Levamlodipine besylate

Cat. No.: HY-14744A
CAS No.: 150566-71-5
Molecular Formula: C₂₆H₃₁ClN₂O₈S
Molecular Weight: 567.05
Target: Calcium Channel
Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling
Storage: -20°C, protect from light
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro
DMSO: ≥ 150 mg/mL (264.53 mM)
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>1.7635 mL</td>
<td>8.8176 mL</td>
<td>17.6351 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.3527 mL</td>
<td>1.7635 mL</td>
<td>3.5270 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.1764 mL</td>
<td>0.8818 mL</td>
<td>1.7635 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 (4.41 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.41 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.41 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Levamlodipine besylate (S)-Amlodipine besylate) is a powerful dihydropyridine calcium channel blocker, possessing vasodilation properties and used in the treatment of hypertension and angina[1].

IC₅₀ & Target
Calcium channel[1].

REFERENCES