



Product Data Sheet

□ Cat # RP-575

Recombinant HTLV-1 gp46

Size: □ 100 ug □ 500 ug

**Introduction:**

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 cells called Th1 cells. 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).

**Description:**

The E.Coli derived recombinant mosaic protein contains the gp46 immunodominant regions, 162-214 amino acids and 242-257 amino acids

**Purification Method:**

HTLV-1 gp46 was purified by proprietary chromatographic technique

**Purity:**

HTLV-1 gp46 protein is >95% pure as determined by 10% PAGE (coomassie staining) and RP-HPLC.

**Formulation:**

10mM Tris-HCl pH 4.5, 0.1M Sodium Phosphate & 8M urea.

**Storage:**

HTLV-1 gp46 protein is shipped at ambient temperature. Upon arrival, Store at -20°C.

**Stability:**

Five years frozen. One month in solution at room temperature.

**Applications:**

HTLV-1 gp46 can be used as an antigen in ELISA and Western Blots. Excellent reagent for correct detection of HTLV infections, with minimal specificity problems.

**Usage:**

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage..

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