Afimetoran

**Cat. No.:** HY-139567  
**CAS No.:** 2171019-55-7  
**Molecular Formula:** C₂₆H₃₂N₆O  
**Molecular Weight:** 444.57  
**Target:** Toll-like Receptor (TLR)  
**Pathway:** Immunology/Inflammation  
**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: 100 mg/mL (224.94 mM; ultrasonic and adjust pH to 2 with HCl)

<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>Preparing</td>
<td></td>
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<tr>
<td>Stock Solutions</td>
<td></td>
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<tr>
<td>Concentration</td>
<td></td>
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</tr>
<tr>
<td>1 mM</td>
<td>2.2494 mL</td>
<td>11.2468 mL</td>
<td>22.4936 mL</td>
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</tr>
<tr>
<td>5 mM</td>
<td>0.4499 mL</td>
<td>2.2494 mL</td>
<td>4.4987 mL</td>
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</tr>
<tr>
<td>10 mM</td>
<td>0.2249 mL</td>
<td>1.1247 mL</td>
<td>2.2494 mL</td>
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</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: ≥ 2.5 mg/mL (5.62 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.5 mg/mL (5.62 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.5 mg/mL (5.62 mM); Clear solution

### BIOLOGICAL ACTIVITY

**Description:** Afimetoran is a toll-like receptor antagonist, which can be used in the research of inflammatory and autoimmune diseases[1].
Caution: Product has not been fully validated for medical applications. For research use only.

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