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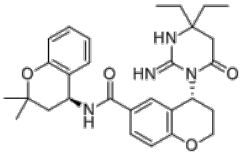
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	WM382
Cat. No.	:	PC-49829
CAS No.	:	2606990-92-3
Molecular Formula	:	$C_{29}H_{36}N_4O_4$
Molecular Weight	:	504.63
Target	:	Parasite
Solubility	:	10 mM in DMSO



Biological Activity

WM382 (WM-382) is a potent, specific dual inhibitor of the aspartic proteases **Plasmepsin** IX and X (**PMIX** and **PMX**) with IC50 of 0.06 nM (PMX), blocks multiple stages of the Plasmodium life cycle.
WM382 displays no activity against the P. falciparum aspartic protease PMV (>300,000-fold).
WM382 inhibits P. falciparum and P. knowlesi growth with EC50s of 0.6 nM and 0.2 nM, respectively.
WM382 is not cross-resistant to other antimalarial drugs (chloroquine, mefloquine, artemisinin, and atovaquone).
WM382 (2.5 nM) potently inhibited egress of merozoites from the erythrocyte.
WM382 (20 mpk, orally administered twice daily (b.i.d. dosage)) suppresses P. berghei and P. falciparum infection infection in mice infected models.
WM382 prevents transmission to mosquitoes and transition from liver to blood infection.

References

de Lera Ruiz M, et al. ***ACS Med Chem Lett.*** 2022 Oct 12;13(11):1745-1754.

Favuzza P, et al. ***Cell Host Microbe.*** 2020 Apr 8;27(4):642-658.e12.

Hodder AN, et al. ***Structure.*** 2022 Jul 7;30(7):947-961.e6.

E-mail: tech@probechem.com