1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{22}\text{H}_{29}\text{N}_3.2\text{CF}_3\text{CO}_2\text{H}.\frac{1}{2}\text{H}_2\text{O} \)

Batch Molecular Weight: 572.55

Physical Appearance: Off White solid

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

Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 98.6% purity

¹H 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 (C)</td>
<td>54.54</td>
<td>51.43</td>
</tr>
<tr>
<td>Hydrogen (H)</td>
<td>5.63</td>
<td>4.95</td>
</tr>
<tr>
<td>Nitrogen (N)</td>
<td>7.34</td>
<td>6.45</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Information**

**Product Name:** cis-22a

<table>
<thead>
<tr>
<th>Catalog No.: 7118</th>
<th>Batch No.: 1</th>
</tr>
</thead>
</table>

**CAS Number:** 1819366-84-1

**IUPAC Name:** 1-[cis-4-(3-Methylphenyl)cyclohexyl]-4-(3-pyridinyl)piperazine ditrifluoroacetate

**Description:**
cis-22a is a TRPV6 inhibitor (IC_{50} = 0.32 μM), which exhibits selectivity against related TRPV channels and calcium channels. cis-22a displays antiproliferative effects on T47D human breast cancer cells.

**Physical and Chemical Properties:**
- Batch Molecular Formula: C_{22}H_{26}N_{5}.2CF_{3}CO_{2}H.½H_{2}O
- Batch Molecular Weight: 572.55
- Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**

![Molecular Structure Image]

**Storage:** Store at -20°C

**Solubility & Usage Info:**
- water to 100 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:**
