**E-4031**

Cat. No.: HY-15551  
CAS No.: 113559-13-0  
Molecular Formula: C₂₁H₂₉Cl₂N₃O₃S  
Molecular Weight: 474.44  
Target: Potassium Channel  
Pathway: Membrane Transporter/Ion Channel  
Storage:  
- Powder: -20°C 3 years, 4°C 2 years  
- In solvent: -80°C 6 months, -20°C 1 month

**SOLVENT & SOLUBILITY**

In Vitro  
H₂O: ≥ 50 mg/mL (105.39 mM)  
*“≥” means soluble, but saturation unknown.*

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>2.1077 mL</td>
<td>10.5387 mL</td>
<td>21.0775 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4215 mL</td>
<td>2.1077 mL</td>
<td>4.2155 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2108 mL</td>
<td>1.0539 mL</td>
<td>2.1077 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

**BIOLOGICAL ACTIVITY**

Description  
E-4031 is a class III antiarrhythmic agent which selectively blocks hERG potassium channel.

**REFERENCES**

