Etifoxine

Cat. No.: HY-16579A
CAS No.: 21715-46-8
Molecular Formula: C₁₇H₁₇ClN₂O
Molecular Weight: 300.78
Target: GABA Receptor
Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling
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: 100 mg/mL (332.47 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1 mg</td>
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<tr>
<td>1 mM</td>
<td></td>
<td>3.3247 mL</td>
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<tr>
<td>5 mM</td>
<td></td>
<td>0.6649 mL</td>
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<tr>
<td>10 mM</td>
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<td>0.3325 mL</td>
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</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 (8.31 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.31 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.31 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Etifoxine (HOE 36-801) is potentiator of GABAA receptor function in cultured neurons. Etifoxine preferentially acts on β2 or β3 subunit-containing GABAA receptors. IC50 value: Target: GABAA receptor
Etifoxine exhibits anxiolytic activity in rodents and humans with no sedative, myorelaxant or mnesic side effects. Etifoxine acts as a ligand of the translocator protein (TSPO); promotes axonal regeneration.


