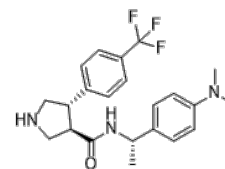


**Product Name** : CWHM-1008  
**Cat. No.** : PC-27209  
**CAS No.** : 2362539-97-5  
**Molecular Formula** : C<sub>22</sub>H<sub>26</sub>F<sub>3</sub>N<sub>3</sub>O  
**Molecular Weight** : 405.47  
**Target** : Parasite  
**Solubility** : 10 mM in DMSO



## Biological Activity

CWHM-1008 is a potent, orally efficacious **antimalarial** agent with EC<sub>50</sub> values of 46 nM and 21 nM against drug sensitive Plasmodium falciparum 3D7 and drug resistant Dd2 strains, respectively.

CWHM-1008 has equivalent potency to chloroquine (CQ) in the Pf 3D7 strain and 10-fold greater potency than CQ against the multi-drug resistant Dd2 (IC<sub>50</sub> = 21 ± 1 nM vs. CQ IC<sub>50</sub> = 196 ± 14 nM).

CWHM-1008 does not inhibit plasmepsins II, IV, V, IX or X.

CWHM-1008 is orally efficacious in a mouse model of malaria (q.d.; ED<sub>99</sub> ~ 30 mg/kg/day).

CWHM-1008 also induces apoptosis and protective autophagy through the Akt/mTOR axis on lung adenocarcinoma (LUAD) cells, inhibits the growth and induces apoptosis of A549 cell in nude mice in vivo.

## References

Meyers MJ, et al. *J Med Chem.* 2019 Apr 11;62(7):3503-3512.

Zhang J, et al. *J Oncol.* 2021 Sep 11;2021:5548128.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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