependently decreases water consumption in water deprived rats ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Product Data Sheet

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Animal Model:	Male Wistar rats with cocaine injection ^[2]
Dosage:	1 and 3 mg/kg
Administration:	Subcutaneous injection; 1 and 3 mg/kg, once
Result:	Increased cocaine-induced elevation of nucleus accumbens (NAcc) dopamine DA levels and reduction of ventral tegmental area (VTA) GABA levels.

CUSTOMER VALIDATION

• Behav Brain Funct. 2021 May 18;17(1):4.

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REFERENCES

[1]. Middlemiss DN. The putative 5-HT1 receptor agonist, RU 24969, inhibits the efflux of 5-hydroxytryptamine from rat frontal cortex slices by stimulation of the 5-HT autoreceptor. J Pharm Pharmacol. 1985 Jun;37(6):434-7.

[2]. Parsons LH, et al. RU 24969, a 5-HT1B/1A receptor agonist, potentiates cocaine-induced increases in nucleus accumbens dopamine. Synapse. 1999 May;32(2):132-5.

[3]. Peroutka SJ. Pharmacological differentiation and characterization of 5-HT1A, 5-HT1B, and 5-HT1C binding sites in rat frontal cortex. J Neurochem. 1986 Aug;47(2):529-40.

[4]. Aronsen D, et al. RU 24969-produced adipsia and hyperlocomotion: differential role of 5HT 1A and 5HT 1B receptor mechanisms. Pharmacol Biochem Behav. 2014 Sep;124:1-4.

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

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