NMS-P515

Cat. No.: HY-128599
CAS No.: 1262395-13-0
Molecular Formula: C₂₁H₂₉N₃O₂
Molecular Weight: 355.47
Target: PARP
Pathway: Cell Cycle/DNA Damage; Epigenetics
Storage: Please store the product under the recommended conditions in the COA.

**BIOLOGICAL ACTIVITY**

**Description**  
NMS-P515 is a potent, orally active and stereospecific PARP-1 inhibitor, with a $K_d$ of 16 nM and an $IC_{50}$ of 27 nM (in Hela cells). Anti-tumor activity\(^1\).

**IC₅₀ & Target**  
<table>
<thead>
<tr>
<th>IC₅₀</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 nM (Kd)</td>
<td>PARP-1</td>
</tr>
<tr>
<td>27 nM (IC₅₀, in Hela cells)</td>
<td>PARP-1</td>
</tr>
</tbody>
</table>

**In Vivo**  
NMS-P515 (80 mg/kg, orally daily for 12 days) exhibits potent antitumor activity in mouse models based pancreatic cancer\(^1\).

<table>
<thead>
<tr>
<th>Animal Model</th>
<th>Dosage</th>
<th>Administration</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcutaneously implanted Capan-1 pancreatic (BRCA2-mutated) mouse xenografts(^1)</td>
<td>80 mg/kg</td>
<td>Orally, once daily for 12 days</td>
<td>Clearly reduced the tumor growth (maximal tumor growth inhibition observed: 48%, maximum body weight loss: 6%).</td>
</tr>
</tbody>
</table>

**REFERENCES**


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