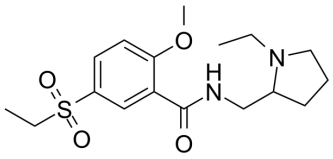
Sultopride

Cat. No.:	HY-42849
CAS No.:	53583-79-2
Molecular Formula:	$C_{17}H_{26}N_2O_4S$
Molecular Weight:	354.46
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	Sultopride (LIN-1418) is a selective antagonist of dopamine D2 receptor.
IC_{50} & Target	Dopamine D2 receptor[1]
In Vivo	Sultopride (LIN-1418) is a selective antagonist of dopamine D2 receptor. DOPAC and HVA levels in the striatum, the nucleus accumbens and the medial prefrontal cortex are higher in the rats treated with Sultopride and sulpiride than those of the controls. In the striatum, DOPAC and HVA levels are higher in the Sultopride-treated rats than the sulpiride-treated rats ($p<0.05$). In the nucleus accumbens, DOPAC levels are higher in the Sultopride-treated rats than sulpiride treated rats ($p<0.05$). In the Sultopride-treated rats, DOPAC and HVA levels are higher in the striatum or in the nucleus accumbens than in the medial prefrontal cortex ($p<0.05$)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration [1]	Thirty-six male Sprague-Dawley rats weighing 180 to 220 g are used in this study. The rats are divided into three groups of 6 each. One group is intraperitoneally injected with Sultopride (100 mg/kg body weight), the second group with sulphide (100 mg/kg body weight), and the third group with normal saline. One hundred minutes after the initial treatments, apomorphine (0.1 mg/kg body weight, dissolved in saline ad libitum) is administered subcutaneously to the three groups, and 20 minutes later the rats are sacrificed. The third group serves as controls[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Acta Pharmacol Sin. 2020 Feb;41(2):173-180.

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REFERENCES

[1]. Moriuchi K, et al. Differences in effects of sultopride and sulpiride on dopamine turnover in rat brain. Neurochem Res. 1995 Jan;20(1):95-9.

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