DL-alpha-Tocopherol

Cat. No.: HY-W020044
CAS No.: 10191-41-0
Molecular Formula: C<sub>29</sub>H<sub>50</sub>O<sub>2</sub>
Molecular Weight: 430.71
Target: Ferroptosis
Pathway: Apoptosis
Storage: 4°C, protect from light
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

**SOLVENT & SOLUBILITY**

**In Vitro**

- **H<sub>2</sub>O**: 100 mg/mL (232.17 mM; Need ultrasonic)
- **DMSO**: 100 mg/mL (232.17 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td></td>
<td>2.3217 mL</td>
<td>11.6087 mL</td>
<td>23.2175 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.4643 mL</td>
<td>2.3217 mL</td>
<td>4.6435 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.2322 mL</td>
<td>1.1609 mL</td>
<td>2.3217 mL</td>
<td></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 (5.80 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (5.80 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.80 mM); Clear solution

**BIOLOGICAL ACTIVITY**

**Description**
DL-alpha-Tocopherol is a synthetic vitamin E, with antioxidation effect. DL-alpha-Tocopherol protects human skin fibroblasts against the cytotoxic effect of UVB<sup>1</sup>.

**CUSTOMER VALIDATION**

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REFERENCES


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

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