

	value of 1.0 nM. It also exhibited similar inhibition against several drug-resistant strains. Besides, DDD107498 was more potent than artesunate against a range of clinical isolates of both <i>P. falciparum</i> and <i>P. vivax</i> with the EC50 values of 0.81 nM and 0.51 nM respectively. In addition, the compound was non-toxic to human MRC5 and Hep-G2 cells at much higher concentrations.	
In Vivo	Animal experiment	
	Animal models:	NOD-scid IL-2R _{null} mice engrafted with human erythrocytes and infected with <i>P. falciparum</i> strain 3D70087/N9
	Dosage form:	0.1, 0.3, 0.6, 1 or 3 mg/kg/day; p.o.; for 4 days
	Applications:	In NOD-scid IL-2R _{null} mice engrafted with human erythrocytes and infected with <i>P. falciparum</i> strain 3D70087/N9, which were orally dosed daily for 4 days, the ED90 value on day 7 after infection was 0.95 mg/kg/day. Blood sampling from the infected SCID mice suggested the minimum parasitocidal concentration for DDD107498 was 10 ~ 13 ng/mL for asexual blood-stage infections.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

- Christine Moore Sheridan."Probing Translational Regulation by the Malaria Parasite Plasmodium falciparum: Applying a Novel In Vitro Assay to Identify Genetic Determinants of Regulation and Identify Small Molecules Exploiting *P. falciparum* Translation as a Drug Target."University of California.2019.
- Christine Moore Sheridan, Valentina E. Garcia, et al. "The Plasmodium falciparum cytoplasmic translation apparatus: a promising therapeutic target not yet exploited by clinically approved antimalarials." bioRxiv. 2018 September 12.

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References

- [1]. Baragaa B, Hallyburton I, Lee MC et al. A novel multiple-stage antimalarial agent that inhibits protein synthesis. Nature. 2015 Jun 18;522(7556):315-20.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

