1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{16}H_{10}ClF_4NO_2 \)

Batch Molecular Weight: 359.7

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM, ethanol to 100 mM

Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.58 \) (Dichloromethane)

HPLC: Shows 99.5% purity

Chiral HPLC: Shows 100% purity

\(^1\)H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: \([\alpha]_D = +142\) (Concentration = 0.132, Solvent = Methanol)

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>53.42</td>
<td>2.8</td>
<td>3.89</td>
</tr>
<tr>
<td>Found</td>
<td>53.4</td>
<td>2.72</td>
<td>3.79</td>
</tr>
</tbody>
</table>
Description:
Potassium channel modulator. Acts as a positive modulator at neuronal K\(_7\) channels and calcium-activated K\(^+\) channels (BK\(_{Ca}\)) in HEK293 cells. Displays negative modulatory activity at K\(_{7.1}\) channels (\(K_I = 3.7 \mu M\)) and GABA\(_A\) receptors. Displays anxiolytic activity in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C\(_{16}\)H\(_{10}\)ClF\(_3\)NO\(_2\)
Batch Molecular Weight: 359.7
Physical Appearance: Off White solid
Minimum Purity: >98%
Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol 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: