



## 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.<sup>1,2,3</sup> 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).<sup>4</sup>

**COMMENTS:** HRP-20125 was obtained by transfection of 293T cells with a full-length molecular clone, SIVsm804E-CL757.<sup>1,2</sup> 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.<sup>2</sup> The complete genome of the SIVsm804E-CL757 isolate has been sequenced (GenBank: [MF370842.1](#)).<sup>1</sup>

#### 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 TCID<sub>50</sub> titer in TZM-bl cells was 17,000 infectious units (IU) per mL. HRP-20125 has not been tested for mycoplasma contamination.<sup>1</sup>

**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% CO<sub>2</sub>

#### 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/bmbl5/index.htm](http://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 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](http://www.hivreagentprogram.org).

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#### NIH HIV Reagent Program

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### References:

1. Hirsch V. M., 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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