IHVR-17028

Cat. No.:	HY-139663		
CAS No.:	1428247-78-2		
Molecular Formula:	C ₂₃ H ₄₄ N ₂ O ₅		
Molecular Weight:	429		
Target:	Glucosidase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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BIOLOGICAL ACTIV			
Description	IHVR-17028 is a potent and broad-spectrum antiviral agent. IHVR-17028 exhibits antiviral activity against BVDV, TCRV and DENV with EC ₅₀ values of 0.4 μ M, 0.26 μ M, 0.3 μ M, respectively. IHVR-17028 is a potent ER α-glucosidase I inhibitor with an IC ₅₀ of 0.24 μ M. IHVR-17028 can be used for infectious diseases research ^{[1][2]} .		
In Vitro	In virus yield reduction assays, IHVR-17028 inhibits viral activities with EC50 values of 0.4 μM, 0.26 μM, 0.3 μM for bovine viral diarrhea virus (BVDV) (NADL strain), tacaribe virus (TCRV) (11573 strain), DENV (serotype 2, New Guinea C), respectively. And in MTT assays, IHVR-17028 exhibits IC ₅₀ values of all >500 μM in?MDBK, Huh7.5 or BHK cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	In Pharmacokinetic analysis in rats, IHVR17028 (oral gavage; 75 mg/kg) shows a C _{max} ?value of 0.18 μg/ml; the Tmax value is 1.56 hours; and the F% value is 12% after PO administration, the T _{1/2} value is 0.88 hour after iv. adminstration ^[1] . IHVR-17028 (oral gavage; 25-50 mg/kg; treatment 1 day prior to virus challenging) exhibits significant protection in mouse model of lethal MARV infection ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	BALB/c mice are challenged with 1,000 PFU mouse adapted MARV via IP injection $^{[1]}$	
	Dosage:	50 mg/kg	
	Administration:	Treatment 1 day prior to virus challenging	
	Result:	Exhibited protection in mouse when the treatment is initiated 1 day prior to virus challenging.	
	Animal Model:	C57B1/6 mice challenged with 1,000 PFU mouse adapted $EBOV^{[1]}$	
	Dosage:	25 mg/kg	
	Administration:	Twice daily at 12 h interval; starting 4 h post infection for 10 days	
	Result:	Inhibited EBOV infection in mice.	

REFERENCES

[1]. Jinhong Chang, et al. Small molecule inhibitors of ER α-glucosidases are active against multiple hemorrhagic fever viruses. Antiviral Res. 2013 Jun;98(3):432-40.

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

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