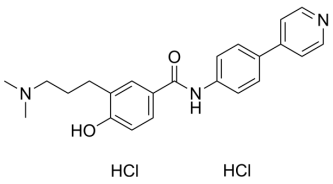
GR 55562 dihydrochloride

Cat. No.:	HY-101367A
CAS No.:	159533-25-2
Molecular Formula:	$C_{23}H_{27}Cl_2N_3O_2$
Molecular Weight:	448.39
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



BIOLOGICAL ACTIVITY

Description

GR 55562 (dihydrochloride) is a selective 5-HT_{1B} receptor antagonist. GR 55562 can be used for the research of nerve disease [1].

In Vivo

GR 55562 (0.1-10 μg/side) into accumbens subregions did not evoke cocaine-lever responding[1].
GR 55562 (0.1-10 μg/side) in the accumbens shell or core failed to modulate the discriminative stimulus effects of cocaine (5 mg/kg)[1].
GR 55562 (1 μg/side) significantly attenuated the enhancement of cocaine discrimination[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats (280-300 g; n=50)[1].
Dosage:	0.1-10 μg/side
Administration:	Injected intracranially; At a volume of 0.2 μl/side
Result:	Did not evoke substitution for the drug with intra-accumbal shell infusion. Did not significantly affect the discriminative stimulus effects produced by 5 mg/kg of cocaine. GR 55562 (1 μg/side) attenuated the enhancement of cocaine discrimination evoked by a combination of intra-accumbal core CP 93129 (1 μg/side) and systemic cocaine (1.25 mg/kg or 2.5 mg/kg).

REFERENCES

[1]. Filip M, et al. Effects of serotonin (5-HT)(1B) receptor ligands, microinjected into accumbens subregions, on cocaine discrimination in rats. Naunyn Schmiedebergs Arch Pharmacol. 2002;366(3):226-234.

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

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