Pamiparib

Cat. No.: HY-104044
CAS No.: 1446261-44-4
Molecular Formula: C₁₆H₁₅FN₄O
Molecular Weight: 298.31
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 : 62.5 mg/mL (209.51 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>1 mg</td>
<td>3.3522 mL</td>
</tr>
<tr>
<td></td>
<td>5 mg</td>
<td>16.7611 mL</td>
</tr>
<tr>
<td></td>
<td>10 mg</td>
<td>33.5222 mL</td>
</tr>
<tr>
<td></td>
<td>1 mM</td>
<td>3.3522 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.6704 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.3352 mL</td>
</tr>
</tbody>
</table>

Preparing Stock Solutions

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 (7.54 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.25 mg/mL (7.54 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Pamiparib (BGB-290) is an orally active, potent, highly selective PARP inhibitor, with IC₅₀ values of 0.9 nM and 0.5 nM for PARP1 and PARP2, respectively. Pamiparib has potent PARP trapping, and capability to penetrate the brain, and can be used for the research of various cancers including the solid tumor[1][2].

IC₅₀ & Target
PARP

In Vitro
Pamiparib shows potent DNA-trapping activity with an IC₅₀ of 13 nM. In the cellular assays, Pamiparib inhibits intracellular PAR formation with an IC₅₀ of 0.24 nM. Tumor cell lines with homologous recombination defects are profoundly sensitive to Pamiparib. Pamiparib is highly active both in vitro and in vivo in BRCA mutant tumors[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.
### In Vivo


MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION


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### REFERENCES


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*Caution: Product has not been fully validated for medical applications. For research use only.*

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