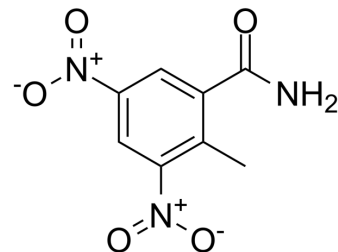


## Dinitolmide

<b>Cat. No.:</b>	HY-B1004		
<b>CAS No.:</b>	148-01-6		
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>7</sub> N <sub>3</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	225.16		
<b>Target:</b>	Parasite		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (444.13 mM)

\* "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.4413 mL	22.2064 mL	44.4129 mL
	5 mM	0.8883 mL	4.4413 mL	8.8826 mL
	10 mM	0.4441 mL	2.2206 mL	4.4413 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (11.10 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (11.10 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (11.10 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Dinitolmide (Zoalene), a fodder additive for poultry, has anti-coccidial effect. Dinitolmide can be used to prevent infections induced by Eimeria, such as Eimeria tenella, Eimeria necatrix, Eimeria brunette, and so on<sup>[1]</sup>.

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

Coccidia

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## CUSTOMER VALIDATION

- Vet Parasitol. 2023 Mar 2;316:109903.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

- [1]. Qu D, et al. Effect of dinitolmide intercalated into Montmorillonite on E. tenella infection in chickens. Parasitol Res. 2014 Mar;113(3):1233-8.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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