

Product Information Sheet for HRP-20116

Simian Immunodeficiency Virus, SIVsmE543-3

Catalog No. HRP-20116

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Lot No. 70051401

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: SIVsmE543-3

ORIGINAL SOURCE: Simian immunodeficiency virus (SIV), SIVsmE543-3 is an infectious viral clone that originated from peripheral blood mononuclear cells (PBMC) obtained late in disease from an immunodeficient rhesus macaque (E543) that developed SIV-induced encephalitis (SIVE) upon inoculation of SIVsmF236.^{1,2}

COMMENTS: SIVsmE543-3 is two passages from its origin in a naturally infected sooty mangabey.¹ This stock was generated by expansion in pig-tailed macaque (PT71) and titrated for infectivity in rhesus macaques following intravenous passage.¹ It is infectious and pathogenic in rhesus and PT macaques and is restricted by rhesus TRIM5α alleles, TRIM5^{TFP} and TRIM5^{Cyp}.¹ SIVsmE543-3 is highly resistant to neutralizing antibodies. The complete genome of strain SIVsmE543-3 has been sequenced (GenBank: U72748.2).

Material Provided:

Each vial contains approximately 1.0 mL of supernatant from PT macaque PBMC infected with SIVsmE543-3. The virus supernatants were prepared by centrifugation followed by filtration through a 0.45 μ m filter. The TCID₅₀ titer in TZM-bl cells was 3,000 infectious units (IU) per mL. HRP-20116 has not been tested for mycoplasma contamination.¹

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

Packaging/Storage:

HRP-20116 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: PT macaque PBMC

GROWTH MEDIUM: RPMI 1640 medium supplemented with

10% heat-inactivated fetal bovine serum

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, NIAID, NIH: Simian Immunodeficiency Virus, SIVsmE543-3, HRP-20116, 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.

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References:

- 1. Hirsch, V. M., Personal Communication.
- Hirsch, V., et al. "A Molecularly Cloned, Pathogenic, Neutralization-Resistant Simian Immunodeficiency Virus, SIVsmE543-3." <u>J. Virol.</u> 71 (1997): 1608-1620. PubMed: 8995688.

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