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DATASHEET

CP 465022 hydrochloride

Product overview

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

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 customer-care@helloworldbio.com

Solubility & Handling

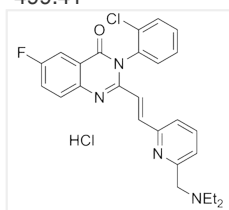
| | |
|-----------------------------|---|
| Storage instructions | Room temperature (desiccate) |
| Solubility overview | Soluble in water (10mM) and in DMSO (100mM) |
| Important | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary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

Chemical Data

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

Molecular Weight 499.41

Chemical structure



Molecular Formula $C_{26}H_{24}ClFN_4O \cdot HCl$

CAS Number 199655-36-2

PubChem identifier 67241566

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

InChi 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

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](#)
