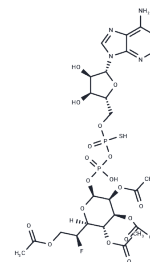


DF-006

Chemical Properties

CAS No. : 2311947-41-6
 Formula: C₂₅H₃₄FN₅O₁₈P₂S
 Molecular Weight: 805.57
 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	DF-006 is an innovative orally active agonist of ALPK1 (α -kinase 1). It stimulates the innate immune response in the liver by activating the NF- κ B pathway. DF-006 effectively reduces serum levels of hepatitis B virus (HBV) DNA (EC ₅₀ = 2.7 pM), HBsAg, and HBeAg, demonstrating potent antiviral activity, making it suitable for immunotherapy research in chronic hepatitis B (CHB).
Targets(IC ₅₀)	HBV
In vitro	DF-006 (0.3 pM-10 nM; 10 days) significantly inhibits HBV DNA replication in primary human hepatocytes (PHH) with an EC ₅₀ of 2.7 pM, while not reducing cccDNA levels.
In vivo	DF-006, administered orally at doses ranging from 0.02 to 25 μ g/kg over a period of 21 to 28 days, results in a reduction of serum HBV DNA by up to 2.4 log ₁₀ , decreases HBsAg by 0.66 log ₁₀ , reduces HBeAg, and lowers intrahepatic HBeAg by 57% and HBsAg.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2414 mL	6.2068 mL	12.4136 mL
5 mM	0.2483 mL	1.2414 mL	2.4827 mL
10 mM	0.1241 mL	0.6207 mL	1.2414 mL
50 mM	0.0248 mL	0.1241 mL	0.2483 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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