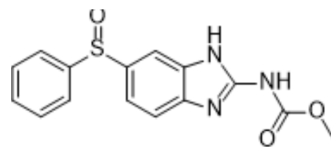


Oxfendazole

Cat. No.:	HY-B0291		
CAS No.:	53716-50-0		
Molecular Formula:	C ₁₅ H ₁₃ N ₃ O ₃ S		
Molecular Weight:	315.35		
Target:	Parasite		
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 : 31.25 mg/mL (99.10 mM; ultrasonic and warming and heat to 60°C)
 H₂O : 0.67 mg/mL (2.12 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.1711 mL	15.8554 mL	31.7108 mL
	5 mM	0.6342 mL	3.1711 mL	6.3422 mL
	10 mM	0.3171 mL	1.5855 mL	3.1711 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 (7.93 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.08 mg/mL (6.60 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (6.60 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Oxfendazole is the sulfoxide form of fenbendazole, which fights parasites.

CUSTOMER VALIDATION

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- Commun Biol. 2024 Jan 24;7(1):123.
 - bioRxiv. 2020 Jun.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Alvarez, L., et al., Efficacy of a single high oxfendazole dose against gastrointestinal nematodes in naturally infected pigs. Veterinary parasitology, 2013. 194(1): p. 70-74.

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

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