

HBV-IN-25

Chemical Properties

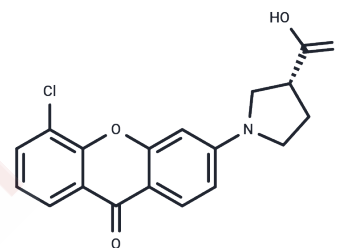
CAS No. : 2161364-69-6

Formula: C₁₈H₁₄ClNO₄

Molecular Weight: 343.76

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	HBV-IN-25 is a novel chemical compound that acts as a potent HBV cccDNA reducer when administered orally. It exhibits significant anti-HBeAg potency and anti-HBV activity, with IC ₅₀ values of 0.58 μM and 1.15 μM, respectively. Moreover, HBV-IN-25 demonstrates favorable aqueous solubility (LYSA > 452 μg/mL) and no cellular toxicity, making it a promising candidate for further investigation and development [1].
Targets(IC ₅₀)	Others,HBV
In vitro	HBV-IN-25, at concentrations ranging from 8-50 μM over a period of 5 days, exhibits anti-HBeAg potency, demonstrated by an IC ₅₀ value of 0.58 μM. Additionally, its anti-HBV activity in primary human hepatocytes (PHH) remains consistent or shows a slight decrease, with an IC ₅₀ value of 1.15 μM [1].
In vivo	HBV-IN-25, administered orally at doses of 5, 20, 100, and 300 mg/kg, exhibits favorable pharmacokinetic (PK) attributes and demonstrates remarkable effectiveness in markedly lowering levels of HBV antigens, DNA, and intrahepatic cccDNA as evidenced in the HBVcircle mouse model. The pharmacokinetic parameters for each dosage showed a proportional increase in both maximum concentration (C _{max}) and area under the curve (AUC), indicating significant drug absorption and sustained presence in the system. Furthermore, dose-dependent effects were observed in terminal body weight changes, spinal cord inflammation, demyelination, and the count of apoptotic cells in spinal cord sections, thereby underscoring the compound's efficacy and potential therapeutic implications.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.909 mL	14.545 mL	29.0901 mL
5 mM	0.5818 mL	2.909 mL	5.818 mL
10 mM	0.2909 mL	1.4545 mL	2.909 mL
50 mM	0.0582 mL	0.2909 mL	0.5818 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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