**ALC-0159**

Cat. No.: HY-138300  
CAS No.: 1849616-42-7  
Molecular Formula: \((C_2H_4O)nC_{31}H_{63}NO_2\)  
Target: Others  
Pathway: Others  
Storage: Powder  
-20°C 3 years  
4°C 2 years  
In solvent -80°C 6 months  
-20°C 1 month

**SOLVENT & SOLUBILITY**

<table>
<thead>
<tr>
<th>Medium</th>
<th>Solubility (*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Vitro</td>
<td>DMSO: 100 mg/mL (Need ultrasonic)</td>
</tr>
<tr>
<td>In Vivo</td>
<td>1. Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline</td>
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<tr>
<td></td>
<td>Solubility: (\geq 2.5) mg/mL (Infinity mM); Clear solution</td>
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<td>2. Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)</td>
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<tr>
<td></td>
<td>Solubility: (\geq 2.5) mg/mL (Infinity mM); Clear solution</td>
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<td>3. Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil</td>
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<tr>
<td></td>
<td>Solubility: (\geq 2.5) mg/mL (Infinity mM); Clear solution</td>
</tr>
</tbody>
</table>

**BIOLOGICAL ACTIVITY**

**Description**  
ALC-0159, a polyethylene glycol (PEG) lipid conjugate, could be used as vaccine excipient[1].

**In Vitro**  
ALC-0159, which contributes to nanoparticle stabilization by a steric mechanism through its poly(ethylene glycol) (PEG) moiety[1].  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**REFERENCES**

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

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