Chlorhexidine digluconate

Cat. No.: HY-B0608
CAS No.: 18472-51-0
Molecular Formula: C₃₄H₅₄Cl₂N₁₀O₁₄
Molecular Weight: 897.76
Target: Bacterial
Pathway: Anti-infection
Storage: Pure form
        -20°C: 3 years
        4°C: 2 years
In solvent
        -80°C: 6 months
        -20°C: 1 month

SOLVENT & SOLUBILITY

In Vitro
DMSO: ≥ 38 mg/mL (42.33 mM)
* “≥” means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>1.1139 mL</td>
<td>5.5694 mL</td>
<td>11.1388 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.2228 mL</td>
<td>1.1139 mL</td>
<td>2.2278 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.1114 mL</td>
<td>0.5569 mL</td>
<td>1.1139 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
Chlorhexidine digluconate is an antiseptic effective against a wide variety of gram-negative and gram-positive organisms. Target: Antibacterial
Chlorhexidine digluconate is a chemical antiseptic. It is effective on both Gram-positive and Gram-negative bacteria, although it is less effective with some Gram-negative bacteria. It has both bactericidal and bacteriostatic mechanisms of action, the mechanism of action being membrane disruption, not ATPase inactivation as previously thought. It is also useful against fungi and enveloped viruses, though this has not been extensively investigated. Chlorhexidine digluconate is harmful in high concentrations, but is used safely in low concentrations in many products, such as mouthwash and contact lens solutions [1, 2].

CUSTOMER VALIDATION

- Cancer Res. 2019 Feb 1;79(3):534-545.
REFERENCES
