

# Product Information

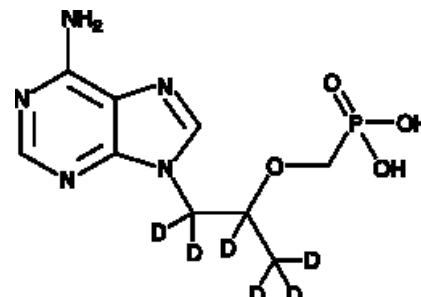


## Tenofovir-d<sub>6</sub>

Cat No: 21071 - 500 µg

### General Data

Shipping:	dry ice
Formulation:	A solid
Purity:	≥99% deuterated forms (d1-d6)



### Product Overview

Tenofovir-d<sub>6</sub> is intended for use as an internal standard for the quantification of tenofovir (Item No. 13874) by GC- or LC-MS. Tenofovir is an analog of adenosine monophosphate that has antiviral activity.<sup>{24520,24521}</sup> It is converted by cellular enzymes to tenofovir diphosphate, an obligate chain terminator that inhibits the activity of HIV reverse transcriptase and hepatitis B virus polymerase.<sup>{24519,24528}</sup> Tenofovir diphosphate is a weak inhibitor of mammalian DNA polymerases  $\alpha$  and  $\beta$  and mitochondrial DNA polymerase  $\gamma$ .<sup>{24528}</sup> For in vivo and cell culture use, tenofovir is supplied as a water soluble prodrug in the form of tenofovir disoproxil (fumarate) (Item No. 16922), which increases the intracellular diphosphorylated compound >1,000-fold above the level attained with unmodified tenofovir.

FP/14/24

For research laboratory use only – Not for human diagnostic use.

Buyers agree to purchase the material subject to Purchasing Terms that can be found on our website. Seek appropriate training to safely handle this product under normal conditions. Use the recommended personal protective equipment to prevent chemical exposures.

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