Chlortetracycline hydrochloride

Cat. No.: HY-B1327
CAS No.: 64-72-2
Molecular Formula: C₂₂H₂₄Cl₂N₂O₈
Molecular Weight: 515.34
Target: Bacterial; Antibiotic
Pathway: Anti-infection
Storage:
- Powder: -20°C for 3 years, 4°C for 2 years
- In solvent: -80°C for 6 months, -20°C for 1 month

SOLVENT & SOLUBILITY

In Vitro
- H₂O: 6.66 mg/mL (12.92 mM; Need ultrasonic and warming)
- DMSO: < 1 mg/mL (insoluble or slightly soluble)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Mass (1 mg)</th>
<th>Mass (5 mg)</th>
<th>Mass (10 mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>1.9405 mL</td>
<td>9.7023 mL</td>
<td>19.4047 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3881 mL</td>
<td>1.9405 mL</td>
<td>3.8809 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1940 mL</td>
<td>0.9702 mL</td>
<td>1.9405 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
Chlortetracycline hydrochloride (7-Chlortetracycline hydrochloride) is a specific and potent calcium ionophore antibiotic, inhibits binding of aminoacyl-tRNA to ribosomes.

REFERENCES

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

Tel: 609-228-6898          Fax: 609-228-5909          E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA