Clascoterone

Cat. No.: HY-13331
CAS No.: 19608-29-8
Molecular Formula: C₂₄H₃₄O₅
Molecular Weight: 402.52
Target: Androgen Receptor
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

DMSO : ≥ 100 mg/mL (248.43 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></td>
<td>1 mM</td>
<td>2.4843 mL</td>
<td>12.4217 mL</td>
<td>24.8435 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4969 mL</td>
<td>2.4843 mL</td>
<td>4.9687 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2484 mL</td>
<td>1.2422 mL</td>
<td>2.4843 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 (6.83 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.75 mg/mL (6.83 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.75 mg/mL (6.83 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Clascoterone (Cortexolone 17 alpha-propionate;Cortexolone 17α-propionate;CB-03-01) is a new topical and peripherally selective androgen antagonist.

IC₅₀ & Target
Androgen Receptor[1].
Clascoterone is a new potent topical antiandrogen potentially useful in acne vulgaris. Clascoterone 1% cream was very well tolerated, and was significantly better than placebo regarding TLC (P = 0.0017), ILC (P = 0.0134) and ASI (P = 0.0090), and also clinically more effective than comparator. The product also induced a faster attainment of 50% improvement in all the above parameters.

REFERENCES
