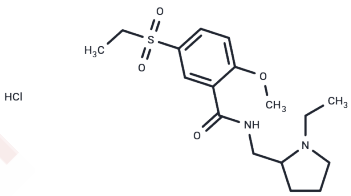
Data Sheet (Cat.No.T7180)

TargetMol

Sultopride hydrochloride

Chemical Properties



CAS No. :	23694-17-9
Formula:	C17H27ClN2O4S
Molecular Weight:	390.93
Storage:	Powder: -20°C for 3 years | In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	Sultopride hydrochloride (LIN-1418 hydrochloride) is a selective antagonist for dopamine D2 and D3 receptors.
Targets(IC50)	Dopamine Receptor
In vivo	Sultopride and sulpiride are both chemically similar benzamide derivatives and selective antagonists of dopamine D2 receptors.?However, these drugs differ in clinical properties.?We compared the effects of sultopride and sulpiride on dopamine turnover in rats following the administration of these drugs alone or in combination with apomorphine.?The administration of sultopride or sulpiride markedly accelerated dopamine turnover in the rat brain.?The increase in the level of dopamine metabolites in the striatum was more marked in the sultopride-treated rats.?Sulpiride affected the limbic dopamine receptors preferentially, whereas sultopride affected the striatal and the limbic dopamine receptors equally.?A low dose of apomorphine induced a reduction in the concentration of dopamine metabolites in the striatum and the nucleus accumbens by approximately 55%, but not in the medial prefrontal cortex.?Sultopride was more effective in preventing an apomorphine-induced reduction in dopamine metabolite levels.

Solubility Information

Solubility	DMSO: 50 mg/mL (127.9 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.558 mL	12.790 mL	25.580 mL
5 mM	0.5116 mL	2.558 mL	5.116 mL
10 mM	0.2558 mL	1.279 mL	2.558 mL
50 mM	0.0512 mL	0.2558 mL	0.5116 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Differences in effects of sultopride and sulpiride on dopamine turnover in rat brain.