AZD-5069

Cat. No.: HY-19855
CAS No.: 878385-84-3
Molecular Formula: C₁₈H₂₂F₂N₄O₅S₂
Molecular Weight: 476.52
Target: CXCR
Pathway: GPCR/G Protein; Immunology/Inflammation
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: 90 mg/mL (188.87 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent Concentration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td>2.0985 mL</td>
<td>10.4927 mL</td>
<td>20.9855 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4197 mL</td>
<td>2.0985 mL</td>
<td>4.1971 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2099 mL</td>
<td>1.0493 mL</td>
<td>2.0985 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: ≥ 2.25 mg/mL (4.72 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.25 mg/mL (4.72 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.25 mg/mL (4.72 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
AZD-5069 is a potent CXCR2 chemokine receptor antagonist, used for cancer treatment.

IC₅₀ & Target

1²⁵I-IL-8-CXCR2

In Vitro
AZD-5069 (Compound 2) acts as CXCR2 antagonist by inhibition of [¹²⁵I]-IL-8 binding to human CXCR2 receptors and as inhibitor of GROα-induced Ca²⁺ flux in human neutrophils loaded with fluo-3 dye[¹].
REFERENCES