

Tenofovir diphosphate (sodium salt) Biochemical

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CATALOG #
AAA227308

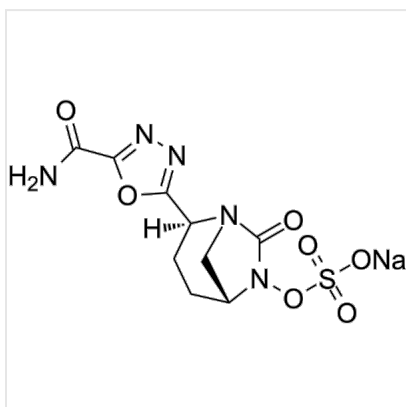
PRODUCT SYNONYMS

Tenofovir diphosphate (sodium salt); Tenofovir diphosphate (sodium salt) biochemical

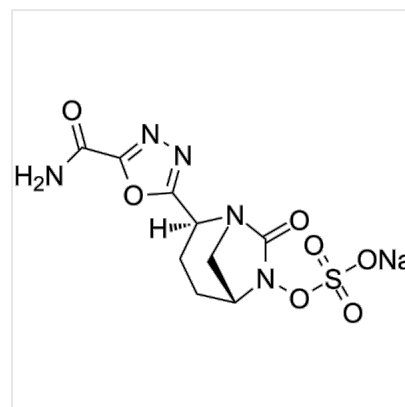
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	Tris-HCl (pH 7.5): Soluble <1mg/ml refers to the product slightly soluble or insoluble
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Antibacterial agent 39, CAS 1426572-46-4



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ADDITIONAL INFORMATION

Related Product Information for Tenofovir diphosphate (sodium salt) biochemical	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 alpha and beta, as well as mitochondrial DNA polymerase gamma ($K_{is} = 5.2, 81.7, \text{ and } 59.5 \mu\text{M}$, 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.
References	1. Sachin Bhagwat, et al. 1,6- diazabicyclo [3,2,1] octan- 7 - one derivatives and their use in the treatment of bacterial infections.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.