Artefenomel

®

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-16762 1029939-86-3 $C_{_{28}}H_{_{39}}NO_{_{5}}$ 469.61 Parasite; Ferroptosis; SARS-CoV Anti-infection; Apoptosis	
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)	

SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1294 mL	10.6471 mL	21.2943 mL
Stock Solutions	5 mM	0.4259 mL	2.1294 mL	4.2589 mL
	10 mM			

BIOLOGICAL ACTIV	ИТҮ		
Description	Artefenomel (OZ439) is an orally active, synthetic anti-malarial compound containing an artemisinin pharmacophore with a mechanism of action similar to that of artemisinin. Artefenomel has antiviral activity against SARS-CoV-2 ^{[1][2]} .		
In Vitro	Artefenomel (0.3-300 μM) r cytotoxicity at concentration Artefenomel (33-100 μM) ca manner with an IC ₅₀ of 2.9 Artefenomel (0-10 μg/mL) a and macroscopic abnorma	an completely prevent the virus-induced CPE and inhibit SARS-CoV-2 in a dose-dependent	
	Cell Line:	embryos from pregnant Crl:CD(SD)BR rats	
	Concentration:	0.1, 1, 2, 5, 7.5, and 10 μg/mL	

Product Data Sheet

Incubation Time:	
Result:	Showed a slightly shortened tail or slightly delayed telencephalic vesicles at 5 μ g/mL, a decrease in the number of circulating red blood cells at 7.5 μ g/mL and an arrhythmogeni heartbeat at 10 μ g/mL.

CUSTOMER VALIDATION

• Vet Parasitol. 2023 Oct 20, 110055.

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REFERENCES

[1]. Joëlle Jourdan, et al. Monoclonal Antibodies That Recognize the Alkylation Signature of Antimalarial Ozonides OZ277 (Arterolane) and OZ439 (Artefenomel). ACS Infect Dis. 2016 Jan 8;2(1):54-61.

[2]. Tania Massignan, et al. Antimalarial Artefenomel Inhibits Human SARS-CoV-2 Replication in Cells while Suppressing the Receptor ACE2.

[3]. Robert L Clark, et al. Improved safety margin for embryotoxicity in rats for the new endoperoxide artefenomel (OZ439) as compared to artesunate. Birth Defects Res. 2018 Apr 17;110(7):553-578.

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

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