



Product Information Sheet for HRP-20125

Simian Immunodeficiency Virus, SIVsm804E-CL757

Catalog No. HRP-20125

This reagent is the tangible property of the U.S. Government.

Lot No. 70053597

For research use only. Not for use in humans.

Contributor and Manufacturer:

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Product Description:

VIRUS CLASSIFICATION: *Retroviridae, Lentivirus*

SPECIES: Simian immunodeficiency virus

STRAIN/ISOLATE: SIVsm804E-CL757

ORIGINAL SOURCE: Simian immunodeficiency virus (SIV), SIVsm804E-CL757 (CL757) is an infectious viral clone of the isolate SIVsm804E. SIVsm804E was generated by the sequential, *in vivo* passage of SIVsmE543-3 in rhesus macaques.^{1,2,3} SIVsmE543-3, in turn, originated from a peripheral blood mononuclear cell (PBMC) sample obtained late in disease from an immunodeficient rhesus macaque that developed SIV-induced encephalitis (SIVE).⁴

COMMENTS: HRP-20125 was obtained by transfection of 293T cells with a full-length molecular clone, SIVsm804E-CL757.^{1,2} CL757 replicates robustly *in vitro* in activated Rhesus macaque PBMCs and monocyte-derived macrophages and induces SIV encephalitis *in vivo* in high frequency but without rapid disease progression, thus is more reflective of neuroAIDS in HIV-infection.² The complete genome of the SIVsm804E-CL757 isolate has been sequenced (GenBank: [MF370842.1](https://www.ncbi.nlm.nih.gov/nuccore/MF370842.1)).¹

Material Provided:

Each vial contains approximately 0.5 mL of supernatant from CL757 transfected 293T cells. The virus supernatants were prepared by centrifugation followed by filtration through a 0.45 µm filter. The TCID₅₀ titer in TZM-bl cells was 17,000 infectious units (IU) per mL. HRP-20125 has not been tested for mycoplasma contamination.¹

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

HRP-20125 was packaged aseptically in plastic cryovials. The product is provided frozen and should be stored at -100°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

HOST: Rhesus macaque PBMC and monocyte-derived macrophages (MDM)

GROWTH MEDIUM: RPMI 1640 medium supplemented with 10% heat-inactivated fetal bovine serum

INFECTION: Cells should be 70% to 90% confluent

INCUBATION: 10 to 14 days at 37°C and 5% CO₂

Citation:

Acknowledgment for publications should read “The following reagent was obtained through the NIH HIV Reagent Program, NIAID, NIH: Simian Immunodeficiency Virus, SIVsm804E-CL757, HRP-20125, contributed by Dr. Vanessa M. Hirsch.”

Biosafety Level: 2

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/bmbli5/index.htm.

Disclaimers:

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References:

1. Hirsch V., Personal Communication.
2. Matsuda, K., et al. "An SIV Molecular Clone that Targets the CNS and Induces Neuroaids in Rhesus Macaques." PLoS Pathog. 13 (2017): e1006538. PubMed: 28787449.
3. Matsuda, K., et al. "Characterization of Simian Immunodeficiency Virus (SIV) that Induces SIV Encephalitis in Rhesus Macaques with High Frequency: Role of TRIM5 and Major Histocompatibility Complex Genotypes and Early Entry to The Brain." J. Virol. 88 (2014): 13201-13211. PubMed: 25187546.
4. Hirsch, V., et al. "A Molecularly Cloned, Pathogenic, Neutralization-Resistant Simian Immunodeficiency Virus, SIVsmE543-3." J. Virol. 71 (1997): 1608-1620. PubMed: 8995688.

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