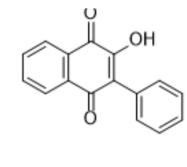
Antimalarial agent 14

Cat. No.:	HY-114197		
CAS No.:	1150-59-0		
Molecular Formula:	C ₁₆ H ₁₀ O ₃		
Molecular Weight:	250.25		
Target:	Mitochondrial Metabolism; Parasite		
Pathway:	Metabolic E	inzyme/P	rotease; Anti-infection
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.9960 mL	19.9800 mL	39.9600 mL
	5 mM	0.7992 mL	3.9960 mL	7.9920 mL	
	10 mM	0.3996 mL	1.9980 mL	3.9960 mL	

BIOLOGICAL ACTI	VITY			
Description	Antimalarial agent 14 (Compound N3) is a potent inhibitor of mitochondrial electron transport. Antimalarial agent 14 can serve as an anti-malarial agent ^[1] .			
IC ₅₀ & Target	Plasmodium			
In Vitro	Antimalarial agent 14 (Compound N3) (0-400 μM, 48 h) inhibits P. falciparum with limited cytotoxicity against human cells ^[1] . Antimalarial agent 14 inhibits P. falciparum mitochondrial membrane potential with an IC _{50ΔΨmit} of 16 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay ^[1]			
	Cell Line:	P. falciparum and HEK293T		
	Concentration:	0.128, 0.64, 3.2, 16, 80 and 400 μM		
	Incubation Time:	48 h		



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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