Recombinant HTLV-1 Envelope

Catalog No.	CSI15799A	**Quantity:**	100 µg
	CSI15799B		0.5 mg
	CSI15799C		1.0 mg

Description: Human T-lymphotropic virus (HTLV) is a human, single-stranded RNA retrovirus that causes T-cell leukemia and T-cell lymphoma. The virus activates a subset of T-helper cellscalled Th1cells. The result is a proliferation of Th1 cells and overproduction of Th1 related cytokines (mainly IFN-gamma and TNF-alpha). Feedback mechanisms of these cytokines cause a suppression of the Th2 lymphocytes and a reduction of Th2 cytokine production (mainly IL-4, IL-5, IL-10 and IL-13). The end result is a reduction in the ability of the infected host to mount an adequate immune response to invading organisms that require a predominantly Th2 dependant response (these include parasitic infections and production of mucosal and humoral antibodies).
The *E.Coli* derived recombinant protein contains the C- terminus of gp46 and most of p21E of HTLV-1. This non-fusion, *E. coli*-derived protein, starts from HIV-1 env. Amino acid 165, and is ending in amino acid 440, Mw 27 kDa.

Molecular Weight: 27 kDa

Formulation: 10 mM Na-PO4, pH 6.0 + 0.1% SDS and 1 mM DTT.

Purity: HTLV-1 Envelope protein is >95% pure as determined by 10% PAGE (coomassie staining) and RP-HPLC.

Purification Method: HTLV-1 Envelope was purified by proprietary chromatographic technique.

Specific Activity: Immunoreactive with all sera of HTLV-I and HTLV-II infected individuals with antibody response to HTLV envelope.

Reconstitution: It is recommended to reconstitute the lyophilized HTLV-1 Envelope in sterile 18MΩ-cm H_2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Applications: HTLV-1 Envelope can be used as an antigen in ELISA and Western Blots. Excellent reagent for correct detection of HTLV infections, with minimal specificity problems.

Storage & Stability: Lyophilized HTLV-1 Envelope although stable at room temperature for 3 weeks, should be stored desiccated below - 18°C. Upon reconstitution HTLV-1 Envelope should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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