

Product Name: CP 465022 hydrochloride

Catalog No.: 2932

Batch No.: 2

CAS Number: 1785666-59-2

IUPAC Name: 3-(2-Chlorophenyl)-2-[2-[6-[(diethylamino)methyl]-2-pyridinyl]ethenyl]-6-fluoro-4(3H)-quinazolinone hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₄ClFN₄O.³/₄H₂O

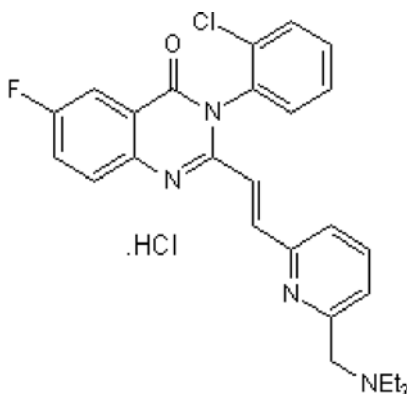
Batch Molecular Weight: 512.92

Physical Appearance: Yellow solid

Solubility: water to 10 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.44 (Chloroform:Methanol [9:1])

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.88	5.21	10.92
Found	60.82	5.36	10.84

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Description:

Selective, non-competitive AMPA antagonist ($IC_{50} = 25$ nM in rat cortical neurons) that displays potent anticonvulsant activity. Also significantly blocks the persistent component of $Na_v1.6$ channel activity. Brain penetrant and orally active.

Physical and Chemical Properties:

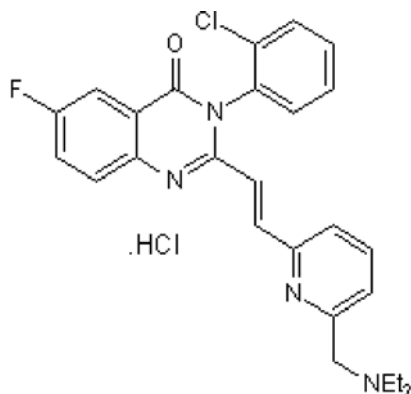
Batch Molecular Formula: $C_{26}H_{24}ClFN_4O \cdot \frac{3}{4}H_2O$

Batch Molecular Weight: 512.92

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 10 mM

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Welch *et al* (2008) Traditional AMPA receptor antagonists partially block $Na_v1.6$ -mediated persistent current. *Neuropharmacology* **55** 1165. PMID: 18687344.

Menniti *et al* (2003) CP-465,022, a selective noncompetitive AMPA receptor antagonist, blocks AMPA receptors but is not neuroprotective in vivo. *Stroke* **34** 171. PMID: 12511770.

Lazaro *et al* (2002) Functional characterization of CP-465,022, a selective, noncompetitive AMPA receptor antagonist. *Neuropharmacology* **42** 143. PMID: 11804610.

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