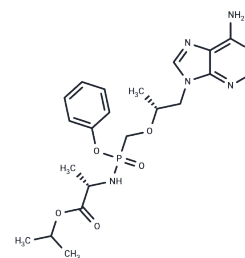


Tenofovir alafenamide

Chemical Properties

CAS No. :	379270-37-8
Formula:	C ₂₁ H ₂₉ N ₆ O ₅ P
Molecular Weight:	476.47
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Tenofovir alafenamide (GS-7340) is a nucleotide reverse transcriptase inhibitor (NRTI) and a novel ester prodrug of the antiretroviral tenofovir.
Targets(IC50)	HIV Protease,Reverse Transcriptase
In vitro	GS-7340 has a potent anti-HIV activity with IC ₅₀ of 0.005 μM. [1] GS 7340 has a half-life of 90 min in human plasma and a half-life of 28.3 min in an MT-2 cell extract at 37°C. [2] the hepatic uptake of GS-7340 is facilitated by OATP1B1 and OATP1B3, respectively. GS-7340 inhibits HBV reverse transcriptase after being converted to the pharmacologically active form, TFOV-DP. [3]
In vivo	In male beagle dogs, GS 7340 (10 mg/kg, p.o.) results in an enhanced distribution to lymphatic tissue. [2]

Solubility Information

Solubility	DMSO: 55 mg/mL (115.43 mM), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 88 mg/mL (184.7 mM), < 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0988 mL	10.4938 mL	20.9877 mL
5 mM	0.4198 mL	2.0988 mL	4.1975 mL
10 mM	0.2099 mL	1.0494 mL	2.0988 mL
50 mM	0.042 mL	0.2099 mL	0.4198 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.

Reference

Fical L, Khalikova M, Kočová Vlčková H, et al. Determination of Antiviral Drugs and Their Metabolites Using Micro-Solid Phase Extraction and UHPLC-MS/MS in Reversed-Phase and Hydrophilic Interaction Chromatography Modes.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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