

Tenofovir diphosphate (sodium salt)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Tenofovir diphosphate is an inhibitor of HIV reverse transcriptase ($K_{is} = 0.022$ and $1.55 \mu\text{M}$ for RNA and DNA, respectively) and hepatitis B virus (HBV) polymerase ($K_i = 0.18 \mu\text{M}$). It is selective for these enzymes over DNA polymerase α and β , as well as mitochondrial DNA polymerase γ ($K_{is} = 5.2, 81.7,$ and $59.5 \mu\text{M}$, respectively). Tenofovir diphosphate is formed intracellularly through phosphorylation of the prodrugs tenofovir and tenofovir disoproxil by nucleotide kinases. Increased levels of tenofovir diphosphate in isolated peripheral blood mononuclear cells (PBMCs) correlate with a decrease in the risk of simian HIV (SHIV) acquisition in a macaque model of rectal SHIV transmission.
Targets(IC50)	Others

Solubility Information

Solubility	Tris-HCl (pH 7.5): Soluble ($< 1 \text{ mg/ml}$ refers to the product slightly soluble or insoluble)
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Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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