## Antimalarial agent 14

Cat. No.:	HY-114197	
CAS No.:	1150-59-0	O II
Molecular Formula:	C <sub>16</sub> H <sub>10</sub> O <sub>3</sub>	~ ㅅ / 아
Molecular Weight:	250.25	ſ Ĭ Ĭ
Target:	Mitochondrial Metabolism; Parasite	
Pathway:	Metabolic Enzyme/Protease; Anti-infection	
Storage:	Please store the product under the recommended conditions in the Certificate of	0 🗸
	Analysis.	

Product Data Sheet

BIOLOGICAL ACTIVITY			
Description	Antimalarial agent 14 (Compound N3) is a potent inhibitor of mitochondrial electron transport. Antimalarial agent 14 can serve as an anti-malarial agent <sup>[1]</sup> .		
IC <sub>50</sub> & Target	Plasmodium		
In Vitro	Antimalarial agent 14 (Compound N3) (0-400 μM, 48 h) inhibits P. falciparum with limited cytotoxicity against human cells <sup>[1]</sup> . Antimalarial agent 14 inhibits P. falciparum mitochondrial membrane potential with an IC <sub>50ΔΨmit</sub> of 16 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay <sup>[1]</sup>		
	Cell Line:	P. falciparum and HEK293T	
	Concentration:	0.128, 0.64, 3.2, 16, 80 and 400 μM	
	Incubation Time:	48 h	
	Result:	Showed inhibition with an IC_{50} of 443 nM against P. falciparum and showed cytotoxicity with a CC_{50} of 54.6 $\pm$ 0.23 $\mu$ M.	

## REFERENCES

[1]. Schuck DC, et al. Biological evaluation of hydroxynaphthoquinones as anti-malarials. Malar J. 2013 Jul 10;12:234.

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

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