Picloxydine

Cat. No.: HY-U00120
CAS No.: 5636-92-0
Molecular Formula: $C_{20}H_{24}Cl_2N_{10}$
Molecular Weight: 475.38
Target: Bacterial
Pathway: Anti-infection
Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

**SOLVENT & SOLUBILITY**

In Vitro

DMSO : 11.36 mg/mL (23.90 mM; ultrasonic and warming and adjust pH to 5 with HCl and heat to 60°C)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>2.1036 mL</td>
<td>10.5179 mL</td>
<td>21.0358 mL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4207 mL</td>
<td>2.1036 mL</td>
<td>4.2072 mL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2104 mL</td>
<td>1.0518 mL</td>
<td>2.1036 mL</td>
<td></td>
</tr>
</tbody>
</table>

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

**BIOLOGICAL ACTIVITY**

Description

Picloxydine is a heterocyclic biguanide with antibacterial and antiplaque activity.

$IC_{50}$ & Target

Bacterial$^{[1]}$

In Vivo

0.4% Picloxydine produces a highly significant drop in the number of aerobic organisms. 0.4% Picloxydine is far more effective than 0.2% Picloxydine or chlorhexidine in reducing the total viable count of oral aerobic and anaerobic organisms$^{[1]}$. Picloxydine is also used in eye drops in the topical therapy of trachoma$^{[2]}$.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**REFERENCES**

