



Product Information Sheet for HRP-20126

Simian Immunodeficiency Virus, SIVsm804E-CL757 Gag-S37 S98 P146

Catalog No. HRP-20126

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

Lot No. 70053281

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 Gag-S37 S98 P146

ORIGINAL SOURCE: Simian immunodeficiency virus (SIV), SIVsm804E-CL757 Gag-S37 S98 P146 is a variant of SIVsm804E-CL757 (HRP-20125). Two amino acid substitutions, P37S and R93S, were introduced in the CL757-WT capsid region, and proline was restored in a pre-existing P146T substitution in a conserved disordered linker region in the capsid to confer resistance to TRIM5 α .^{1,2,3}

COMMENTS: SIVsm804E-CL757 Gag-S37 S98 P146 exhibits improved replication in rhesus macaques (*Macaca mulatta*) compared to the parental clone and could be used in rhesus macaques to study neuroAIDS and reservoirs in the CNS without the need for TRIM genotyping and selection.^{1,2}

Material Provided:

Each vial contains between 0.5 and 1.0 mL of supernatant from SIVsm804E-CL757 Gag-S37 S98 P146-transfected 293T cells. 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 17,000 infectious units (IU) per milliliter. HRP-20126 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-20126 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, SIVsm804E-CL757 Gag-S37 S98 P146, HRP-20126, 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/bmb15/index.htm.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

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References:

1. Hirsch, V. M., Personal Communication.
2. Lee, C. A. and V. M. Hirsch. "Mutation in the Disordered Linker Region of Capsid Disrupts Viral Kinetics of a Neuropathogenic SIV in Rhesus Macaques." Microbiol. Spectr. 10 (2022): e0047822. PubMed: 35297654.
3. 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.

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