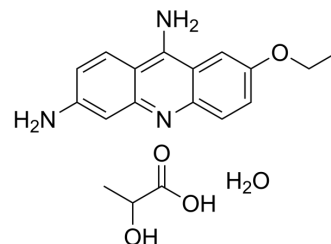


Ethacridine lactate monohydrate

Cat. No.:	HY-B0889
CAS No.:	6402-23-9
Molecular Formula:	C ₁₈ H ₂₃ N ₃ O ₅
Molecular Weight:	361.39
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (276.71 mM)
 H₂O : 2 mg/mL (5.53 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.7671 mL	13.8355 mL	27.6709 mL
	5 mM	0.5534 mL	2.7671 mL	5.5342 mL
	10 mM	0.2767 mL	1.3835 mL	2.7671 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (6.92 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.92 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ethacridine lactate (Acrinol) monohydrate is a widely used antiseptic and abortifacient. Ethacridine lactate monohydrate is effective against *Staphylococcus aureus* and other gram-positive cocci. Ethacridine lactate monohydrate 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 *Escherichia 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].

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

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.

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

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