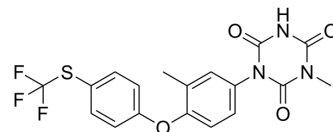


## Toltrazuril

Cat. No.:	HY-B0175
CAS No.:	69004-03-1
Molecular Formula:	C <sub>18</sub> H <sub>14</sub> F <sub>3</sub> N <sub>3</sub> O <sub>4</sub> S
Molecular Weight:	425.38
Target:	Parasite; Antibiotic
Pathway:	Anti-infection
Storage:	Powder    -20°C    3 years 4°C    2 years In solvent   -80°C    2 years -20°C    1 year



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 130 mg/mL (305.61 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div>Solvent</div> <div>Concentration</div>	Mass	1 mg	5 mg	10 mg
		1 mM		2.3508 mL	11.7542 mL	23.5084 mL
		5 mM		0.4702 mL	2.3508 mL	4.7017 mL
		10 mM		0.2351 mL	1.1754 mL	2.3508 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3.25 mg/mL (7.64 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	Toltrazuril (BAY-i 9142) is an antiprotozoal agent that acts upon Coccidia parasites.
IC <sub>50</sub> & Target	Coccidia
In Vitro	<p>Toltrazuril (BAY-i 9142) is an antiprotozoal agent that acts upon Coccidia parasites. Toltrazuril induces changes in the fine structure of coccidian development stages that are mainly due to a swelling of the endoplasmic reticulum and of the Golgi apparatus and to abnormalities in the peri-nuclear space, disturbance in nuclear division. Treated with toltrazuril showed a considerably lower mean opg to that of group C (5.78 opg versus 144.62 opg) (p &lt; 0.05) and a FOCR of 97.7 %. The higher efficacy (99.23 %) was observed at 15 days post treatment; however, the average efficacy of the drug remained extremely high (&gt; 90 %) for all the study.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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## REFERENCES

- [1]. Mehlhorn H, et al. Toltrazuril effective against a broad spectrum of protozoan parasites. Parasitol Res. 1988;75(1):64-6.
- [2]. Diaferia M, et al. Efficacy of toltrazuril 5 % suspension (Baycox?, Bayer) and diclazuril (Vecoxan, Janssen-Cilag) in the control of Eimeria spp. in lambs. Parasitol Res. 2013 Aug;112 Suppl 1:163-8.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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