

Lamivudine (3TC)

Catalog No. HRP-8146

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:

Lamivudine (3TC; brand name: Epivir®) is a nucleoside analog. Intracellularly, lamivudine is phosphorylated to the active 5'-triphosphate metabolite, lamivudine triphosphate. Lamivudine triphosphate inhibits the activity of human immunodeficiency virus type 1 (HIV-1) reverse transcriptase by DNA chain termination after incorporation of the nucleoside analog into viral DNA.

Material Provided:

Each vial contains approximately 20 mg of lamivudine (3TC).

Packaging/Storage:

HRP-8146 was packaged in glass vials. The product is provided at room temperature and should be stored at -20°C. Once resuspended, working aliquots can be stored at -20°C. The vial should be centrifuged prior to opening.

Solubility:

HRP-8146 is reported to be soluble in both dimethyl sulfoxide (DMSO) and water (~ 50 mg/mL), but only slightly soluble in ethanol (< 1 mg/mL).

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Lamivudine (3TC), HRP-8146, 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.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

ATCC® is a trademark of the American Type Culture Collection.



**HIV REAGENT
PROGRAM**

