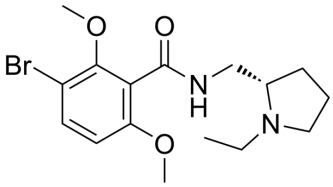
(S)-Remoxipride

Cat. No.:	HY-101313
CAS No.:	80125-14-0
Molecular Formula:	$C_{16}H_{23}BrN_2O_3$
Molecular Weight:	371.27
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

(S)-Remoxipride ((-)-Remoxipride) is a selective dopamine D_2-receptor antagonist with an IC_{50} value of 1.57 μM. (S)-Remoxipride can be used for the research of psychotic disorder[1].

IC_{50} & Target

D_2 Receptor	D_1 Receptor	α_1-Adrenoccptor
1.57 μM (IC_{50})	⊠100 μM (IC_{50})	42 μM (IC_{50})

In Vitro

(S)-Remoxipride (1-100 μM; 20 min) shows binding efficiency with IC_{50}s of ⊠100, 1.57 and 42 μM for dopamine D_1, dopamine D_2 and α_1-Adrenoccptor, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

(S)-Remoxipride (0.1-100 μM/kg; i.p. 60 min prior to apomorphine) blockades apomorphine-induced behaviors s in rats and vomiting in dogs[1].

(S)-Remoxipride (0.1-10 mg/kg; i.p. 30 min prior to apomorphine) displaces [^{3}H]spiperone from both striatal and extra-striatal areas[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague-Dawley rats[1]
Dosage:	0.1-100 μM/kg
Administration:	Intraperitoneal injection; 0.1-100 μM/kg; 60 min prior to apomorphine
Result:	Blocked apomorphine-induced hyperactivity and dose-dependent blockaded apomorphine-induced behaviors in vivo.

Animal Model:	Male and female beagle dogs[1]
Dosage:	0.25-5 μM/kg
Administration:	Oral gavage; 0.25-5 μM/kg; 60 min prior to apomorphine
Result:	Blocked apomorphine-induced vomiting in dogs.

REFERENCES

[1]. Ogren SO, et al. Remoxipride, a new potential antipsychotic compound with selective antidopaminergic actions in the rat brain. Eur J Pharmacol. 1984 Jul 20;102(3-4):459-74.

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

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