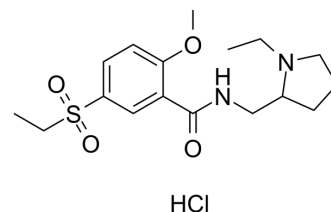


Sultopride hydrochloride

| | |
|---------------------------|--|
| Cat. No.: | HY-42849A |
| CAS No.: | 23694-17-9 |
| Molecular Formula: | C ₁₇ H ₂₇ ClN ₂ O ₄ S |
| Molecular Weight: | 390.93 |
| Target: | Dopamine Receptor |
| Pathway: | GPCR/G Protein; Neuronal Signaling |
| Storage: | 4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



SOLVENT & SOLUBILITY

| | | | | | |
|---|---|--------------------------|--------------|------------|------------|
| In Vitro | H ₂ O : 50 mg/mL (127.90 mM); Need ultrasonic) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 2.5580 mL | 12.7900 mL | 25.5800 mL |
| | | 5 mM | 0.5116 mL | 2.5580 mL | 5.1160 mL |
| | | 10 mM | 0.2558 mL | 1.2790 mL | 2.5580 mL |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | 1. Add each solvent one by one: PBS Solubility: 140 mg/mL (358.12 mM); Clear solution; Need ultrasonic | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | Sultopride hydrochloride (LIN-1418 hydrochloride) is a selective antagonist of dopamine D2 receptor. |
| IC₅₀ & Target | Dopamine D2 receptor ^[1] |
| In Vivo | Sultopride hydrochloride (LIN-1418 hydrochloride) 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 hydrochloride and sulpiride than those of the controls. In the striatum, DOPAC and HVA levels are higher in the Sultopride hydrochloride-treated rats than the sulpiride-treated rats (p<0.05). In the nucleus accumbens, DOPAC levels are higher in the Sultopride hydrochloride-treated rats than sulpiride treated rats (p<0.05). In the Sultopride hydrochloride-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 hydrochloride (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 sulphide on dopamine turnover in rat brain. Neurochem Res. 1995 Jan;20(1):95-9.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA