Lubiprostone

Cat. No.: HY-B0679
CAS No.: 136790-76-6
Molecular Formula: C₂₀H₃₂F₂O₅
Molecular Weight: 390.46
Target: Chloride Channel
Pathway: Membrane Transporter/Ion Channel
Storage:
- Powder: -20°C for 3 years, 4°C for 2 years
- In solvent: -80°C for 2 years, -20°C for 1 year

In Vitro

DMSO: 100 mg/mL (256.11 mM; Need ultrasonic)

<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 Stock Solutions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td>2.5611 mL</td>
<td>12.8054 mL</td>
<td>25.6108 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5122 mL</td>
<td>2.5611 mL</td>
<td>5.1222 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2561 mL</td>
<td>1.2805 mL</td>
<td>2.5611 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: ≥ 3.25 mg/mL (8.32 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 3.25 mg/mL (8.32 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 3.25 mg/mL (8.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description: Lubiprostone (SPI-0211; RU0211) is a gastrointestinal agent used for the treatment of idiopathic chronic constipation. Target: Others

CUSTOMER VALIDATION
• Dig Dis Sci. 2019 Sep;64(9):2527-2537.

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**REFERENCES**


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Caution: Product has not been fully validated for medical applications. For research use only.

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