HCV-IN-38

®

MedChemExpress

Cat. No.:	HY-115989	
Molecular Formula:	C ₂₂ H ₂₄ ClF ₃ N ₄ O ₄	
Molecular Weight:	500.9	
Target:	HCV	
Pathway:	Anti-infection	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	CI



°C Cl	0 I	N H	N F F	

Product Data Sheet

BIOLOGICAL ACTIV				
Description				I=431). HCV-IN-38 has high anti-HCV activity rofile ^[1] .
IC ₅₀ & Target	EC ₅₀ : 15 nM (HCV) in Huh7.5	cells ^[1]		
In Vitro	HCV-IN-38 (compound 80) (0 =6.47 μM in Huh7.5 cells ^[1] . HCV-IN-38 (2 μM; 2 hours) ha MCE has not independently Cell Cytotoxicity Assay	as moderate permeabili	ity (0.5 < P _{app} < 2.5 (×10 ⁻⁶ cr	
	Cell Line:	Huh7.5 cells ^[1]		
	Concentration:	0-20 μM		
	Incubation Time:	72 hours		
	Result:	Exhibited low cytote	oxicity with CC_{50} =6.47 µM.	
In Vivo	1502 ng h/mL, medium in vi	10 mg/kg for p.o., single vo clearance (38.3 mL/r p., single) has modest sa	e) exhibits satisfying PK pro nin/kg), C _{max} of 452 ng/mL afety profiles with LD ₅₀ valu	_{human} =19.9 h) ^[1] . perties with an oral total exposure (AUC) of , and moderate bioavailability of 34% ^[1] . ues higher than 150 mg/kg ^[1] .
			IV (2 mg/kg)	PO (10 mg/kg)
	AUC _{0-last} (ng·h/n	nL)	889 ± 179	1502 ± 342
	AUC _{0-inf} (ng·h/m	ıL)	898 ± 184	1525 ± 360

MRT _{0-last} (h)	1.36 ± 0.182	2.95 ± 0.276
MRT _{0-inf} (h)	1.45 ± 0.211	3.10 ± 0.290
C _{max} (ng/mL)		452 ± 149
T _{1/2} (h)	1.24 ± 0.101	1.90 ± 0.492
T _{last} (h)	8.00	12.0
T _{max} (h)		1.00
Vd _{ss} (L/kg)	3.26 ± 0.426	
Cl (mL/min/kg)	38.3 ± 8.89	
F (%)	34	

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	SD rats (180-220 g, n=3) ^[1]
Dosage:	2 or 10 mg/kg
Administration:	i.v. and p.o., single (Pharmacokinetic Analysis)
Result:	Exhibited satisfying PK properties with an oral total exposure (AUC) of 1502 ng h/mL, medium in vivo clearance (38.3 mL/min/kg), C _{max} of 452 ng/mL, and moderate bioavailability of 34%.
Animal Model:	Kunming mice (n=6) ^[1]
Dosage:	50, 100, 150, and 200 mg/kg
Administration:	i.p., single

REFERENCES

[1]. Liu Y, et al. Synthesis and structure-activity relationship study of new biaryl amide derivatives and their inhibitory effects against hepatitis C virus. Eur J Med Chem. 2022;228:114033.

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

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