



Product Information Sheet for HRP-20124

Simian Immunodeficiency Virus, SIVsmE660-807-16w Env-Gag S37 S98

Catalog No. HRP-20124

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

Lot No. 70052625

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-Gag S37 S98

ORIGINAL SOURCE: Simian immunodeficiency virus (SIV), SIVsmE660-807-16w Env-Gag S37 S98 is a TRIM5 α -resistant version of SIVsmE660-807-16w Env (HRP-20121).^{1,2,3} Amino acid substitutions P37S and R98S were introduced into the capsid of SIVsmE660-807-16w Env to create a TRIM5 α -resistant mutant.^{2,3}

COMMENTS: SIVsmE660-807-16w Env-Gag S37 S98 is moderately resistant to neutralizing antibodies, not sensitive to restriction by TRIM5 α genotypes, and causes enhanced infectivity and replication in rhesus macaques (*Macaca mulatta*).²

Material Provided:

Each vial contains approximately 0.5 mL of supernatant from rhesus macaque peripheral blood leukocytes (PBL) infected with SIVsmE660-807-16w Env-Gag S37 S98. 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 6,400 infectious units (IU) per mL. HRP-20124 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-20124 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-Gag S37 S98, HRP-20124, 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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license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. Hirsch, V., Personal Communication.
2. Wu, F., et al. "TRIM5 α Resistance Escape Mutations in the Capsid Are Transferable between Simian Immunodeficiency Virus Strains." *J. Virol.* 90 (2016): 11087-11095. PubMed: 27681142.
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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