DATA SHEET

For research use only. Not for use in humans.

Reagent: Human Immunodeficiency Virus Type 1 p66/p51 Reverse Transcriptase Protein, Recombinant from *Escherichia coli*

Catalog Number: ARP-3555

Lot Number: 200011

Release Category: C

Provided: Each vial of ARP-3555 contains approximately 25 µg of purified protein at 1 mg per mL in 50 mM Tris-HCl, pH 7.0, 25 mM NaCl, 1 mM EDTA, 50% (v/v) glycerol. Purity is > 95% as determined by Coomassie Blue staining.

Description: ARP-3555 is a recombinant form of full-length human immunodeficiency virus type 1 (HIV-1) p66/p51 heterodimeric (66kDa/51kDa) reverse transcriptase (RT) protein derived from a patient sample. ARP-3555 was produced in an *Escherichia coli* expression system and purified via IMAC, cation exchange and size exclusion chromatography. The protein corresponds to native heterodimeric RT, contains an N-terminal hexa-histidine tag on each subunit and is non-glycosylated. The integrity of the protein is determined immunologically with anti-RT antibodies. This protein can also be used for antibody production. The donor-provided protein sequence is available on the NIH HIV Reagent Program webpage.

Recommended Storage: ARP-3555 should be stored at -80°C or colder immediately upon arrival. Avoid freeze-thaw cycles as reagent degradation may result.

Contributors: Dr. Stuart Le Grice and Dr. Jennifer T. Miller

Reference: Le Grice, S. F., C. E. Cameron and S. J. Benkovic. "Purification and Characterization of Human Immunodeficiency Virus Type 1 Reverse Transcriptase." Methods Enzymol. 262 (1995): 130-144. PubMed: 8594344.

Citation: Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: Human Immunodeficiency Virus Type 1 p66/p51 Reverse Transcriptase Protein, Recombinant from *Escherichia coli*, ARP-3555, contributed by Dr. Stuart Le Grice and Dr. Jennifer T. Miller." Also include the reference cited above in any publications.

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers: You are authorized to use this product for research use only. It is not intended for use in humans.

Use of this product is subject to the terms and conditions of the NIH HIV Reagent Program Material Transfer Agreement (MTA). The MTA is available on our Web site at www.hivreagentprogram.org.

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Note:

ARP-3555 is limited to two aliquots per lab per year. Larger amounts can be obtained upon request from the contributor.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact the Director of Contracts and Tangible assets, Email: stacy.fening@case.edu, before the reagent can be released. Please specify the name and a description of the intended use of the reagent.

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