



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	HIV-1 HXB2 Reverse Transcriptase (p66 E>Q/p51)
Catalog Number:	2897
Lot Number:	040141
Provided:	20 μ l (1 mg/ml) in 50 mM Tris-HCl (pH 7.0), 25 mM NaCl, 1 mM EDTA, 50% (v/v) glycerol.
Molecular Weight:	117 kDa.
Purity:	>95%+ by Coomassie Blue and silver staining. Integrity determined immunologically with anti-RT antibodies. Specific activity \sim 30 units/ μ g, determined on poly(rA)/oligo(dT). One unit catalyzes incorporation of 1 nmole precursor into product in 10 minutes at 37°C.
Special Characteristics:	This enzyme carries a poly-histidine tag at the amino terminus of both p66 and p51. RNase H activity has been eliminated by replacing Glu478 of p66 with Gln. DNA polymerase activity remains unaffected. Can be used to study protein/nucleic acid interactions in the absence of RNase H activity. Protein was purified by a combination of metal chelate and ion exchange chromatography. Production: Produced in <i>E. coli</i> . Derived from HXB2-infected T cells. Non-glycosylated.
Recommended Storage:	-20°C.
Contributor:	Dr. Stuart Le Grice, Center For AIDS Research at Case Western Reserve University.
References:	Schatz O, et al. <i>FEBS Lett</i> 257 :311-314, 1989. Le Grice SFJ, Gruninger-Leitch F. <i>Eur J Biochem</i> 178 :307-314, 1990. Schatz O, et al. In: <i>Oncogenesis and AIDS</i> . TS Papas (Ed.), Portfolio, TX, pp. 293- 303, 1990. Ben-Artzi H, et al. <i>Nucleic Acids Res</i> 20 :5115-5118, 1992. Metzger W, et al. <i>Proc Natl Acad Sci USA</i> 90 :5909-5913, 1993. Gotthe M, et al. <i>EMBO J</i> 14 :833-841, 1995. Wohrl BM, et al. <i>Biochemistry</i> 34 :5343-5350, 1995. Le Grice SFJ, Cameron CE, Benkovic SJ. In: <i>Methods in Enzymology: DNA Replication</i> . JL Campbell (Ed.), Academic Press, NY, 1995. Cirino NM, et al. <i>Biochemistry</i> 34 :9936-9943, 1995.

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.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1_{HXB2} Reverse Transcriptase (p66^{E>Q}/p51) from Dr. Stuart Le Grice." Also include the references cited above in any publications.

Limited to two aliquots per lab. Larger amounts can be obtained upon request from the contributor.

Last Updated:

June 27, 2018

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