# 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 for 3 years, 4°C for 2 years  
- In solvent: -80°C for 6 months, -20°C for 1 month  

## SOLVENT & SOLUBILITY

### In Vitro

DMSO: ≥ 100 mg/mL (291.22 mM)  
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>2.9122 mL</td>
<td>14.5611 mL</td>
<td>29.1223 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.5824 mL</td>
<td>2.9122 mL</td>
<td>5.8245 mL</td>
</tr>
<tr>
<td></td>
<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 is a poly(ADP-ribose) glycohydrolase (PARG) inhibitor.

### IC₅₀ & Target

PARG[^1]

### In Vitro

Ethacridine lactate is effective against mostly gram-positive species like Streptococci and Staphylococci and...
ineffective against gram-negative (*Pseudomonas aeruginosa*)\(^\text{[1]}\). Ethacridine Lactate is a safe abortifacient with about 80% success and hardly any side effects\(^\text{[2]}\).

### In Vivo

The incidence of retained placenta is 16%. The extra-amniotic injection is a technically simple procedure and can be carried out even between 13-15 weeks of pregnancy when intraamniotic injection is difficult. Its bactericidal properties minimize the danger of post-abortal infection. It can be used in certain medical conditions like hypertension, bronchial asthma where hypertonic saline and prostaglandin are contraindi-cated\(^\text{[2]}\). Ethacridine lactate performs better than other instillation abortion methods and it is a safe and effective method. Ethacridine lactate induces successful abortion in 92.8% of cases which is much higher than that found in the literature (about 82%). Abortion failure occurs in the other 4 cases because of transverse lie of fetus, cervical dystocia, and uterine inertia\(^\text{[2]}\).

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### REFERENCES


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

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