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

Catalog No. HRP-20124
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Lot No. 70052625

For research use only. Not for use in humans.

Contributor and Manufacturer:
Vanessa M. Hirsch, D.V.M., D.Sc., Laboratory of Molecular Biology, National Institute of Allergy and Infectious Disease (NIAID), National Institutes of Health (NIH), Bethesda, Maryland, USA

Product Description:

**VIRUS CLASSIFICATION:** Retroviridae, Lentivirus

**SPECIES:** Simian immunodeficiency virus

**STRAIN/ISOLATE:** SIVsmE660-807-16w Env-Gag S37 S98

**ORIGINAL SOURCE:** SIVsmE660-807-16w Env-Gag S37 S98 is a TRIM5α-resistant version of SIVsmE660-807-16w Env (HRP-20121). Amino acid substitutions P37S and R98S were introduced into the capsid of SIVsmE660-807-16w Env to create a TRIM5α-resistant mutant.2,3

**COMMENTS:** SIVsmE660-807-16w Env-Gag S37 S98 is moderately resistant to neutralizing antibodies, not sensitive to restriction by TRIM5α 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 µm 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

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References:

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