Topilutamide

Cat. No.: HY-19470
CAS No.: 260980-89-0
Molecular Formula: C₁₃H₁₁F₆N₃O₅
Molecular Weight: 403.23
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
DMSO: 150 mg/mL (372.00 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1 mM</td>
<td>2.4800 mL</td>
<td>12.3999 mL</td>
<td>24.7997 mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mM</td>
<td>0.4960 mL</td>
<td>2.4800 mL</td>
<td>4.9599 mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mM</td>
<td>0.2480 mL</td>
<td>1.2400 mL</td>
<td>2.4800 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 (6.20 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.20 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.20 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Topilutamide is a topical nonsteroidal antiandrogen (NSAA).

In Vivo
Prostate cancer is the most common cancer and one of the leading causes of cancer deaths in men. One of the commonly used approaches to treat metastatic prostate cancer is via first-generation nonsteroidal anti-androgens (NSAAs), namely Flutamide, Nilutamide, Bicalutamide and Topilutamide\(^1\).
REFERENCES