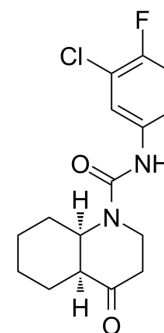


HBV-IN-20

Cat. No.:	HY-145872
CAS No.:	2750254-34-1
Molecular Formula:	C ₁₆ H ₁₈ ClFN ₂ O ₂
Molecular Weight:	324.78
Target:	HBV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HBV-IN-20 is a potent and oral active HBV inhibitor with an EC ₅₀ of 0.46 μM. HBV-IN-20 is a typical type II CpAM (core protein assembly modulators) ^[1] .							
IC₅₀ & Target	EC ₅₀ : 0.46 μM (HBV) ^[1]							
In Vitro	HBV-IN-20 (compound 61) (5 μM; 6 days) is a typical type II CpAM (core protein assembly modulators) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]							
	Cell Line:	HepDES19 cells						
	Concentration:	5 μM						
	Incubation Time:							
	Result:	Was a typical type II CpAM (core protein assembly modulators).						
In Vivo	HBV-IN-20 (3 mg/kg for i.v.; 10 mg/kg for p.o.) shows 69% of oral bioavailability ^[1] . Pharmacokinetic Parameters of HBV-IN-20 in mouse ^[1] .							
	Compd	Admin.	Cl-obs (mL/min/kg)	T _{1/2} (hr)	AUC _{last} (h*ng/mL)	V _{SS} -obs (L/kg)	C _{max} (ng/mL)	F (%)
	61	i.v.	25.5	0.6	1952	0.8		
		p.o.		0.7	4516		2727	69
	Mouse; 3 mg/kg for i.v.; 10 mg/kg for p.o. MCE has not independently confirmed the accuracy of these methods. They are for reference only.							
Animal Model:	Mouse ^[1]							

Dosage:	
Administration:	3 mg/kg for i.v.; 10 mg/kg for p.o.
Result:	Showed 69% of oral bioavailability.

REFERENCES

[1]. Hwang N, et al. 4-Oxo-octahydroquinoline-1(2H)-carboxamides as hepatitis B virus (HBV) capsid core protein assembly modulators. *Bioorg Med Chem Lett.* 2022; 58:128518.

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

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