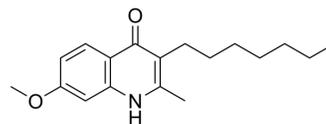


Endochin

Cat. No.:	HY-13833
CAS No.:	354155-51-4
Molecular Formula:	C ₁₈ H ₂₅ NO ₂
Molecular Weight:	287.4
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Endochin is an antimalarial agent. Endochin inhibits T.gondii with an IC ₅₀ of 0.003 nM. Endochin is also active against experimental toxoplasmosis ^{[1][2]} .
IC₅₀ & Target	Plasmodium
In Vitro	Endochin inhibits cytochrome c reduction by the T. gondii cytochrome bc1 complex, with an IC ₅₀ of 8.2 nM ^[1] . Endochin inhibits T. gondii with an IC ₅₀ of 0.003 nM ^[1] . Endochin (Compound 1) inhibits multidrug resistant W2 and TM90-C2B isolates of Plasmodium falciparum, with IC ₅₀ s of 8.59 and 46.6 nM respectively ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Doggett JS, et al. Endochin-like quinolones are highly efficacious against acute and latent experimental toxoplasmosis. Proc Natl Acad Sci U S A. 2012 Sep 25;109(39):15936-41.

[2]. Cross RM, et al. Endochin optimization: structure-activity and structure-property relationship studies of 3-substituted 2-methyl-4(1H)-quinolones with antimalarial activity. J Med Chem. 2010 Oct 14;53(19):7076-94.

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

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