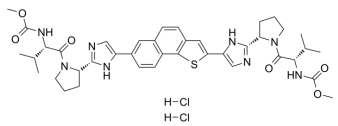
HCV-IN-7 hydrochloride

Cat. No.:	HY-133018A
CAS No.:	1449756-87-9
Molecular Formula:	$C_{40}H_{50}Cl_2N_8O_6S$
Molecular Weight:	841.85
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 hydrochloride is an orally active and potent pan-genotypic HCV NS5A inhibitor with IC_{50}s of 3-47 pM. HCV-IN-7 hydrochloride shows a superior pan-genotypic profile and a good pharmacokinetic profile coupled with a favorable liver uptake. HCV-IN-7 hydrochloride has anti-viral activity[1].
IC_{50} & Target	IC50: 3-47 pM (genotypic HCV NS5A)[1]
In Vitro	HCV-IN-7 hydrochloride inhibits GT1b (IC_{50}=12 pM), GT2a (IC_{50}=5 pM), GT1a (IC_{50}=27 pM), GT3a (IC_{50}=47 pM), GT4a (IC_{50}=3 pM), GT6a (IC_{50}=28 pM)[1]. HCV-IN-7 hydrochloride (10 μM) has 12%, 42%, 12% inhibition for CYP2D6, CYP2C9, CYP3A4, respectively[1]. HCV-IN-7 hydrochloride (10 μM) has cytotoxicity of 14%, 22%, 36% in Huh7, HepG2 and HEK cells, respectively[1]. HCV-IN-7 hydrochloride has a less complex central tricyclic core as novel and potent pan-genotypic NS5A inhibitors with good pharmacokinetic profile[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	HCV-IN-7 hydrochloride (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]. HCV-IN-7 hydrochloride (po; 10 mg/kg) has a C_{max} of 1 μM and an AUC_{last} of 6 μM for rats[1]. HCV-IN-7 hydrochloride (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]. HCV-IN-7 hydrochloride (po; 10 mg/kg) has a C_{max} of 5 μM and an AUC_{last} of 49 μM for dog[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA