



Product Information Sheet for HRP-20117

Simian Immunodeficiency Virus, SIVsmE543-Gag S37 S98

Catalog No. HRP-20117

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

Lot No. 70051474

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-Gag S37 S98

ORIGINAL SOURCE: Simian immunodeficiency virus (SIV), SIVsmE543-Gag S37 S98 is an infectious viral clone derived from SIVsmE543-3 (HRP-20116) in which two amino acid substitutions, P37S and R98S, were introduced in the capsid region to confer resistance to TRIM5^{TFP} inhibition.^{1,2,3}

COMMENTS: SIVsmE543-Gag S37 S98 has more uniform replication among a cohort of rhesus macaques that differs in TRIM5 haplotypes.^{1,2} The complete genome of strain SIVsmE543-3 has been sequenced (GenBank: [U72748.2](#)).

Material Provided:

Each vial contains approximately 1.0 mL of viral culture supernatant. The virus supernatants were prepared by centrifugation followed by filtration through a 0.45 µm filter. HRP-20117 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-20117 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, SIVsmE543-Gag S37 S98, HRP-20117, 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:

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

Use of this product is subject to the terms and conditions of the NIH HIV Reagent Program Material Transfer Agreement (MTA). The MTA is available on our Web site at www.hivreagentprogram.org.

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NIH HIV Reagent Program

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References:

1. Hirsch, V. M., Personal Communication.
2. Wu, F., et al. "TRIM5 Alpha Drives SIVsmm Evolution in Rhesus Macaques." *PLoS Pathog.* 9 (2013): e1003577. PubMed: 23990789.
3. Hirsch, V., et al. "A Molecularly Cloned, Pathogenic, Neutralization-Resistant Simian Immunodeficiency Virus, SIVsmE543-3." *J. Virol.* 71 (1997): 1608-1620. PubMed: 8995688.

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