



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	HIV-1 p51 Reverse Transcriptase Recombinant Protein
Catalog Number:	2896
Lot Number:	160006
Provided:	25 µg of purified protein at 1 mg/ml in 50 mM Tris-HCl, pH 7.0, 25 mM NaCl, 1 mM EDTA, 50% (v/v) Glycerol.
Molecular Weight:	51 kDa
Purity:	>95% by Coomassie Blue staining.
Description:	HIV-1 p51 RT subunit recombinant protein. Clone derived from patient sample.
Special Characteristics:	<p>Produced in <i>E. coli</i> and purified via IMAC, cation exchange and size exclusion chromatography. Protein corresponds to native heterodimeric RT, contains an N-terminal 6XHis-tag on each subunit and is non-glycosylated. Integrity determined immunologically with anti-RT antibodies. This protein can also be used for antibody production.</p> <p>Donor provided sequence.</p>
Recommended Storage:	Keep at -80°C. Avoid freeze-thaw cycles as reagent degradation may result.
Contributor:	Dr. Stuart Le Grice
References:	<p>Schatz O, Mous J, Le Grice SFJ. HIV-1 RT-associated ribonuclease H displays both endonuclease and 3'----5' exonuclease activity. <i>EMBO J</i> 9: 1171-1176, 1990. Abstract.</p> <p>Le Grice SF, Naas T, Wohlgensinger B, Schatz O. Subunit-selective mutagenesis indicates minimal polymerase activity in heterodimer-associated p51 HIV-1 reverse transcriptase. <i>EMBO J</i> 10: 905-911, 1991. Abstract.</p> <p>Howard KJ, Frank KB, Sim IS, Le Grice SF. Reconstitution and properties of homologous and chimeric HIV-1.HIV-2 p66.p51 reverse transcriptase. <i>J Biol Chem</i> 266: 22602-22608, 1991. Abstract.</p>

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

Z3003-Z3009, 1991. [Abstract](#).

Lederer H, Schatz O, May R, Crespi H, Darlix JL, Le Grice SF, Heumann H. Domain structure of the human immunodeficiency virus reverse transcriptase. *EMBO J* **11**:1131-1139, 1992. [Abstract](#).

Jacques PS, Wöhrl BM, Howard KJ, Le Grice SF. Modulation of HIV-1 reverse transcriptase function in "selectively deleted" p66/p51 heterodimers. *J Biol Chem* **269**:1388-1393, 1994. [Abstract](#).

Le Grice SFJ, Cameron CE, Benkovic SJ. Purification and characterization of human immunodeficiency virus type 1 reverse transcriptase. *Methods Enzymology* **262**: 130-144, 1995. [Abstract](#).

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, NIAID, NIH: HIV-1 p51 Reverse Transcriptase Recombinant Protein from Dr. Stuart Le Grice." Also include the references cited above in any publications.

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.

Last Updated:

December 17, 2018

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