Melengestrol acetate

Cat. No.: HY-111614
CAS No.: 2919-66-6
Molecular Formula: C₂₅H₃₂O₄
Molecular Weight: 396.52
Target: Progesterone 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: 25 mg/mL (63.05 mM; Need ultrasonic)

Preparation of Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.5219 mL</td>
<td>12.6097 mL</td>
<td>25.2194 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5044 mL</td>
<td>2.5219 mL</td>
<td>5.0439 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2522 mL</td>
<td>1.2610 mL</td>
<td>2.5219 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: 2.5 mg/mL (6.30 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Melengestrol acetate is a progesterone derivative, acts as an orally active corticosteroid hormone to promote endometrial proliferation, pregnancy maintenance, and delay of menstrual activity[1]. Melengestrol Acetate is used as a contraceptive agent for growth promoting effects and suppression of estrus in animals. Melengestrol acetate inhibits both the androgen-dependent and -independent prostatic tumors in vivo and can be used for cancer research[2].

In Vivo
Melengestrol acetate (s.c.; 10 mg/kg; 9 days) inhibits the growth of AT3 tumors by approximately 53%. And it also causes a 54% weight reduction of the ventral prostate and a reduction of the seminal vesicles in adult male CCFI rats[1]. 
Melengestrol acetate (oral administration; 10 mg/kg; 24 days) causes a 58.8% Dunning R3327-AT3 tumors growth and reduces the adrenal weight by 51.6% in rat[3]. 
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
REFERENCES


[3]. https://www.sciencedirect.com/topics/agricultural-and-biological-sciences/melengestrol-acetate

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