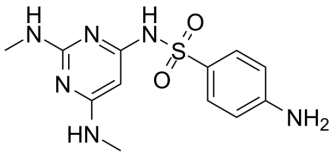
Ro 04-6790

Cat. No.:	HY-14335
CAS No.:	202466-68-0
Molecular Formula:	$C_{12}H_{16}N_6O_2S$
Molecular Weight:	308.36
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	Ro 04-6790 is a potent, competitive and selective 5-HT_6 receptor antagonist with pK_i values of 7.26, 7.35 for rat and human 5-HT6 receptors, respectively. Ro 04-6790 has no affinity at other receptors[1].	
IC_{50} & Target	Rat 5-HT_6 Receptor 7.26 (pKi)	Human 5-HT_6 Receptor 7.35 (pKi)
In Vitro	Ro 04-6790 has over 100 fold selective for the 5-HT_6 receptor compared to other receptor binding sites (IC_{50}>10 μM)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Ro 04-6790 (10 mg/kg, SC) produces a modest (50%) increase in ACh outflow in adult male Wistar rats of 250-300 g (this effect is not statistically different from the action of vehicle)[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. A J Sleight, et al. Characterization of Ro 04-6790 and Ro 63-0563: potent and selective antagonists at human and rat 5-HT6 receptors. Br J Pharmacol. 1998 Jun;124(3):556-62.

[2]. Sudabeh Shirazi-Southall, et al. Effects of typical and atypical antipsychotics and receptor selective compounds on acetylcholine efflux in the hippocampus of the rat. Neuropsychopharmacology. 2002 May;26(5):583-94.

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