Tocofersolan

Cat. No.: HY-B0717
CAS No.: 9002-96-4

**Molecular Formula:** $C_{35}H_{58}O_6$
**Molecular Weight:** 1513

**Target:** Others
**Pathway:** Others

**Storage:**
- Pure form
  - $-20^\circ C$: 3 years
  - $4^\circ C$: 2 years
- In solvent
  - $-80^\circ C$: 6 months
  - $-20^\circ C$: 1 month

**SOLVENT & SOLUBILITY**

**In Vitro**
- $H_2O$: 100 mg/mL (66.09 mM; Need ultrasonic)
- DMSO: 100 mg/mL (66.09 mM; Need ultrasonic)
- Ethanol: 50 mg/mL (33.05 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration</td>
<td>1 mg</td>
</tr>
<tr>
<td></td>
<td>1 mM</td>
<td>0.6609 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.1322 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.0661 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: PBS
   Solubility: 100 mg/mL (66.09 mM); Clear solution; Need ultrasonic and warming and heat to $60^\circ C$
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (1.65 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (1.65 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (1.65 mM); Clear solution
5. Add each solvent one by one: 5% DMSO >> 40% PEG300 >> 5% Tween-80 >> 50% saline
   Solubility: ≥ 2.5 mg/mL (1.65 mM); Clear solution
6. Add each solvent one by one: 5% DMSO >> 95% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (1.65 mM); Clear solution

**BIOLOGICAL ACTIVITY**

Inhibitors • Screening Libraries • Proteins

www.MedChemExpress.com
<table>
<thead>
<tr>
<th>Description</th>
<th>Tocofersolan is synthetic polyethylene glycol derivative of α-tocopherol. Tocofersolan is an orally active and water-soluble analog of vitamin E. Tocofersolan can reduce neurobehavioral deficits in zebrafish embryos exposed to moderate and high concentrations of BaP during early development. Tocofersolan shows antioxidant activity. Tocofersolan can be used to provide an orally bioavailable source of vitamin E.[1][2][3].</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Vivo</td>
<td>Tocofersolan (0-3 μM) increases locomotor activity, and causes a significant attenuation of the BaP-induced hypoactivity at 1 μM in zebrafish embryos exposed to BaP[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</td>
</tr>
</tbody>
</table>

**CUSTOMER VALIDATION**


See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

**REFERENCES**


---

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

Tel: 609-228-6898  Fax: 609-228-5909  E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA