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DATASHEET

CP 465022 hydrochloride

Product overview

Name	CP 465022 hydrochloride
Cat No	HB0214
Alternative names	CP 392110
Biological action	Antagonist
Purity	>99%
Customer comments	<i>Good price, fast delivery</i> Verified customer, University of Copenhagen
Description	Potent, non-competitive AMPA receptor antagonist

Images



Biological Data

Biological description Potent and non-competitive AMPA receptor antagonist ($IC_{50} = 25$ nM). Weakly inhibits NMDA, GABA and kainate receptors. Displays anticonvulsant actions.

This product is a mixture of the active isomer CP 465022 and the inactive isomer CP 465021. The mixture itself is also known as CP 392110.

Please note that there is confusion in the life science marketplace and scientific literature regarding the correct naming of this product and typically, where the product is cited as CP465022, it is generally the mixture of both isomers that is being referred to. If you need any further clarification, please contact customercare@hellobio.com

Solubility & Handling

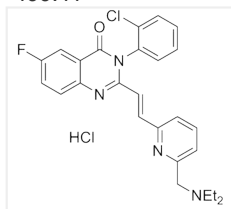
Storage instructions	Room temperature (desiccate)
Solubility overview	Soluble in water (10mM) and in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name 3-(2-Chlorophenyl)-2-[2-[6-[(diethylamino)methyl]-2-pyridinyl]ethenyl]-6-fluoro-4(3H)-quinazolinone

Molecular Weight
Chemical structure

hydrochloride
499.41



Molecular Formula
CAS Number
PubChem identifier
SMILES
InChi

C₂₆H₂₄ClFN₄O.HCl

199655-36-2

67241566

CCN(CC)CC1=CC=CC(=N1)C=CC2=NC3=C(C=C(C=C3)F)C(=O)N2C4=CC=CC=C4Cl.Cl

InChI=1S/C26H24ClFN4O.ClH/c1-3-31(4-2)17-20-9-7-8-19(29-20)13-15-25-30-23-14-12-18(28)16-21(23)26(33)32(25)24-11-6-5-10-22(24)27;/h5-16H,3-4,17H2,1-2H3;1H

InChiKey

YKYDGCRJPLYLXHY-UHFFFAOYSA-N

References

Characterization of the binding site for a novel class of noncompetitive alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid receptor antagonists.

Menniti FS *et al* (2000) Mol Pharmacol 58(6)

PubMedID [11093768](#)

CP-465,022, a selective noncompetitive AMPA receptor antagonist, blocks AMPA receptors but is not neuroprotective in vivo.

Menniti FS *et al* (2003) Stroke 34(1)

PubMedID [12511770](#)

Functional characterization of CP-465,022, a selective, noncompetitive AMPA receptor antagonist.

Lazzaro JT *et al* (2002) Neuropharmacology 42(2)

PubMedID [11804610](#)
