Selonsertib

Cat. No.: HY-18938
CAS No.: 1448428-04-3
Molecular Formula: $C_{24}H_{24}FN_7O$
Molecular Weight: 445.49
Target: MAP3K
Pathway: MAPK/ERK Pathway
Storage:
- Powder at -20°C: 3 years
- Powder at 4°C: 2 years
- In solvent at -80°C: 6 months
- In solvent at -20°C: 1 month

Solvent & Solubility

<table>
<thead>
<tr>
<th>solvent</th>
<th>mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>≥ 31 mg/mL (69.59 mM) *</td>
<td>2.2447 mL</td>
<td>11.2236 mL</td>
<td>22.4472 mL</td>
</tr>
<tr>
<td></td>
<td>“≥” means soluble, but saturation unknown.</td>
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<tr>
<td></td>
<td>Preparing Stock Solutions</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>1 mM</td>
<td>2.2447 mL</td>
<td>11.2236 mL</td>
<td>22.4472 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4489 mL</td>
<td>2.2447 mL</td>
<td>4.4894 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2245 mL</td>
<td>1.1224 mL</td>
<td>2.2447 mL</td>
<td></td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description
Selonsertib is an apoptosis signal-regulating kinase 1 (ASK1) inhibitor with a pIC$_{50}$ of 8.3±0.07.

IC$_{50}$ & Target
pIC$_{50}$: 8.3±0.07 (ASK1)$^{[1]}$

In Vitro
Selonsertib (GS-4997) is a clinical stage ASK1 inhibitor, which has been evaluated as an experimental treatment for diabetic nephropathy and kidney fibrosis$^{[1]}$. Selonsertib (GS-4997) is a highly selective and potent once-daily oral ASK1 inhibitor that competes with ATP in the ASK1 catalytic kinase domain$^{[2]}$.

REFERENCES