Tenofovir diphosphate

Cat. No.: HY-136548
CAS No.: 166403-66-3
Molecular Formula: C₉H₁₆N₅O₁₀P₃
Molecular Weight: 447.17
Target: Reverse Transcriptase
Pathway: Anti-infection
Storage: Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

<table>
<thead>
<tr>
<th>Description</th>
<th>Tenofovir diphosphate (TFV-DP) is a competitive DNA polymerases inhibitor (with respect to dATP) and a substrate of HIV type 1 (HIV-1) reverse transcriptase (RT)[1].</th>
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<tbody>
<tr>
<td>IC₅₀ &amp; Target</td>
<td>DNA polymerases; HIV-1 reverse transcriptase[1]</td>
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<td>In Vitro</td>
<td>Tenoforv diphosphate acts as an inhibitor of DNA pol. Tenoforv-diphosphate is a weak inhibitor of DNA polymerases (pol) α, δ, and ε, with values for the Kᵢ for PMPApp (PMPAppKᵢ) relative to the Kᵢ for dATP (dATPKᵢ) of 10.2, 10.2, and 15.6, respectively[1].</td>
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REFERENCES