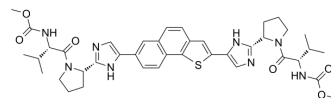


HCV-IN-7

Cat. No.:	HY-133018
CAS No.:	1449756-86-8
Molecular Formula:	C ₄₀ H ₄₈ N ₈ O ₆ S
Molecular Weight:	768.92
Target:	HCV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HCV-IN-7 is an orally active and potent pan-genotypic HCV NS5A inhibitor with IC ₅₀ s of 3-47 pM. HCV-IN-7 shows a superior pan-genotypic profile and a good pharmacokinetic profile coupled with a favorable liver uptake. HCV-IN-7 has anti-viral activity ^[1] .
IC₅₀ & Target	IC ₅₀ : 3-47 pM (genotypic HCV NS5A) ^[1]
In Vitro	<p>HCV-IN-7 inhibits GT1b (IC₅₀=12 pM), GT2a (IC₅₀=5 pM), GT1a (IC₅₀=27 pM), GT3a (IC₅₀=47 pM), GT4a (IC₅₀=3 pM), GT6a (IC₅₀=28 pM)^[1].</p> <p>HCV-IN-7 (10 μM) has 12%, 42%, 12% inhibition for CYP2D6, CYP2C9, CYP3A4, respectively^[1].</p> <p>HCV-IN-7 (10 μM) has cytotoxicity of 14%, 22%, 36% in Huh7, HepG2 and HEK cells, respectively^[1].</p> <p>HCV-IN-7 has a less complex central tricyclic core as novel and potent pan-genotypic NS5A inhibitors with good pharmacokinetic profile^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
In Vivo	<p>HCV-IN-7 (iv; 1 mg/kg) has a T_{1/2} of 2 hours, CL of 11 mL/min/kg, and a V_{ss} of 2 L/kg for rats^[1].</p> <p>HCV-IN-7 (po; 10 mg/kg) has a C_{max} of 1 μM and an AUC_{last} of 6 μM for rats^[1].</p> <p>HCV-IN-7 (iv; 1 mg/kg) has a T_{1/2} of 4 hours, a CL of 6 mL/min/kg, and a V_{ss} of 2 L/kg for dog^[1].</p> <p>HCV-IN-7 (po; 10 mg/kg) has a C_{max} of 5 μM and an AUC_{last} of 49 μM for dog^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Ramdas V, et al. Discovery and Characterization of Potent Pan-Genotypic HCV NS5A Inhibitors Containing Novel Tricyclic Central Core Leading to Clinical Candidate. J Med Chem. 2019 Dec 12;62(23):10563-10582.

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

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