Dyclonine hydrochloride

Cat. No.: HY-B0364A
CAS No.: 536-43-6
Molecular Formula: C₁₈H₂₈ClNO₂
Molecular Weight: 325.87
Target: Sodium Channel
Pathway: Membrane Transporter/Ion Channel
Storage:
- Powder: -20°C, 3 years; 4°C, 2 years
- In solvent: -80°C, 6 months; -20°C, 1 month

Solvent & Solubility

In Vitro
10 mM in DMSO

<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>Solvent Concentration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td>3.0687 mL</td>
<td>15.3435 mL</td>
<td>30.6871 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.6137 mL</td>
<td>3.0687 mL</td>
<td>6.1374 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3069 mL</td>
<td>1.5344 mL</td>
<td>3.0687 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description
Dyclonine is an oral anaesthetic found in Sucrets, an over the counter throat lozenge. Target: Sodium Channel
Dyclonine is an oral anaesthetic that is the active ingredient of Sucrets, an over the counter throat lozenge. It is also found in some varieties of the Cepacol sore throat spray. It is a local anesthetic, used topically as the hydrochloride salt. Dyclonine hydrochloride has been found to possess, in addition to its topical anesthetic properties, significant bactericidal and fungicidal activity. Self-sterilizing action manifested by preparations containing the drug was considerably enhanced upon the addition of chlorobutanol. Results of in vitro tests employing microorganisms commonly involved in local infections indicated that the two agents in combination act synergistically [1, 2].

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

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