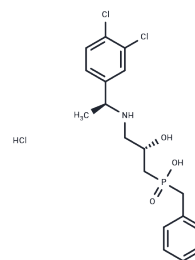


CGP 55845 hydrochloride

Chemical Properties

CAS No. :	149184-22-5
Formula:	C ₁₈ H ₂₃ Cl ₃ NO ₃ P
Molecular Weight:	438.71
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	CGP55845 hydrochloride is a potent and selective GABAB receptor antagonist with an IC ₅₀ of 6 nM, suitable for use in neurological research [1] [2].
Targets(IC ₅₀)	Others,GABA Receptor
In vitro	In the mouse visual cortex, CGP 55845 hydrochloride at 1 μM increases the frequency of both spontaneous calcium (Ca ²⁺) transients and inhibitory postsynaptic currents (IPSCs), including miniature IPSCs (mIPSCs), without altering their amplitude or kinetics. Additionally, it significantly elevates the amplitudes of evoked IPSCs (eIPSCs) and reduces the paired-pulse ratio (PPR), indicating a potent effect on synaptic transmission [3].
In vivo	Administering 0.5 mg/kg of CGP55845 hydrochloride intraperitoneally (i.p.; once) to Cdk15 KO mice enhances the quantity and density of PSD95-positive puncta, alongside the development and maturation of dendritic spines within the perirhinal cortex (PRC). This treatment also reinstates novel object recognition (NOR) memory. The study utilized 2-month-old male Cdk15 +/Y and Cdk15 -/Y mice, observing a notable improvement in NOR memory in the Cdk15 -/Y mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2794 mL	11.3971 mL	22.7941 mL
5 mM	0.4559 mL	2.2794 mL	4.5588 mL
10 mM	0.2279 mL	1.1397 mL	2.2794 mL
50 mM	0.0456 mL	0.2279 mL	0.4559 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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