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.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td></td>
<td>2.1813 mL</td>
<td>10.9066 mL</td>
<td>21.8131 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.4363 mL</td>
<td>2.1813 mL</td>
<td>4.3626 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></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.

IC₅₀ & Target
<table>
<thead>
<tr>
<th>ERK1</th>
<th>ERK2</th>
</tr>
</thead>
</table>

www.MedChemExpress.com
CC-90003 is an irreversible and selective inhibitor of ERK 1/2 with antitumor activity[1].

REFERENCES