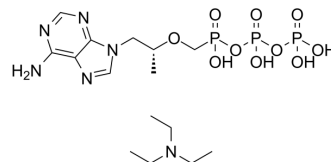


## Tenofovir diphosphate triethylamine

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



### BIOLOGICAL ACTIVITY

<b>Description</b>	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) <sup>[1]</sup> .
<b>In Vitro</b>	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 <sub>i</sub> for PMPApp (PMPAppK <sub>i</sub> ) relative to the K <sub>m</sub> for dATP (dATPK <sub>m</sub> ) of 10.2, 10.2, and 15.6, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Hepatol Commun. 25 August 2021.

See more customer validations on [www.MedChemExpress.com](http://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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA