1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{16}H_{18}N_2O_3 \)
Batch Molecular Weight: 286.33
Physical Appearance: White solid
Solubility: DMSO to 20 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.5 \) (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])
Melting Point: At 237°C
HPLC: Shows >99.9% purity
\(^1\)H NMR: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
<th>Oxygen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>67.12</td>
<td>6.34</td>
<td>9.78</td>
</tr>
<tr>
<td>Found</td>
<td>67.13</td>
<td>6.37</td>
<td>9.68</td>
</tr>
</tbody>
</table>
**Product Name:** Cromakalim  
**CAS Number:** 94470-67-4  
**IUPAC Name:** trans-3,4-dihydro-3-hydroxy-2,2-dimethyl-4-(2-oxo-1-pyrrolidinyl)-2H-1-benzopyran-6-carbonitrile

**Description:** Prototypical K<sub>6 (K<sub>ATP</sub>)</K> channel opener. Relaxes rabbit isolated portal vein with an IC<sub>50</sub> value of 21 nM. Potent, orally active and hypotensive in vivo. Active Enantiomer also available.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C<sub>18</sub>H<sub>18</sub>N<sub>2</sub>O<sub>3</sub>
- **Batch Molecular Weight:** 286.33
- **Physical Appearance:** White solid
- **Minimum Purity:** >99%
- **Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Store at RT

**Solubility & Usage Info:**
- DMSO to 20 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.

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- Sold under license

**References:**