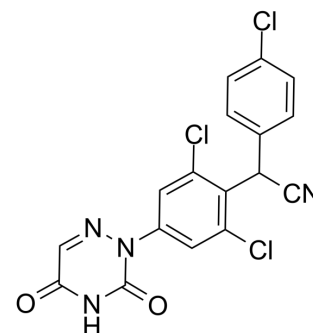


Diclazuril

Cat. No.:	HY-B0357		
CAS No.:	101831-37-2		
Molecular Formula:	C ₁₇ H ₉ Cl ₃ N ₄ O ₂		
Molecular Weight:	407.64		
Target:	Parasite; Antibiotic		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (61.33 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4531 mL	12.2657 mL	24.5314 mL
		5 mM	0.4906 mL	2.4531 mL	4.9063 mL
10 mM		0.2453 mL	1.2266 mL	2.4531 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: ≥ 2.5 mg/mL (6.13 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Diclazuril (R-64433), a benzeneacetonitrile derivative, is a potent and orally active anticoccidial agent. Diclazuril can be used for the research of certain infectious and parasitic diseases, including coccidiosis, acute toxoplasmosis, equine protozoal pyoencephalitis (EPM) et.al ^{[1][2]} .
IC₅₀ & Target	Coccidia
In Vivo	Diclazuril (R-64433) is a coccidiostat, the lambs treated with diclazuril showed an intense, persistent oocyst excretion, with average levels of 97.54 opg, considerably higher than those recorded in the animals treated with toltrazuril (p < 0.05) ^[1] . Diclazuril (R-64433) is effective against E. maxima later in its life cycle, subclinical intestinal lesions may be present for a short time after infection. Diclazuril (R-64433) was shown in studies to reduce lesion scores and improve performance and health of birds challenged with E. maxima ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- EMBO Rep. 2022 Apr 11;e53932.

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REFERENCES

[1]. Diaferia, M., et al., Efficacy of toltrazuril 5 % suspension (Baycox(R), Bayer) and diclazuril (Vecoxan(R), Janssen-Cilag) in the control of Eimeria spp. in lambs. Parasitol Res, 2013. 112 Suppl 1: p. 163-8.

[2]. <http://www.huvepharma.com/products/view/190>

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

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