Arachidonyl alcohol

Cat. No.: HY-135801
CAS No.: 13487-46-2
Molecular Formula: C₂₀H₃₄O
Molecular Weight: 290.48
Target: Others
Pathway: Others
Storage: Pure form -20°C 3 years
4°C 2 years
In solvent -80°C 6 months
-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td>3.4426 mL</td>
<td>17.2129 mL</td>
<td>34.4258 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.6885 mL</td>
<td>3.4426 mL</td>
<td>6.8852 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3443 mL</td>
<td>1.7213 mL</td>
<td>3.4426 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: ≥ 2.08 mg/mL (7.16 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (7.16 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (7.16 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Arachidonyl alcohol is a long-chain primary fatty alcohol. Arachidonyl alcohol is used as a substrate for the production of several ether lipids possessing beneficial functions[1].

IC₅₀ & Target
IC₅₀: substrate for ether lipids[1]

In Vitro
Arachidonyl alcohol can be converted from arachidonic acid, then arachidonyl alcohol accumulated inside the cells as
a wax ester. A new strain, Acinetobacter species N-476-2, can effectively convert arachidonic acid to arachidonyl alcohol[1].

REFERENCES