

Product Information Sheet for HRP-20278

SUPPORTING INFECTIOUS DISEASE RESEARCH

Simian-Human Immunodeficiency Virus Infectious Molecular Clone, pSHIV AD8EO

Catalog No. HRP-20278

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

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

HRP-20278 is a full-length chimeric infectious molecular clone of the simian-human immunodeficiency virus, SHIV AD8EO (GenBank: MN816822). The plasmid is approximately 13,040 base pairs and contains an ampicillin resistance marker for transformant selection. The plasmid sequence is provided on the BEI Resources webpage.

SHIV AD8EO, a molecularly cloned derivative of SHIVAD8, is CCR5-tropic. It replicates to high levels in rhesus macaque peripheral blood mononuclear cells (PBMC) and exhibits a Tier 2 neutralization sensitivity phenotype. It generates sustained levels of plasma viremia and depletes CD4⁺ T cells, leading to symptomatic immunodeficiency in inoculated monkeys. 1,2,3

Material Provided:

Each vial contains plasmid DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA pH 8.0). The DNA concentration and volume provided are shown on the Certificate of Analysis. The vial should be centrifuged prior to opening. Note: The contents of the vial should be used to replicate the plasmid in *E. coli* prior to expression studies.

Packaging/Storage:

HRP-20278 was packaged aseptically in cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Simian-Human Immunodeficiency Virus Infectious Molecular Clone, pSHIV AD8EO, HRP-20278."

Biosafety Level: 1

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. <u>Biosafety in Microbiological and Biomedical Laboratories (BMBL)</u>. 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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. Martin, M. A., Personal Communication.
- Shingai, M., et al. "Most Rhesus Macaques Infected with the CCR5-tropic SHIV(AD8) Generate Cross-Reactive Antibodies that Neutralize Multiple HIV-1 Strains." <u>Proc. Natl. Acad. Sci. U. S. A.</u> 109 (2012): 19769-19774. PubMed: 23129652.
- Shingai, M., et al. "Passive Transfer of Modest Titers of Potent and Broadly Neutralizing Anti-HIV Monoclonal Antibodies Block SHIV Infection in Macaques." J. Exp. Med. 211 (2014): 2061-2074. PubMed: 25155019.

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