CC-90003

Cat. No.: HY-112570
CAS No.: 1621999-82-3
Molecular Formula: C₂₂H₂₁F₃N₆O₂
Molecular Weight: 458.44
Target: ERK
Pathway: MAPK/ERK Pathway; Stem Cell/Wnt
Storage:
- Powder
  -20°C: 3 years
  -4°C: 2 years
- In solvent
  -80°C: 6 months
  -20°C: 1 month

SOLVENT & SOLUBILITY

In Vitro
DMSO: ≥ 125 mg/mL (272.66 mM)
H₂O: < 0.1 mg/mL (insoluble)

* "≥" means soluble, but saturation unknown.

### Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.1813 mL</td>
<td>10.9066 mL</td>
<td>21.8131 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4363 mL</td>
<td>2.1813 mL</td>
<td>4.3626 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2181 mL</td>
<td>1.0907 mL</td>
<td>2.1813 mL</td>
</tr>
</tbody>
</table>

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

In Vivo
1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.45 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (5.45 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.45 mM); Clear solution

BIOLOGICAL ACTIVITY

**Description**
CC-9003 is an irreversible and selective inhibitor of ERK 1/2 with antitumor activity.

<table>
<thead>
<tr>
<th>IC₅₀ &amp; Target</th>
<th>ERK1</th>
<th>ERK2</th>
</tr>
</thead>
</table>
In Vitro

CC-90003 is an irreversible and selective inhibitor of ERK 1/2 with antitumor activity[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES