KSQ-4279

Cat. No.: HY-145471
CAS No.: 2446480-97-1
Molecular Formula: C_{27}H_{25}F_{3}N_{8}O
Molecular Weight: 534.54
Target: PARP
Pathway: Cell Cycle/DNA Damage; Epigenetics
Storage:
- Powder: -20°C for 3 years
- In solvent: -80°C for 6 months;
  -20°C for 1 month

SOLVENT & SOLUBILITY

In Vitro
DMSO: 80 mg/mL (149.66 mM; Need ultrasonic)

Preparation of Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</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>1.8708 mL</td>
<td>9.3538 mL</td>
<td>18.7077 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3742 mL</td>
<td>1.8708 mL</td>
<td>3.7415 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1871 mL</td>
<td>0.9354 mL</td>
<td>1.8708 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 mg/mL (3.74 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2 mg/mL (3.74 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
KSQ-4279 (USP1-IN-1, Formula I) is a USP1 and PARP inhibitor (extracted from patent WO2021163530).

REFERENCES
