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Product Data Sheet

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Ethacridine lactate monohydrate

Cat. No.:	HY-B0889	
CAS No.:	6402-23-9	NH ₂
Molecular Formula:	C ₁₈ H ₂₃ N ₃ O ₅	
Molecular Weight:	361.39	H ₂ N N
Target:	Bacterial	0
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)	ÓН

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL H ₂ O : 2 mg/mL (5.53 m * "≥" means soluble,				
	Preparing Stock Solutions	Solvent Mass Concentration	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 so	lubility information to select the app	propriate solvent.		
In Vivo	Solubility: ≥ 2.5 m 2. Add each solvent	one by one: 10% DMSO >> 40% PEC g/mL (6.92 mM); Clear solution one by one: 10% DMSO >> 90% (20 g/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]} .		
IC ₅₀ & 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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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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