

Product Data Sheet

Product Name: CGP 25454A

Cat. No.: GC30995

Chemical Properties

Cas. No. 104391-26-6

SMILES O=C(NCCN(CC)CC)C1=CC(C#N)=C(Cl)C=C1OC.[H]Cl

Formula $C_{15}H_{21}Cl_2N_3O_2$ M.Wt 346.25

Solubility DMSO : ≥ 3.5 mg/mL (10.11 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

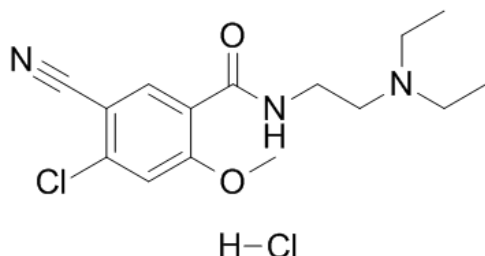
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

CGP 25454A is a novel and selective presynaptic dopamine autoreceptor antagonist. In vitro: CGP 25454A increase 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.). As a similar increase in [3H]spiperone binding is found with a variety of agents which increase the synaptic concentration of endogenous DA, the effect of CGP 25454A most probably reflects an enhanced release of DA under in vivo conditions. At 30-100 mg/kg, CGP 25454A inhibit [3H]spiperone binding in the pituitary of the same animals as a result of a blockade of postsynaptic DA receptors.

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

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