

Tenofovir disoproxil fumarate

Catalog No. HRP-10198

This reagent is the property of the U.S. Government.

For research use only. Not for use in humans.

Contributor:

NIH HIV Reagent Program

Manufacturer:

AK Scientific, Inc., Union City, California, USA

Product Description:

Tenofovir disoproxil fumarate is a prodrug of Tenofovir (brand name: Viread®; available as Catalog No. HRP-10199). Cellular enzymes convert tenofovir disoproxil fumarate to tenofovir diphosphate. Tenofovir diphosphate inhibits the activity of human immunodeficiency virus (HIV) reverse transcriptase by competing with the natural substrate, deoxyadenosine 5'-triphosphate, which causes chain termination after incorporation. Tenofovir diphosphate is a weak inhibitor of mammalian DNA polymerases.

Material Provided:

Each vial contains approximately 20 mg of tenofovir disoproxil fumarate.

Packaging/Storage:

HRP-10198 was packaged in glass vials. The product is provided at room temperature and should be stored at 4°C. Once resuspended, working aliquots can be stored at -20°C. The vial should be centrifuged prior to opening.

Solubility:

HRP-10198 is soluble in water at 13.4 mg/mL and in methanol, but only moderately soluble in ethyl acetate and methylene chloride; it is insoluble in hexanes.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Tenofovir disoproxil fumarate, HRP-10198, contributed by the NIH HIV Reagent Program."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. [Biosafety in Microbiological and Biomedical Laboratories \(BMBL\)](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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