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

Catalog No. HRP-20126
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Lot No. 70053281
For research use only. Not for use in humans.

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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 TRIM5α.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 µm filter. The TCI50 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 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


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