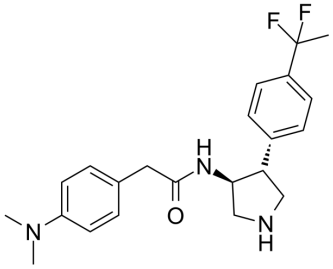
CWHM-1552

Cat. No.:	HY-128354
CAS No.:	2368253-58-9
Molecular Formula:	$C_{22}H_{27}F_2N_3O$
Molecular Weight:	387.47
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CWHM-1552 is an orally efficacious inhibitor of ***P. falciparum*** with IC_{50}s of 51 nM and 53 nM for 3D7 and Dd2 strain, respectively[1].
IC_{50} & Target	IC50: 51 nM (3D7 strain) and 53 nM (Dd2 strain)[1]
In Vivo	CWHM-1552 (Compound (-)-32a) (orally; 3-30 mg/kg/day for 4 days) inhibits parasitemia at 99.9% at 30 mg/kg/day and 94% at 10 mg/kg/day[1]. CWHM-1552 (i.v. administration; 2 mg/kg/day for 48 hours) has respectable half-lives (2.7 h) and low clearance in mice[1]. CWHM-1552 has good pharmacokinetic properties and oral efficacy in a mouse model of malaria. CWHM-1552 has an in vivo ED_{90} of <10 mg/kg/day and ED_{99} of 30 mg/kg/day, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	P. chabaudi ASS infected Mice[1]
Dosage:	3, 10, 30 mg/kg
Administration:	Orally; daily for 4 days
Result:	Inhibited parasitemia at 99.9% at 30 mg/kg/day and 94% at 10 mg/kg/day.

Animal Model:	Male KM mice[1]
Dosage:	2 mg/kg
Administration:	I.v. administration; daily
Result:	Had respectable half-lives (2.7 h) and low clearance in mice.

REFERENCES

[1]. Meyers MJ, et al. 4-Aryl Pyrrolidines as Novel Orally Efficacious Antimalarial Agents. Part 2: 2-Aryl-N-(4-arylpyrrolidin-3-yl) acetamides. ACS Med Chem Lett. 2019 May,

10(6):966-971.

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