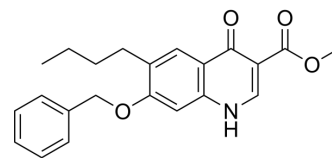


Nequinatate

Cat. No.:	HY-116433
CAS No.:	13997-19-8
Molecular Formula:	C ₂₂ H ₂₃ NO ₄
Molecular Weight:	365.42
Target:	Parasite; Xanthine Oxidase
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nequinatate, a quinoline compound, is an anticoccidial agent against cecal coccidiosis (<i>Eimeria tenella</i>) infections ^[1] . Nequinatate inhibits xanthine oxidoreductase (XOD) activity ^[2] .
IC₅₀ & Target	Coccidia
In Vitro	Xanthine oxidase (XOD) is a successful and safe drug target for lowering lower serum urate (sUA) levels, it plays an important role in the catabolism of purine. Nequinatate shows an inhibition of 12.0% to inhibit XOD activities ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. D K McLoughlin, et al. Efficacy of Nequinatate Against Thirteen Strains of *Eimeria Tenella* and the Development of a Nequinatate-Resistant Strain. *Avian Dis.* Oct-Dec 1973;17(4):717-21.

[2]. Yanfen Niu, et al. Old Drug, New Indication: Olsalazine Sodium Reduced Serum Uric Acid Levels in Mice via Inhibiting Xanthine Oxidoreductase Activity. *J Pharmacol Sci.* 2017 Nov;135(3):114-120.

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

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