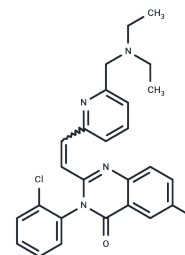


CP 465022

Chemical Properties

CAS No. : 199655-36-2
 Formula: C₂₆H₂₄ClFN₄O
 Molecular Weight: 462.95
 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	CP 465022 hydrochloride is a potent, and selective noncompetitive antagonist of AMPA receptor with anticonvulsant activity. CP 465022 hydrochloride inhibits Kainate-induced response with an IC ₅₀ of 25 nM in rat cortical neurons.
Targets(IC ₅₀)	iGluR
In vitro	CP 465022 hydrochloride 1 μM for 10 min has little effect on peak NMDA-induced currents but reduces current measured at 8 s during NMDA application by 26%. CP-465,022 at 10 μM inhibits peak NMDA-induced currents in cortical neurons by 36% and currents measured at 8 s by 70% d in primary cultures of cortical and cerebellar granule neurons. CP 465022 hydrochloride (0.0001 μM-10 μM) inhibits kainate-induced response in relatively slow manner and depends on compound concentration, exhibiting a calculated IC ₅₀ of 25 nM and essentially complete inhibition at 3.2 μM. CP 465022 hydrochloride 1 μM for 10 min inhibits peak NMDA currents in cultured rat cerebellar granule neurons with mean inhibition of 19% and NMDA currents measured at 8 s by 45%, similar to what is observed in the cortical neurons. CP 465022 hydrochloride (100 nM -10 μM) has inhibitory effects on Kainate-induced whole-cell currents in voltage-clamped rat hippocampal, 100 nM CP465,022 inhibits kainate currents developed over the course of 200s, 500 nM and 1 μM CP-465,022 nearly complete inhibits this time frame (99.3%)[1].

Solubility Information

Solubility	DMSO: 4.63 mg/mL (10 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1601 mL	10.8003 mL	21.6006 mL
5 mM	0.432 mL	2.1601 mL	4.3201 mL
10 mM	0.216 mL	1.080 mL	2.1601 mL
50 mM	0.0432 mL	0.216 mL	0.432 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

J T Lazzaro, et al. Functional characterization of CP-465,022, a selective, noncompetitive AMPA receptor antagonist. *Neuropharmacology*. 2002 Feb;42(2):143-53.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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