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

**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.

Tel: 609-228-6898                        Fax: 609-228-5909                        E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA