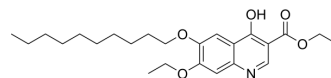


Decoquinatate

Cat. No.:	HY-B1036		
CAS No.:	18507-89-6		
Molecular Formula:	C ₂₄ H ₃₅ NO ₅		
Molecular Weight:	417.54		
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	H ₂ O : < 0.1 mg/mL (insoluble)
	DMSO : < 1 mg/mL (insoluble or slightly soluble)

BIOLOGICAL ACTIVITY

Description Decoquinatate is a quinolone derivative that can be used for research of coccidiosis in domestic ruminants. Decoquinatate also has potent activity against both Plasmodium hepatic development and red cell replication^{[1][2][3]}.

IC₅₀ & Target	Plasmodium	Coccidia
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REFERENCES

- [1]. Wang H, et al. Nanoparticle formulations of decoquinatate increase antimalarial efficacy against liver stage Plasmodium infections in mice. *Nanomedicine*. 2014 Jan;10(1):57-65.
- [2]. Beteck RM, et al. Straightforward conversion of decoquinatate into inexpensive tractable new derivatives with significant antimalarial activities. *Bioorg Med Chem Lett*. 2016 Jul 1;26(13):3006-3009.
- [3]. Taylor MA, et, al. The history of decoquinatate in the control of coccidial infections in ruminants. *J Vet Pharmacol Ther*. 2012 Oct;35(5):417-27.

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

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