1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{26}\text{H}_{24}\text{ClF}_6\text{N}_4\text{O} \cdot \frac{3}{4}\text{H}_2\text{O} \)

Batch Molecular Weight: 512.92

Physical Appearance: Yellow solid

Solubility:
- water to 10 mM
- DMSO to 100 mM

Storage: Desiccate at RT

2. ANALYTICAL DATA

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

HPLC: Shows 99.3% purity

\(^1\text{H} \text{NMR}: \) Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>60.88</td>
<td>60.82</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.21</td>
<td>5.36</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>10.92</td>
<td>10.84</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: CP 465022 hydrochloride
Catalog No.: 2932
Batch No.: 2

CAS Number: 1785666-59-2
IUPAC Name: 3-(2-Chlorophenyl)-2-[2-[(diethylamino)methyl]-2-pyridinyl]ethenyl]-6-fluoro-4(3H)-quinazolinone hydrochloride

**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$_{1.6}$ channel activity. Brain penetrant and orally active.

**Physical and Chemical Properties:**
Batch Molecular Formula: C$_{20}$H$_{24}$ClFN$_{4}$O$_{4}$H$_{2}$O
Batch Molecular Weight: 512.92
Physical Appearance: Yellow solid
Minimum Purity: >99%

**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:**