Triptorelin

Cat. No.: HY-12551  
CAS No.: 57773-63-4  
Molecular Formula: C₆₄H₈₂N₁₈O₁₃  
Molecular Weight: 1311.45  
Target: GNRH Receptor  
Pathway: GPCR/G Protein  
Storage: Powder -80°C 2 years  
-20°C 1 year  
In solvent -80°C 6 months  
-20°C 1 month

Solvent & Solubility

In Vitro  
10 mM in DMSO

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Concentration</th>
<th>Solvent Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td></td>
<td>0.7625 mL</td>
<td>3.8126 mL</td>
<td>7.6251 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.1525 mL</td>
<td>0.7625 mL</td>
<td>1.5250 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.0763 mL</td>
<td>0.3813 mL</td>
<td>0.7625 mL</td>
<td></td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description  
Triptorelin is a GnRH agonist shown to inhibit estradiol-induced cancer cell proliferation. In vivo: (1) Triptorelin can improve the pregnancy rate by 12% to 15% in ewes and downregulate ovarian GnRHR-I expression of female rats, especially in late-growing follicles. (2) Triptorelin immunity blocked EET and UWT, inhibited uterine growth and development and enhance the expression levels of ESR1, LHR, and FSHR proteins.

REFERENCES
