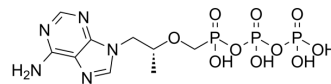


Tenofovir diphosphate

Cat. No.:	HY-136548
CAS No.:	166403-66-3
Molecular Formula:	C ₉ H ₁₆ N ₅ O ₁₀ P ₃
Molecular Weight:	447.17
Target:	Reverse Transcriptase
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tenofovir diphosphate (TFV-DP) is a competitive DNA polymerases inhibitor (with respect to dATP) and a substrate of HIV type 1 (HIV-1) reverse transcriptase (RT) ^[1] .
IC ₅₀ & Target	DNA polymerases; HIV-1 reverse transcriptase ^[1]
In Vitro	Tenofovir diphosphate acts as an inhibitor of DNA pol. Tenofovir-diphosphate is a weak inhibitor of DNA polymerases (pol) α, δ, and ε, with values for the K _i for PMPApp (PMPAppK _i) relative to the K _m for dATP (dATPK _m) of 10.2, 10.2, and 15.6, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- HepatoI Commun. 25 August 2021.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Gabriel Birkus, et al. Tenofovir Diphosphate Is a Poor Substrate and a Weak Inhibitor of Rat DNA Polymerases Alpha, Delta, and epsilon. Antimicrob Agents Chemother. 2002 May;46(5):1610-3.

Caution: Product has not been fully validated for medical applications. For research use only.

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