Buflomedil hydrochloride

Cat. No.: HY-80484  
CAS No.: 35543-24-9  
Molecular Formula: C₁₇H₂₆ClNO₄  
Molecular Weight: 343.85  
Target: Others  
Pathway: Others  
Storage: Powder -20°C 3 years  
4°C 2 years  
In solvent -80°C 6 months  
-20°C 1 month

**SOLVENT & SOLUBILITY**

In Vitro  
H₂O : ≥ 55 mg/mL (159.95 mM)  
DMSO : 33.33 mg/mL (96.93 mM; Need ultrasonic)  
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent &amp; Mass Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td></td>
<td>2.9082 mL</td>
<td>14.5412 mL</td>
<td>29.0824 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.5816 mL</td>
<td>2.9082 mL</td>
<td>5.8165 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.2908 mL</td>
<td>1.4541 mL</td>
<td>2.9082 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: ≥ 2.75 mg/mL (8.00 mM); Clear solution  
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.75 mg/mL (8.00 mM); Clear solution  
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.75 mg/mL (8.00 mM); Clear solution

**BIOLOGICAL ACTIVITY**

Description  
Buflomedil hydrochloride is a vasodilator used to treat claudication or the symptoms of peripheral arterial disease. Target: Others  
Buflomedil hydrochloride is a vasoactive drug used to treat claudication or the symptoms of peripheral arterial disease. In the EU, buflomedil, a vasoactive agent, was indicated for treatment of PAOD symptoms, specifically in patients with stage II PAOD who experience severe pain when walking even relatively short distances.
Buflomedil is not currently approved by the US Food and Drug Administration for use in the United States.

REFERENCES