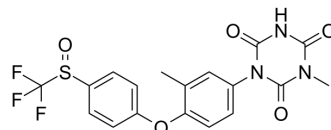


## Toltrazuril sulfoxide

<b>Cat. No.:</b>	HY-136438	
<b>CAS No.:</b>	69004-15-5	
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>14</sub> F <sub>3</sub> N <sub>3</sub> O <sub>5</sub> S	
<b>Molecular Weight:</b>	441.38	
<b>Target:</b>	Endogenous Metabolite; Parasite	
<b>Pathway:</b>	Metabolic Enzyme/Protease; Anti-infection	
<b>Storage:</b>	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 250 mg/mL (566.41 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.2656 mL	11.3281 mL	22.6562 mL
5 mM	0.4531 mL	2.2656 mL	4.5312 mL
10 mM	0.2266 mL	1.1328 mL	2.2656 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Toltrazuril sulfoxide is a short-lived intermediary metabolite of Toltrazuril (HY-B0175), and then can be metabolized to the reactive toltrazuril sulfone (TZR-SO<sub>2</sub>) in vivo. Toltrazuril is an antiprotozoal agent that acts upon Coccidia parasites<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Coccidia

### REFERENCES

[1]. Jong-Hwan Lim, et al. Pharmacokinetics of toltrazuril and its metabolites, toltrazuril sulfoxide and toltrazuril sulfone, after a single oral administration to pigs. *J Vet Med Sci.* 2010 Aug;72(8):1085-7.

[2]. H Mehlhorn, et al. Toltrazuril effective against a broad spectrum of protozoan parasites. *Parasitol Res.* 1988;75(1):64-6.

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

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