

**Product Name:** CP 465022 hydrochloride

**Catalog No.:** 2932

**Batch No.:** 3

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:** C<sub>26</sub>H<sub>24</sub>ClFN<sub>4</sub>O.HCl.½H<sub>2</sub>O

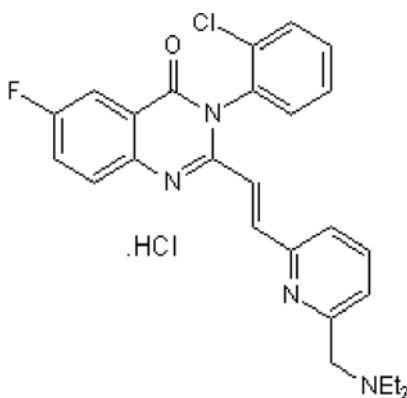
**Batch Molecular Weight:** 508.42

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.0% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	61.42	5.15	11.02	13.95
Found	61.36	4.84	10.9	14.18

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956

**Product Name:** CP 465022 hydrochloride

**Catalog No.:** 2932

**Batch No.:** 3

CAS Number: 1785666-59-2

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

**Description:**

CP 465022 hydrochloride is a 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:**

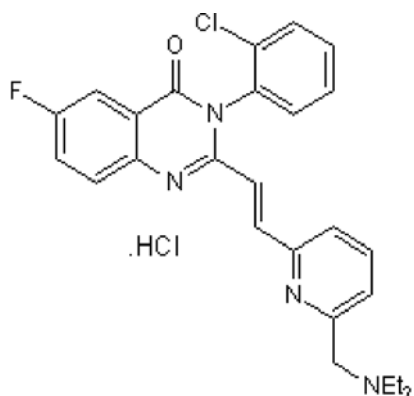
Batch Molecular Formula:  $C_{26}H_{24}ClFN_4O \cdot HCl \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 508.42

Physical Appearance: Yellow solid

**Minimum Purity:**  $\geq 99\%$

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

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.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-techne.com**

info@bio-techne.com  
techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com  
Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors  
Tel: +1 612 379 2956