
Product Data Sheet

Product Name: Tenofovir diphosphate triethylamine

Cat. No.: GC60358

Chemical Properties

Cas. No. 2122333-63-3

SMILES C[C@@H](OC[P](O[P](O[P](O)(O)=O)(O)=O)(O)=O)(O)=O)CN1C2=NC=NC(N)=C2N=C1.CCN(CC)CCFormula $C_{15}H_{31}N_6O_{10}P_3$ M.Wt 548.36Solubility Storage Store at $-20^{\circ}C$, protect from light, stored under nitrogenGeneral tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

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].

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].

[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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