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

Preparation of Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Mass (mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>0.7625 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.1525 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.0763 mL</td>
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</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

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