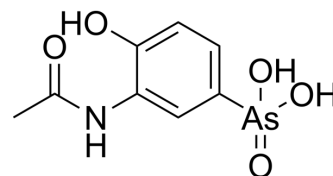


## Acetarsol

Cat. No.:	HY-B1437
CAS No.:	97-44-9
Molecular Formula:	C <sub>8</sub> H <sub>10</sub> AsNO <sub>5</sub>
Molecular Weight:	275.09
Target:	Parasite
Pathway:	Anti-infection
Storage:	<div>Powder    -20°C    3 years</div> <div>              4°C        2 years</div> <div>In solvent   -80°C    6 months</div> <div>              -20°C    1 month</div>



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 20.83 mg/mL (75.72 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div>Solvent Mass Concentration</div>	1 mg	5 mg	10 mg
		1 mM	3.6352 mL	18.1759 mL	36.3517 mL
		5 mM	0.7270 mL	3.6352 mL	7.2703 mL
		10 mM	0.3635 mL	1.8176 mL	3.6352 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.56 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (7.56 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Acetarsol (Stovarsol) is a potent and orally active anti-infective agent. Acetarsol shows anti-parasite activity. Acetarsol has the potential for the research of proctitis <sup>[1]</sup> .	
In Vivo	Acetarsol (20 mg/kg; p.o.; once daily for 4 days) shows anti-infective activity in balantidiosis of pigs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	2-month old piglets with Balantidium coli infected <sup>[1]</sup>
	Dosage:	20 mg/kg

Administration:	P.o.; once daily for 4 days
Result:	Showed 65% of piglets had clinically recovered, at the end of the treatment no diarrhoea was observed in any of the animals.

## REFERENCES

- [1]. Argyriou K, et al. Acetarsol in the management of mesalazine-refractory ulcerative proctitis: a tertiary-level care experience. Eur J Gastroenterol Hepatol. 2019 Feb;31(2):183-186.
- [2]. V.S. Pandey, et al. Successful therapy of balantidiosis of pigs with acetarsol and oxytetracycline. Veterinary parasitology. 1977, 3(2):189-193.

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

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