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 3 years, 4°C 2 years
- In solvent: -80°C 2 years, -20°C 1 year

**SOLVENT & SOLUBILITY**

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

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Concentration</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mg</td>
<td>5 mg</td>
</tr>
<tr>
<td>1 mM</td>
<td>2.1431 mL</td>
<td>10.7154 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4286 mL</td>
<td>2.1431 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2143 mL</td>
<td>1.0715 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

**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. PF-4840154 elicits TrpA1-mediated nocifensive behaviour in mouse[1].

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

**In Vivo**
PF-4840154 (30 nmol; intraplantar) elicits TrpA1-mediated nocifensive behaviour in mouse[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<table>
<thead>
<tr>
<th>Animal Model:</th>
<th>Female CD1 mice (25-30g) (In TrpA1+/+ mice)[1]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dosage:</td>
<td>30 nmol</td>
</tr>
<tr>
<td>Administration:</td>
<td>Intraplantar (i.pl) injection</td>
</tr>
<tr>
<td>Result:</td>
<td>Elicited robust licking behavior.</td>
</tr>
</tbody>
</table>

**REFERENCES**


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