



Product Information

Reverse transcriptase inhibitor GS-7340, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ019

Size: 5 mg; 10 mg; 25 mg; 50 mg

MDL: MFCD23843796

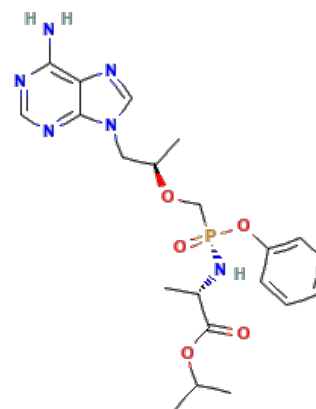
CAS Number: 379270-37-8

Compound CID: 9574768

Synonym: 379270-37-8; Reverse transcriptase inhibitor; GS7340; GS 7340;

Tenofovir alafenamide

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	GS-7340, soluble in DMSO and ethanol and insoluble in water, obstructs the action of reverse transcriptase, an enzyme crucial for the replication of retroviruses like HIV. It targets reverse transcriptase.
Molecular Weight	476.47
Molecular Formula	C ₂₁ H ₂₉ N ₆ O ₅ P
Targets	Reverse transcriptase
IUPAC Name	Propan-2-yl (2S)-2-[[[(2R)-1-(6-aminopurin-9-yl)propan-2-yl]oxymethyl-phenoxyphosphoryl]amino]propanoate
InChI	InChI=1S/C21H29N6O5P/c1-14(2)31-21(28)16(4)26-33(29,32-17-8-6-5-7-9-17)13-30-15(3)10-27-12-25-18-19(22)23-11-24-20(18)27/h5-9,11-12,14-16H,10,13H2,1-4H3,(H,26,29)(H2,22,23,24)/t15-,16+,33+/m1/s1
InChI Key	LDEKQSIMHVQZJK-CAQYMETFSA-N
Canonical SMILES	CC(C)OC(=O)C(C)NP(=O)(COC(C)CN1C=NC2=C(N=CN=C21)N)OC3=CC=CC=C3
Isomeric SMILES	C[C@H](CN1C=NC2=C(N=CN=C21)N)OC[P@@](=O)(N[C@@H](C)C(=O)OC(C)C)OC3=CC=CC=C3
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 94 mg/mL (197.28 mM); Water: Insoluble; Ethanol: 94 mg/mL (197.28 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.



Quality Level	Research grade
Applications	GS-7340 is a reverse transcriptase inhibitor used in research to inhibit HIV reverse transcriptase, helping to study the replication process of HIV and potentially halt disease progression.
Storage	Store at -20°C, and keep desiccated.
