UCB7362

Cat. No.:HY-151568CAS No.:3031484-59-7Molecular Formula: $C_{25}H_{26}ClN_5O_3$ Molecular Weight:479.96Target:ParasitePathway:Anti-infectionStorage:Please store the product under the recommended conditions in the Certificate of Analysis.	
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BIOLOGICAL ACTIV		
Description		ve and potent antimalarial plasmepsin X (PMX) inhibitor, with an IC ₅₀ of 7 nM. UCB7362 inhibits
IC ₅₀ & Target	Plasmodium	
In Vitro	latter ^[1] . UCB7362 also demonstra respectively ^[1] .	r more potent against PMX than PMIX with an IC ₅₀ of 7 nM for the former compared to 142 nM for the ates an improvement in selectivity against Cat D and Renin with an IC ₅₀ of 3889 nM and >10,000 nM, atly confirmed the accuracy of these methods. They are for reference only.
In Vivo	UCB7362 (IV (1 mg/kg), P in rat ^[1] .	Dral administration, twice a day, for 4 days) clears parasitemia from peripheral blood ^[1] . PO (10 mg/kg); once) shows moderate clearance in dog and cynomolgus monkey and moderate-high atly confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	Pf (Plasmodium falciparum) SCID mouse model ^[1]
	Dosage:	10, 25 and 60 mg/kg
	Administration:	Oral administration, twice a day, for 4 days, with the second administration 10 h after the first one
	Result:	Cleared parasitemia from peripheral blood in a dose-dependent manner.
	Animal Model:	Sprague Dawley rat ^[1]
	Dosage:	1 mg/kg, 10 mg/kg
	Administration:	IV (1 mg/kg), PO (10 mg/kg); once (Pharmacokinetic Analysis)
	Result:	Pharmacokinetic Parameters of UCB7362 in Sprague-Dawley rats ^[1] .



	IV (1 mg/kg)	PO (10 mg/
CL (mL/(min kg))	43.9	
Vss (L/kg)	5.72	
T _{max} (h)		3
C _{max} (nM)		246
AUC ₀₋₂₄ (nM⊠h)	793	1410
t _{1/2} (h)	2.1	
F (%)		11

REFERENCES

[1]. Lowe MA, et al. Discovery and Characterization of Potent, Efficacious, Orally Available Antimalarial Plasmepsin X Inhibitors and Preclinical Safety Assessment of UCB7362. J Med Chem. 2022 Oct 10.

Caution: Product has not been fully validated for medical applications. For research use only.

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