Etofenamate

Cat. No.: HY-17361
CAS No.: 30544-47-9
Molecular Formula: \( \text{C}_{18}\text{H}_{18}\text{F}_{3}\text{NO}_{4} \)
Molecular Weight: 369.34
Target: COX
Pathway: Immunology/Inflammation
Storage:
- Pure form: -20°C for 3 years, 4°C for 2 years
- In solvent: -80°C for 6 months, -20°C for 1 month

SOLVENT & SOLUBILITY

In Vitro
Ethanol: 120 mg/mL (324.90 mM; Need ultrasonic)
DMSO: ≥ 50 mg/mL (135.38 mM)
* “≥” means soluble, but saturation unknown.

Preparation of Stock Solutions

<table>
<thead>
<tr>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.7075 mL</td>
<td>13.5377 mL</td>
<td>27.0753 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5415 mL</td>
<td>2.7075 mL</td>
<td>5.4151 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2708 mL</td>
<td>1.3538 mL</td>
<td>2.7075 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 (6.77 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.77 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Etofenamate, a non-steroid anti-inflammatory agent (NSAID) and a non-selective COX inhibitor, possesses analgesic, anti-inflammatory, antipyretic and anti-inflammatory properties. Etofenamate is used in the research for osteoarthritis, arthritis and other inflammatory diseases\(^1\)\(^2\)\(^3\).
REFERENCES


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

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