



DATA SHEET

For research use only. Not for use in humans.

Reagent:	Reverse Transcriptase-Simian-Human Immunodeficiency Virus (RT-SHIV)
Catalog Number:	ARP-11342
Lot Number:	170169
Release Category:	E
Provided:	Each vial of ARP-11342 contains approximately 1 mL of cell-free virus. At day 7 harvest, the endpoint TCID ₅₀ titer was 1.14×10^3 per mL and p27 concentration was 152.6 ng per mL.
Host Strain:	CEMx174 cells
Propagation:	ARP-11342 was propagated in CEMx174 cells.
Description:	RT-SHIV is a chimera of simian immunodeficiency virus (SIV) in which the reverse transcriptase from SIVmac239 was replaced with reverse transcriptase from a human immunodeficiency virus type 1 (HIV-1) clone (HXBc2). It contains a T to C substitution at position 8 of the SIV tRNA primer binding site that improves replication of RT-SHIV <i>in vivo</i> .
Sterility:	Tests for bacteria, fungi and mycoplasma were negative.
Recommended Storage:	-100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer
Contributor:	Dr. Thomas North and Dr. Joseph Sodroski
References:	North, T. W., et al. "Suppression of Virus Load by Highly Active Antiretroviral Therapy in Rhesus Macaques Infected with a Recombinant Simian Immunodeficiency Virus Containing Reverse Transcriptase from Human Immunodeficiency Virus Type 1." <i>J Virol.</i> 79 (2005): 7349-7354. PubMed: 15919889. Soderberg, K., et al. "A Nucleotide Substitution in the tRNA(Lys) Primer Binding Site Dramatically Increases Replication of Recombinant Simian Immunodeficiency Virus Containing a Human Immunodeficiency Virus Type 1 Reverse Transcriptase." <i>J Virol.</i> 76 (2002): 5803-5806. PubMed: 11992009. Uberla, K., et al. "Animal Model for the Therapy of Acquired Immunodeficiency Syndrome with Reverse Transcriptase Inhibitors." <i>Proc. Natl. Acad. Sci. U S A</i> 92 (1995): 8210-8214. PubMed: 7545297.
Citation:	Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: Reverse Transcriptase-Simian-Human Immunodeficiency Virus (RT-SHIV), ARP-11342, contributed by Dr. Thomas North and Dr. Joseph Sodroski." Also include the references cited in any publications.
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. <u>Biosafety in Microbiological and Biomedical Laboratories</u> . 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.

While the NIH HIV Reagent Program uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to the NIH HIV Reagent Program are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before the first commercial sale.

ATCC® is a trademark of the American Type Culture Collection.

