Ethacridine lactate

Cat. No.: HY-B2174
CAS No.: 1837-57-6
Molecular Formula: C₁₈H₂₁N₃O₄
Molecular Weight: 343.38
Target: Bacterial
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: ≥ 100 mg/mL (291.22 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.9122 mL</td>
<td>14.5611 mL</td>
<td>29.1223 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5824 mL</td>
<td>2.9122 mL</td>
<td>5.8245 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2912 mL</td>
<td>1.4561 mL</td>
<td>2.9122 mL</td>
</tr>
</tbody>
</table>

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 (7.28 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (7.28 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.28 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Ethacridine lactate (Acrinol) is a widely used antiseptic and abortifacient. Ethacridine lactate is effective against Staphylococcus aureus and other gram-positive cocci. Ethacridine lactate is also a poly(ADP-ribose) glycohydrolase (PARG) inhibitor[1][2][3].

IC₅₀ & Target
poly(ADP-ribose) glycohydrolase (PARG)[2]
**In Vitro**

Acrinol is effective against *S. aureus* including MRSA, with the MICs ranging from 100-200 μg/mL. The MIC of Acrinol for *Eschericia coli* is 200-800 μg/mL, and it is over 1,600 μg/mL for *Proteus vulgaris* and *Proteus mirabilis*.[3]

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

**In Vivo**

Ethacridine lactate can be used for termination of pregnancy[1].

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**REFERENCES**


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