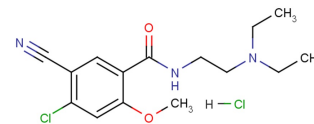


CGP 25454A

Chemical Properties

CAS No.:	104391-26-6
Formula:	C ₁₅ H ₂₁ ClN ₃ O ₂
Molecular Weight:	346.25
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	CGP 25454A is a novel and selective antagonist of the presynaptic dopamine autoreceptor.
Targets(IC ₅₀)	Others: None
In vitro	CGP 25454A increases the field-stimulated [3H]- and [14C]-overflow from rat striatal slices preloaded with [3H]dopamine and [14C]choline, indicating that CGP 25454A is able to enhance the release of both dopamine (DA) and acetylcholine (ACh). However, CGP 25454A is 12.9 times more potent in increasing, by 1/6 of the apparent maximal increase, the release of [3H]DA than that of [14C]ACh.
In vivo	CGP 25454A increase [3H]spiperone binding to receptors of the D2 family in rat striatum by 90-110% (ED50: 13 mg/kg i.p.). At 30-100 mg/kg, CGP 25454A inhibits [3H]spiperone binding in the pituitary of the same animals as a result of a blockade of postsynaptic DA receptors.

Solubility Information

Solubility	DMSO: 3.5 mg/mL (10.11 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.888 mL	14.44 mL	28.881 mL
5 mM	0.578 mL	2.888 mL	5.776 mL
10 mM	0.289 mL	1.444 mL	2.888 mL
50 mM	0.058 mL	0.289 mL	0.578 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Bischoff S et al. CGP 25454A, a novel and selective presynaptic dopamine autoreceptor antagonist. Naunyn Schmiedeberg's Arch Pharmacol. 1994 Sep;350(3):230-8.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481