Bifenazate

Cat. No.: HY-119687
CAS No.: 149877-41-8
Molecular Formula: C₁₇H₂₀N₂O₃
Molecular Weight: 300.35
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: ≥ 250 mg/mL (832.36 mM)
H₂O: < 0.1 mg/mL (insoluble)
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>3.3294 mL</td>
<td>16.6472 mL</td>
<td>33.2945 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.6659 mL</td>
<td>3.3294 mL</td>
<td>6.6589 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3329 mL</td>
<td>1.6647 mL</td>
<td>3.3294 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: ≥ 2.08 mg/mL (6.93 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.93 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Bifenazate is a carbazate acaricide that control 100% of mites at a concentration of 25 ppm[^1]. Bifenazate is a positive allosteric modulator of GABA receptor[^2].

IC₅₀ & Target
GABA receptor[^2].
REFERENCES


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