



Product Information Sheet for HRP-20203

Integrase (F185K/C280S) Protein from Human Immunodeficiency Virus Type 1 (HIV-1) NL4-3, Recombinant from *Escherichia coli*

Catalog No. HRP-20203

For research use only. Not for use in humans.

Contributor:

Division of AIDS (DAIDS), National Institute of Allergy and Infectious Diseases (NIAID)

Manufacturer:

OriGene Technologies, Inc., Rockville, Maryland, USA

Product Description:

HRP-20203 is a recombinant form of the NL4-3 integrase protein from human immunodeficiency virus type 1 (HIV-1) and contains the amino acid substitutions F185K and C280S. These mutations enhance the protein solubility without affecting its activity *in vitro*.¹ HRP-20203 was expressed in *Escherichia coli* using vector ARP-2958 and purified by immobilized metal affinity chromatography. The N-terminal poly-histidine tag was removed after purification.¹ HRP-20203 has a theoretical molecular weight of approximately 33 kilodaltons.

Material Provided:

Each vial of HRP-20203 contains approximately 50 µg of purified recombinant protein in 20 mM HEPES, pH 7.5, 1 M NaCl, 2 mM DTT, 100 µM ZnCl₂, 10% glycerol. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

HRP-20203 was packaged aseptically in screw-capped plastic vials and is provided frozen on dry ice. The product should be stored at -80°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, NIAID, NIH: Integrase (F185K/C280S) protein from Human Immunodeficiency Virus Type 1 (HIV-1) NL4-3, Recombinant from *Escherichia coli*, HRP-20203, contributed by DAIDS, NIAID."

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.

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 NIH HIV Reagent Program Material Transfer Agreement (MTA). The MTA is available on our Web site at www.hivreagentprogram.org.

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References:

1. Jenkins T. M., et al. "A soluble Active Mutant of HIV-1 Integrase: Involvement of Both the Core and Carboxyl-Terminal Domains in Multimerization." *J Biol Chem*. 271 (1996): 7712-7718. PubMed: 8631811.

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