**UCB9608**

**Cat. No.:** HY-112613  
**CAS No.:** 1616413-96-7  
**Molecular Formula:** $C_{20}H_{26}N_{8}O_{2}$  
**Molecular Weight:** 410.47  
**Target:** PI4K  
**Pathway:** PI3K/Akt/mTOR  
**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: 65 mg/mL (158.36 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.4362 mL</td>
<td>12.1812 mL</td>
<td>24.3623 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4872 mL</td>
<td>2.4362 mL</td>
<td>4.8725 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2436 mL</td>
<td>1.2181 mL</td>
<td>2.4362 mL</td>
<td></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: ≥ 2.08 mg/mL (5.07 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (5.07 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (5.07 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**  
UCB9608 is a potent, selective and orally active PI4KIIIβ inhibitor, with an IC$_{50}$ of 11 nM, selective over PI3KC2 α, β, and γ lipid kinases. UCB9608 improves metabolic stability and exhibits excellent pharmacokinetic profile, acts as a potent immunosuppressive agent$^{[1]}$.

**In Vitro**  
UCB9608 is a potent, selective and orally active PI4KIIIβ inhibitor, with an IC$_{50}$ of 11 nM. UCB9608 is selective for PI4KIIIβ over PI3KC2 α, β, and γ lipid kinases$^{[1]}$. 

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$^{[1]}$ Please refer to the solubility information to select the appropriate solvent.
UCB9608 inhibits human mixed lymphocyte reaction, the IC\textsubscript{50} is 37 nM\textsuperscript{[1]}.  

**REFERENCES**