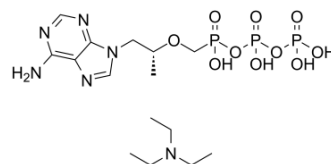


Tenofovir diphosphate triethylamine

Cat. No.:	HY-136548A
CAS No.:	2122333-63-3
Molecular Formula:	C ₁₅ H ₃₁ N ₆ O ₁₀ P ₃
Molecular Weight:	548.36
Target:	Reverse Transcriptase
Pathway:	Anti-infection
Storage:	-20°C, protect from light, stored under argon * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under argon)



BIOLOGICAL ACTIVITY

Description	Tenofovir diphosphate triethylamine (TFV-DP triethylamine) is a competitive DNA polymerases inhibitor (with respect to dATP) and a substrate of HIV type 1 (HIV-1) reverse transcriptase (RT) ^[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 (^{PMPApp} K _i) relative to the K _m for dATP (^{dATP} K _m) of 10.2, 10.2, and 15.6, respectively ^[1] .

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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