AZD5305

Cat. No.: HY-132167
CAS No.: 2589531-76-8
Molecular Formula: $C_{22}H_{26}N_{6}O_{2}$
Molecular Weight: 406.48
Target: PARP
Pathway: Cell Cycle/DNA Damage; Epigenetics
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: 12.5 mg/mL (30.75 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.4601 mL</td>
<td>12.3007 mL</td>
<td>24.6015 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4920 mL</td>
<td>2.4601 mL</td>
<td>4.9203 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2460 mL</td>
<td>1.2301 mL</td>
<td>2.4601 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: $\geq 0.56$ mg/mL (1.38 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: $\geq 0.56$ mg/mL (1.38 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: $\geq 0.56$ mg/mL (1.38 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
AZD5305 is a potent, selective and oral active PARP inhibitor. AZD5305 is potent and efficacious in animal xenografts and PDX models.

IC$_{50}$ & Target
PARP
Caution: Product has not been fully validated for medical applications. For research use only.

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