1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C21H13F3N2O4
Batch Molecular Weight: 414.34
Physical Appearance: White solid
Solubility: DMSO to 25 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

Melting Point: Between 166 - 167°C
HPLC: Shows >99.6% purity
1H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>60.88</td>
<td>3.16</td>
<td>6.76</td>
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<tr>
<td>Found</td>
<td>60.84</td>
<td>3.03</td>
<td>6.59</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Talniflumate
CAS Number: 66898-62-2
IUPAC Name: 2-[[3-(Trifluoromethyl)phenyl]amino]-1,3-dihydro-3-oxo-1-isobenzofuranyl 3-pyridinecarboxylic acid ester

Description:
Calcium-activated chloride channel (CaCC) (hCLCA1/mCLCA3) blocker; reduces mucin synthesis and release in cell culture and animal models. Possesses anti-inflammatory actions via inhibition of cyclooxygenases and inhibits Cl-/HCO₃⁻ exchanger activity. Increases survival in a cystic fibrosis mouse model of distal intestinal obstructive syndrome.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₁H₁₃F₃N₂O₄
Batch Molecular Weight: 414.34
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 25 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: