

Tenofovir disoproxil fumarate

Catalog No. HRP-10198

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Product Description:

Tenofovir disoproxil fumarate is a prodrug of Tenofovir (brand name: Viread®; available as Catalog No. HRP-10199). Cellular enzymes convert tenofovir disoproxil fumarate to tenofovir diphosphate. Tenofovir diphosphate inhibits the activity of human immunodeficiency virus (HIV) reverse transcriptase by competing with the natural substrate, deoxyadenosine 5'-triphosphate, which causes chain termination after incorporation. Tenofovir diphosphate is a weak inhibitor of mammalian DNA polymerases.

Lot: 70065087

Receipt Date: 13DEC2023

All information below was provided on 18SEP2023 by AK Scientific, Inc. for the bulk material (AK Scientific, Inc. lot LC62422), which has a retest date of 18SEP2028.

Chemical Name	Bis{[(isopropoxycarbonyl)oxy]methyl}({[(2R)-1-(6-amino-9H-purin-9-yl)-2-propanyloxy]methyl)phosphonate (2E)-2-butenedioate (1:1)
Structure	
Formula	C ₁₉ H ₃₀ N ₅ O ₁₀ P • C ₄ H ₄ O ₄
Molecular Weight	635.51
CAS Number	202138-50-9
Content per Vial	20.0 mg ± 0.3 mg
Appearance	White powder
Purity (HPLC)	99.1%
Melting Point	117°C to 120°C
Mass Spectrometry	Spectrum consistent with structure
¹H-NMR	Spectrum consistent with structure
FT-IR	Spectrum consistent with structure

/Kenneth R. Crawford/

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13 FEB 2024

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