SEL120-34A HCl

Cat. No.: HY-1113888
CAS No.: 1609452-30-3
Molecular Formula: C₁₅H₁₈Br₂N₄.xHCl
Target: CDK
Pathway: Cell Cycle/DNA Damage
Storage:
- Powder: -20°C for 3 years or 4°C for 2 years
- In solvent: -80°C for 6 months or -20°C for 1 month

SOLVENT & SOLUBILITY

<table>
<thead>
<tr>
<th>Solvent &amp; Solubility</th>
<th>In Vitro DMSO: 62.5 mg/mL (Need ultrasonic)</th>
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</thead>
<tbody>
<tr>
<td>In Vivo 1. Add each solvent one by one:</td>
<td>10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline</td>
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<tr>
<td>Solubility: ≥ 2.08 mg/mL (Infinity mM); Clear solution</td>
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<tr>
<td>2. Add each solvent one by one:</td>
<td>10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)</td>
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<tr>
<td>Solubility: ≥ 2.08 mg/mL (Infinity mM); Clear solution</td>
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<tr>
<td>3. Add each solvent one by one:</td>
<td>10% DMSO &gt;&gt; 90% corn oil</td>
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<tr>
<td>Solubility: 2.08 mg/mL (Infinity mM); Clear solution; Need warming</td>
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</tbody>
</table>

BIOLOGICAL ACTIVITY

Description: SEL120-34A HCl is a potent, selective, orally available, ATP-competitive CDK8 inhibitor, with IC₅₀ values of 4.4 nM and 10.4 nM for CDK8/CycC and CDK19/CycC, respectively, with antitumor activity.

IC₅₀ & Target:
- CDK8/CycC: 4.4 nM (IC₅₀)
- CDK19/CycC: 10.4 nM (IC₅₀)
- CDK9/cycT: 1070 nM (IC₅₀)

In Vitro: SEL120-34A HCl is a selective, ATP-competitive CDK8 inhibitor, with IC₅₀ values of 4.4 nM and 10.4 nM for CDK8/CycC and CDK19/CycC, respectively. SEL120-34A HCl shows no obvious inhibition on CDK1, 2, 4, 6, 5, 7, and only weakly suppresses CDK9 (IC₅₀ = 1070 nM). SEL120-34A HCl is active against a panel of AML cell lines (GI₅₀<1 μM), such as SKNO-1, KG-1, HEL-60, MOLM-16, MV-4-11, OciAML-2, MOLM-6 and OciAML-3 cells, consistent with the effective inhibition range of STAT1 S727 and STAT5 S726[1].

In Vivo: SEL120-34A (30, 60 mg/kg, p.o.) inhibits the growth of tumor in mice bearing MV4-11 cancer cells, and also arrests the growth of KG-1-derived tumors at 30 mg/kg via oral administration[1].

CUSTOMER VALIDATION

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REFERENCES