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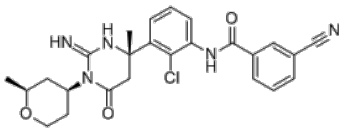
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	UCB7362
Cat. No.	:	PC-49827
CAS No.	:	2610631-17-7
Molecular Formula	:	$C_{25}H_{26}ClN_5O_3$
Molecular Weight	:	479.97
Target	:	Parasite
Solubility	:	10 mM in DMSO



Biological Activity

UCB7362 (UCB 7362) is a potent, selective inhibitor of malaria parasite **plasmepsin X (PMX)** with IC50 of 7 nM for P. falciparum (Pf PMX) and plasmodium vivax (Pv PMX), SPR Kd of 5.5 nM, also inhibits PMIX with IC50 of 142 nM.
UCB7362 displays high selectivity against Cat D and Renin with an IC50 of 3889 nM and >10,000 nM, respectively.
UCB7362 inhibits parasite growth across all strains tested regardless of geography and resistance profileasexual blood stage (ABS) assay of Pf parasites (3D7 strain, IC50=10 nM).
UCB7362 demonstrated no cross-resistance when tested against drug-resistant Plasmodium strains containing mutations generated with other compounds in development.
UCB7362 is estimated to achieve 9 log 10 unit reduction in asexual blood-stage parasites with once-daily dosing of 50 mg for 7 daysin PfSCID mouse model.

References

Martin A Lowe, et al. ***J Med Chem.*** 2022 Oct 27;65(20):14121-14143.

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

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