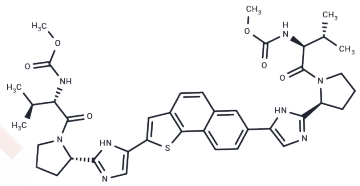
Data Sheet (Cat.No.T11548)

TargetMol

HCV-IN-7

Chemical Properties



CAS No. : 1449756-86-8

Formula: C40H48N8O6S

Molecular Weight: 768.92

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	HCV-IN-7 is an orally active and potent pan-genotypic HCV NS5A inhibitor (IC50s: 3-47 pM) with a superior pan-genotypic profile, good pharmacokinetic properties, and favorable liver uptake.
Targets(IC50)	Others,HCV Protease
In vitro	HCV-IN-7 (10 μM) has cytotoxicity of 14%, 22%, 36% in Huh7, HepG2 and HEK cells, respectively. ?HCV-IN-7 has a less complex central tricyclic core as novel and potent pan-genotypic NS5A inhibitors with good pharmacokinetic profile.?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). ?HCV-IN-7 (10 μM) has 12%, 42%, 12% inhibition for CYP2D6, CYP2C9, CYP3A4, respectively.
In vivo	HCV-IN-7 (iv; 1 mg/kg) exhibits a T1/2 of 4 hours, CL of 6 mL/min/kg, and Vss of 2 L/kg in dogs, while (po; 10 mg/kg) it has a Cmax of 5 μM and AUClast of 49 μM. In rats, HCV-IN-7 (iv; 1 mg/kg) shows a T1/2 of 2 hours, CL of 11 mL/min/kg, and Vss of 2 L/kg, with (po; 10 mg/kg) a Cmax of 1 μM and AUClast of 6 μM.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3005 mL	6.5026 mL	13.0053 mL
5 mM	0.2601 mL	1.3005 mL	2.6011 mL
10 mM	0.1301 mL	0.6503 mL	1.3005 mL
50 mM	0.026 mL	0.1301 mL	0.2601 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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