1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{14}\text{H}_{10}\text{F}_{3}\text{NO}_{2} \)
Batch Molecular Weight: 281.23
Physical Appearance: White solid
Solubility: DMSO to 100 mM, ethanol to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

Melting Point: At 135°C
HPLC: Shows 100% purity
\(^1\)H 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>59.79</td>
<td>59.92</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>3.58</td>
<td>3.6</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>4.98</td>
<td>4.98</td>
</tr>
</tbody>
</table>

Certificate of Analysis
Print Date: Apr 28th 2015
Product Name: Flufenamic acid
CAS Number: 530-78-9
IUPAC Name: 2-[[3-(Trifluoromethyl)phenyl]amino]benzoic acid

Description:
Nonsteroidal anti-inflammatory drug (NSAID). Inhibits calcium-activated chloride channels (CaCCs). Also increases currents through TRPC6 channels and inhibits currents through TRPC3 and TRPC7 channels.

Physical and Chemical Properties:
Batch Molecular Formula: C_{14}H_{10}F_{3}NO
Batch Molecular Weight: 281.23
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Store at RT

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: