



Product Information Sheet for HRP-20121

Simian Immunodeficiency Virus, SIVsmE660-807-16w Env

Catalog No. HRP-20121

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

Lot No. 70052308

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: SIVsmE660-807-16w Env

ORIGINAL SOURCE: Simian immunodeficiency virus (SIV), SIVsmE660-807-16w Env is a derivative of SIVsmE660-FL14 (HRP-20120), encoding envelope glycoprotein ([JQ864161](#)) cloned from neutralizing antibody escape variant obtained at 16 weeks post-infection from a SIVsmE660-FL14-inoculated rhesus macaque (*Macaca mulatta*).^{1,2,3}

COMMENTS: SIVsmE660-807-16w Env exhibits Tier 2 moderate neutralization antibody resistance.² The complete genome of the SIVsmE660-FL14 clone has been sequenced (GenBank: [JQ864087.1](#)).

Material Provided:

Each vial contains approximately 1.0 mL of supernatant from rhesus macaque peripheral blood leukocytes (PBL) infected with SIVsmE660-807-16w Env. The virus supernatants were prepared by centrifugation followed by filtration through a 0.45 µm filter. The TCID₅₀ titer in TZM-bl cells was 51,200 infectious units (IU) per mL. HRP-20121 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-20121 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 peripheral blood mononuclear cells (PBMC)

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, SIVsmE660-807-16w Env, HRP-20121, 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.

Disclaimers:

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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. Hirsch, V. M., Personal Communication.
2. Wu, F., et al. "SIV Infection Duration Largely Determines Broadening of Neutralizing Antibody Response in Macaques." J. Clin Invest. 130 (2020): 5413-5424. PubMed: 32663192.
3. Wu, F., et al. "Sequential Evolution and Escape from Neutralization of Simian Immunodeficiency Virus SIVsmE660 Clones in Rhesus Macaques." J. Virol. 86 (2012): 8835-8847. PubMed: 22696650.

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