1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{21}\text{H}_{17}\text{ClFN}_{3}\text{O}_{4}\text{S} \cdot \frac{1}{4}\text{H}_{2}\text{O} \)

Batch Molecular Weight: 466.39

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

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

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>54.08</td>
<td>54.05</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>3.78</td>
<td>3.7</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>9.01</td>
<td>9.13</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: TCN 201
Catalog No.: 4154
Batch No.: 1

CAS Number: 852918-02-6
IUPAC Name: 3-Chloro-4-fluoro-N-[4-[[2-(phenylcarbonyl)hydrazino]carbonyl]benzyl]benzenesulfonamide

Description:
NMDA receptor antagonist selective for GluN1/GluN2A (formally NR1/NR2A) over GluN1/GluN2B (formally NR1/NR2B) containing receptors (pIC\textsubscript{50} values are 6.8 and <4.3, respectively, in human recombinant GluN1/GluN2A (formally NR1/NR2A) and GluN1/GluN2B (formally NR1/NR2B) FLIPR/Ca\textsuperscript{2+} assays). Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions.

Physical and Chemical Properties:
Batch Molecular Formula: C\textsubscript{21}H\textsubscript{17}ClF\textsubscript{2}N\textsubscript{3}O\textsubscript{7}S\cdot\frac{1}{3}H\textsubscript{2}O
Batch Molecular Weight: 466.39
Physical Appearance: Off-white solid
Minimum Purity: >99%

Batch Molecular Structure:

![Molecular Structure Image]

Storage: Store at +4°C

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: