



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

Reagent: Env-5 (242-257)

Catalog Number: 1461

Lot Number: 150219

Provided: 0.5 mg, lyophilized.

Description: Synthetic HTLV-I sequence-derived ENV peptide residues 242-247.

Sequence: SPNVSVPPSSSTPLLY

Purity: 96.47%

Special Characteristics: ENV-5 peptide recognized by all serum samples from HTLV-I-infected individuals tested. The peptide is not recognized by serum from HTLV-II-infected patients.

The Env-5 peptide has been used successfully both alone and in a "cocktail" with the HTLV-II peptide Env-1 to discriminate between HTLV-I and HTLV-II antibodies in an ELISA.

Dilutions should be made in 10 mM carbonate buffer, pH 9.6 (Sigma, Catalog #C3041).

[Protocol: ELISA for Detection of HTLV-I and HTLV-II Positive Sera](#)

Molecular Formula: C₇₂H₁₁₅N₁₇O₂₆

Molecular Weight: 1634.82

Recommended Storage: Keep at -20°C lyophilized and -80°C after reconstitution.

Contributor: Dr. Renu B. Lal.

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:**
- Lal RB. Structural similarity of envelope glycoprotein of HTLV-I and C-terminal region of V-erbB and EGF receptor. *AIDS Res Hum Retroviruses* **7**:423-424, 1991.
- Lal RB, Rudolph DL, Lairmore MD, Khabbaz RF, Garfield M, Coligan JE, and Folks TM. Serologic discrimination of human T cell lymphotropic virus infection by using a synthetic peptide-based enzyme immunoassay. *J Infect Dis* **163**:41-46, 1991.
- Lal RB, Rudolph DL, Palker TJ, Coligan JE, and Folks TM. A synthetic peptide elicits antibodies reactive with the external glycoprotein of human T cell lymphotropic virus type I. *J Gen Virol* **72**:2321-2324, 1991.
- Rudolph DL, Lal RB. Discrimination of human T-lymphotropic virus type-I and type-II infections by synthetic peptides representing structural epitopes from the envelope glycoproteins. *Clin Chem* **39**:288-292, 1993.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Env-5242-257 from Dr. Renu Lal." Also include the references cited above in any publications.

A US Government Patent (#5738805) has been issued on this research material. Scientists at for-profit institutions or who intend commercial use of this reagent must contact Ms. Lisa Blake-DiSpigna at email address LBlake-DiSpigna@cdc.gov and specify in the email the name of the reagent, and a description of the intended use of the reagent.

Last Updated: August 12, 2015

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.