**PF-4840154**

**Cat. No.:** HY-18779  
**CAS No.:** 1332708-14-1  
**Molecular Formula:** C₂₆H₃₈N₆O₂  
**Molecular Weight:** 466.62  
**Target:** TRP Channel  
**Pathway:** Membrane Transporter/Ion Channel; Neuronal Signaling  
**Storage:**  
- Powder: -20°C for 3 years, 4°C for 2 years  
- In solvent: -80°C for 6 months, -20°C for 1 month

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**SOLVENT & SOLUBILITY**

**In Vitro**  
DMSO: 50 mg/mL (107.15 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concentration</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td></td>
<td>2.1431 mL</td>
<td>10.7154 mL</td>
<td>21.4307 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.4286 mL</td>
<td>2.1431 mL</td>
<td>4.2861 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.2143 mL</td>
<td>1.0715 mL</td>
<td>2.1431 mL</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: ≥ 2.5 mg/mL (5.36 mM); Clear solution  
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution  
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution

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**BIOLOGICAL ACTIVITY**

**Description**  
PF-4840154 is a potent, selective agonist of the rat and human TrpA1 channel with EC₅₀s of 97 and 23 nM, respectively.

**IC₅₀ & Target**  
IC₅₀: 97 nM (rTrpA1), 23 nM (hTrpA1)[1]