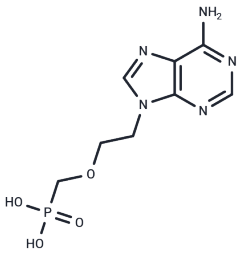
Data Sheet (Cat.No.T7447)

TargetMol

Adefovir

Chemical Properties



CAS No. : 106941-25-7

Formula: C8H12N5O4P

Molecular Weight: 273.19

Storage: Store at low temperature
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	Adefovir is an acyclic nucleoside phosphonate that acts as a reverse transcriptase inhibitor used for treatment of hepatitis B and herpes simplex virus infection.
Targets(IC50)	Reverse Transcriptase,HBV,Telomerase
In vitro	adefovir is a potent inhibitor of DHBV replication that inhibits CCC DNA amplification but does not effectively prevent the formation of CCC DNA from incoming viral genomes[1].
Cell Research	The effect of adefovir on viral CCC DNA synthesis was examined with primary cultures of DHBV-infected fetal hepatocytes.?Adefovir was administered for six consecutive days starting one day before or four days after DHBV inoculation.?Dose-dependent inhibition of both virion release in culture supernatants and synthesis of intracellular viral DNA was observed[1].

Solubility Information

Solubility	H2O: 2.5 mM,Sonication is recommended. DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6605 mL	18.3023 mL	36.6046 mL
5 mM	0.7321 mL	3.6605 mL	7.3209 mL
10 mM	0.366 mL	1.8302 mL	3.6605 mL
50 mM	0.0732 mL	0.366 mL	0.7321 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

Delmas J , Schorr O , Jamard C , et al. Inhibitory Effect of Adefovir on Viral DNA Synthesis and Covalently Closed Circular DNA Formation in Duck Hepatitis B Virus-Infected Hepatocytes In Vivo and In Vitro[J]. Antimicrobial Agents and Chemotherapy, 2002, 46(2):425-433.

Park S , Kim W I , Cho D H , et al. Adefovir-induced Fanconi syndrome associated with osteomalacia[J]. Clinical and molecular hepatology, 2017, 24(3).

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481