Artemether-d₃

MedChemExpress

Cat. No.:	HY-N0402S				
CAS No.:	93787-85-0				
Molecular Formula:	C ₁₆ H ₂₃ D ₃ O ₅				
Molecular Weight:	301.39				
Target:	Parasite; Isotope-Labeled Compounds				
Pathway:	Anti-infection; Others				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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SOLVENT & SOLUBILITY

DMSO : 100 mg/mL (. H ₂ O : 0.1 mg/mL (0.3 H ₂ O : 0.1 mg/mL (0.3	331.80 mM; Need ultrasonic) 33 mM; Need ultrasonic) 33 mM; Need ultrasonic)					
Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
	1 mM	3.3180 mL	16.5898 mL	33.1796 ml		
	5 mM	0.6636 mL	3.3180 mL	6.6359 mL		
	10 mM	0.3318 mL	1.6590 mL	3.3180 mL		

BIOLOGICAL ACTIVITY				
Description	Artemether-d ₃ is the deuterium labeled Artemether. Artemether is an antimalarial for the treatment of resistant strains of falciparum malaria.			
IC ₅₀ & Target	Plasmodium			
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

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[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Xiao, S., et al., Recent investigations of artemether, a novel agent for the prevention of schistosomiasis japonica, mansoni and haematobia. Acta Trop, 2002. 82(2): p. 175-81.

[3]. Wu, Z.P., et al., Inhibitive effect of artemether on tumor growth and angiogenesis in the rat C6 orthotopic brain gliomas model. Integr Cancer Ther, 2009. 8(1): p. 88-92.

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

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