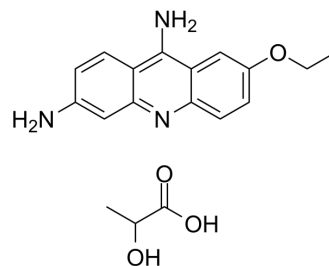


## Ethacridine lactate

<b>Cat. No.:</b>	HY-B2174
<b>CAS No.:</b>	1837-57-6
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>21</sub> N <sub>3</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	343.38
<b>Target:</b>	Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (145.61 mM; Need ultrasonic)					
	H <sub>2</sub> O : 12.5 mg/mL (36.40 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		2.9122 mL	14.5611 mL	29.1223 mL
<b>5 mM</b>			0.5824 mL	2.9122 mL	5.8245 mL	
	<b>10 mM</b>		0.2912 mL	1.4561 mL	2.9122 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	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

<b>Description</b>	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 <sup>[1][2][3]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	poly(ADP-ribose) glycohydrolase (PARG) <sup>[2]</sup>
<b>In Vitro</b>	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 <sup>[3]</sup> .

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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<sup>[1]</sup>.

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## CUSTOMER VALIDATION

- Cell Rep. 2018 Oct 9;25(2):437-448.
- Elife. 2020 Dec 7;9:e61405.

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## REFERENCES

[1]. Rotin LE, et al. Erlotinib synergizes with the poly(ADP-ribose) glycohydrolase inhibitor ethacridine in acute myeloid leukemia cells. *Haematologica*. 2016 Nov;101(11):e449-e453.

[2]. Gupta S, et al. Ethacridine lactate -- a safe and effective drug for termination of pregnancy. *Indian J Matern Child Health*. 1993;4(2):59-61.

[3]. Usuki R, et, al. Antibacterial Activity of Acrinol against Organisms Isolated from Clinical Materials and Influence of Light on Antibacterial Activity of Acrinol. *Japanese Journal of Pharmaceutical Health Care and Sciences*. 2004 Jan; 30(2):72-77.

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

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