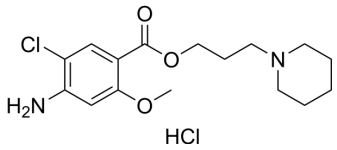
RS 23597-190

Cat. No.:	HY-101172
CAS No.:	149719-06-2
Molecular Formula:	$C_{16}H_{24}Cl_2N_2O_3$
Molecular Weight:	363.28
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	RS 23597-190 (EP-A-501322) is a high affinity and selective 5-HT4 receptor antagonist. RS 23597-190 inhibits 5-HT-induced tachycardia. RS 23597-190 significantly inhibits superoxide production in high glucose[1][2].
IC_{50} & Target	5-HT_4 Receptor
In Vitro	RS 23597-190 (10 μM; 4 days) significantly inhibits superoxide production in high glucose (30 mM) in 661W cells[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	RS 23597-190 (6.0 mg/kg; i.v.) inhibits 5-HT-induced tachycardia in micropig[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Bilaterally vagotomized micropig[1]
Dosage:	6.0 mg/kg
Administration:	I.v.
Result:	Antagonized 5-HT-induced tachycardia with a half-life of 77 (63-99) min.

REFERENCES

[1]. Eglen RM, et al. RS 23597-190: a potent and selective 5-HT4 receptor antagonist. Br J Pharmacol. 1993 Sep;110(1):119-26.

[2]. Du Y, et al. Adrenergic and serotonin receptors affect retinal superoxide generation in diabetic mice: relationship to capillary degeneration and permeability. FASEB J. 2015 May;29(5):2194-204.

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