Diethylcarbamazine citrate

Cat. No.: HY-12642
CAS No.: 1642-54-2
Molecular Formula: C₁₆H₂₉N₃O₈
Molecular Weight: 391.42
Target: Parasite
Pathway: Anti-infection
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 : ≥ 39 mg/mL (99.64 mM)
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.5548 mL</td>
<td>12.7740 mL</td>
<td>25.5480 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5110 mL</td>
<td>2.5548 mL</td>
<td>5.1096 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2555 mL</td>
<td>1.2774 mL</td>
<td>2.5548 mL</td>
<td></td>
</tr>
</tbody>
</table>

Preparing Stock Solutions

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 (6.39 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.39 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.39 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Diethylcarbamazine citrate is an inhibitor of arachidonic acid metabolism in filarial microfilaria; is highly specific for several parasites and does not contain any toxic metallic elements.

REFERENCES

www.MedChemExpress.com

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