



NIH AIDS Reagent Program

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DATA SHEET

Reagent: ☒ SHIV-1157ipEL-p, harvest day 11

Catalog Number: 12193

Lot Number: 1 12/04/09-0.5mL OR 1 12/04/09_1.0mL

Release Category: C

Provided: 0.5ml
1.0ml
Please indicate desired volume when ordering.

Propagation: RM PBMC

Description: SHIV-1157ipEL-p is a tier 1 R5 clade C SHIV. It is a chimera of the "early" neutralization sensitive SHIV-1157ip envelope and the "late" engineered backbone of SHIV-1157ipd3N4, which was engineered to have extra NF-KB sites in the LTRs. The envelope gene was derived from a relatively recently transmitted pediatric R5 clade C isolate from Zambia. SHIV-1157ipEL-p is a biological isolate that is exclusively R5 tropic and mucosally transmissible. It causes T-cell depletion during acute infection and gradual progression to AIDS. SHIV-1157ipEL-p has been used as a challenge virus in passive and active immunization studies.

Special Characteristics: TCID₅₀ = 1.6X10⁵/ml
p27 conc. (ng/ml) = 188

Recommended Storage: Vapor phase of LN₂

Contributor: Dr. Ruth Ruprecht, Dana Farber Cancer Institute and NIAID, DAIDS.

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

References:

Siddappa NB, Watkins JD, Wassermann KJ, Song R, Wang W, Kramer VG, Lakhashe S, Santosuosso M, Poznansky MC, Novembre FJ, Villinger F, Else JG, Montefiori DC, Rasmussen RA, Ruprecht RM. R5 clade C SHIV strains with tier 1 or 2 neutralization sensitivity: tools to dissect env evolution and to develop AIDS vaccines in primate models. *PLoS One*. 2010 Jul 21;5(7):e11689. PubMed PMID: 20657739

Song RJ, Chenine AL, Rasmussen RA, Ruprecht CR, Mirshahidi S, Grisson RD, Xu W, Whitney JB, Goins LM, Ong H, Li PL, Shai-Kobiler E, Wang T, McCann CM, Zhang H, Wood C, Kankasa C, Secor WE, McClure HM, Strobert E, Else JG, Ruprecht RM. Molecularly cloned SHIV-1157ipd3N4: a highly replication-competent, mucosally transmissible R5 simian-human immunodeficiency virus encoding HIV clade C Env. *J Virol*. 2006 Sep;80(17):8729-38. PMID: 16912320

Watkins JD, Siddappa NB, Lakhashe SK, Humbert M, Sholukh A, Hemashettar G, Wong YL, Yoon JK, Wang W, Novembre FJ, Villinger F, Ibegbu C, Patel K, Corti D, Agatic G, Vanzetta F, Bianchi S, Heeney JL, Sallusto F, Lanzavecchia A, Ruprecht RM. An anti-HIV-1 V3 loop antibody fully protects cross-clade and elicits T-cell immunity in macaques mucosally challenged with an R5 clade C SHIV. *PLoS One*. 2011 Mar 31;6(3):e18207. PubMed PMID: 21483815

Lakhashe SK, Velu V, Sciaranghella G, Siddappa NB, Dipasquale JM, Hemashettar G, Yoon JK, Rasmussen RA, Yang F, Lee SJ, Montefiori DC, Novembre FJ, Villinger F, Amara RR, Kahn M, Hu SL, Li S, Li Z, Frankel FR, Robert-Guroff M, Johnson WE, Lieberman J, Ruprecht RM. Prime-boost vaccination with heterologous live vectors encoding SIV gag and multimeric HIV-1 gp160 protein: efficacy against repeated mucosal R5 clade C SHIV challenges. *Vaccine*. 2011 Aug 5;29(34):5611-22. Epub 2011 Jul 14. PubMed PMID: 21693155

Lakhashe SK, Wang W, Siddappa NB, Hemashettar G, Polacino P, Hu SL, Villinger F, Else JG, Novembre FJ, Yoon JK, Lee SJ, Montefiori DC, Ruprecht RM, Rasmussen RA. Vaccination against heterologous R5 clade C SHIV: prevention of infection and correlates of protection. *PLoS One*. 2011;6(7):e22010. Epub 2011 Jul 20. PubMed PMID: 21799765

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: SHIV-1157ipEL-p from Dr. Ruth Ruprecht and DAIDS, NIAID." Also include the appropriate references cited above in any publications.

Last Updated:

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