## Antimalarial agent 16

Cat. No.:	HY-150066	
CAS No.:	2773408-33-4	
Molecular Formula:	$C_{30}H_{32}N_2O_6$	
Molecular Weight:	516.58	
Target:	Parasite	w <sup>11</sup> 0
Pathway:	Anti-infection	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY			
Antimalarial agent 16 (Compound 4h) is a parasite inhibitor. Antimalarial agent 16 shows antimalarial activity, and can inhibit P. falciparum parasite growth (IC <sub>50</sub> =2.0 nM) <sup>[1]</sup> .			
IC50: 2.0 nM (P. falciparum) <sup>[1]</sup>			
Antimalarial agent 16 (i.p.; 40 or 200 mg/kg; once daily; 4 days) exhibits significant in vivo antimalarial effects <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
Animal Model:	Plasmodium berghei (P. berghei) ANKA infected ICR mouse $^{[1]}$		
Dosage:	40 or 200 mg/kg		
Administration:	Intraperitoneal injection; 40 or 200 mg/kg; once daily; 4 days		
Result:	Inhibited malaria parasite growth effectively and retained parasitemia levels until day 8 post-infection at a dose of 40 mg/kg, attenuated parasitemia levels until day 8. Maintained survival rates until day 11 post-infection, but the rates decreased rapidly after day 11 at a dose of 40 mg/kg, observed a significant enhancement in survival a dose of 200 mg/kg.		
	Antimalarial agent 16 (Comp inhibit P. falciparum parasite IC50: 2.0 nM (P. falciparum) <sup>[</sup> Antimalarial agent 16 (i.p.; 4 MCE has not independently Animal Model: Dosage: Administration:		

## REFERENCES

[1]. Nobuo Cho, et al. New antimalarials identified by a cell-based phenotypic approach: Structure-activity relationships of 2,3,4,9-tetrahydro-1H-β-carboline derivatives possessing a 2-((coumarin-5-yl)oxy)alkanoyl moiety. Bioorg Med Chem. 2022 Jul 15;66:116830.

## Product Data Sheet

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

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