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CERTIFICATE OF ANALYSIS

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1. Identification

CAS Number:

202138-50-9

Catalogue Number:

T018505

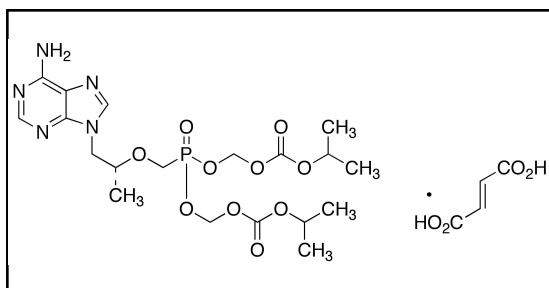
Product:

Tenofovir Disoproxil Fumarate

Synonyms:

5-[[[(1R)-2-(6-Amino-9H-purin-9-yl)-1-methylethoxy]methyl]-2,4,6,8-tetraoxa-5-phosphanonedioic Acid 1,9-Bis(1-methylethyl) Ester 5-Oxide (2E)-2-Butenedioate; GS 4331-05; PMPA Prodrug; Tenofovir DF; Virea; Viread;

Structure:



Molecular Formula:

C₂₃H₃₄N₅O₁₄P

Molecular Weight:

635.51

Source of Product:

2. Analytical Information

Lot Number:

2-GBL-170-1

Melting Point:

115 - 116°C

Boiling Point:

N/A

Atmosphere:

Air

Appearance of Product:

White Solid

Solubility

DMSO, Methanol

Method for Determining Identity:

¹H NMR (DMSO-d₆), ³¹P NMR (DMSO-d₆), and MS

Stability

Not determined

Purity:

98%

Long Term Storage Condition:

Refrigerator

Additional Information:

TLC Conditions: C₁₈; Methanol : Water = 1 : 1; Visualized with UV and KMnO₄; R_f = 0.30.

¹H NMR, ³¹P NMR and MS conform to structure.

Elemental Analysis: (Found) %C: 43.46, %H: 5.28, %N:11.02; (Calculated) %C: 43.47, %H: 5.39, %N: 11.02

Philip Chan, Quality Control Supervisor

QC Test Date

February 7, 2014

Retest Date

February 5, 2017