SB-366791

Cat. No.: HY-12245  
CAS No.: 472981-92-3  
Molecular Formula: C₁₆H₁₄ClNO₂  
Molecular Weight: 287.74  
Target: TRP Channel  
Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling  
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 (347.54 mM)  
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>3.4754 mL</td>
<td>17.3768 mL</td>
<td>34.7536 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.6951 mL</td>
<td>3.4754 mL</td>
<td>6.9507 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3475 mL</td>
<td>1.7377 mL</td>
<td>3.4754 mL</td>
<td></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 (8.69 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: 2.5 mg/mL (8.69 mM); Suspended solution; Need ultrasonic

3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.5 mg/mL (8.69 mM); Clear solution

BIOLOGICAL ACTIVITY

Description  
SB-366791 is a potent, competitive and selective vanilloid receptor (VR1/TRPV1) antagonist with IC50 of 5.7±1.2 nM. Target: VR1/TRPV1/C50: 5.7±1.2 nM. [1] SB-366791 produced a concentration-dependent inhibition of the response to capsaicin with an apparent pKb of 7.74±0.08. Schild analysis indicated a competitive mechanism of action with a pA2 of 7.71. [1] SB-366791 showed a concentration-dependent potentiation of pH 5-induced 45Ca2+ uptake in CHO cells expressing rat TRPV1 but not in untransfected cells. [2]
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REFERENCES
