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# HTLV1 gp46 Mosaic - Purified

**Catalog No.:** AR10667PU-S

**Quantity:** 0.1 mg

**Background:** 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).

**Source:** E. coli

**Format:** **Purity:** >95.0% pure as determined by 10.0% SDS-PAGE (coomassie staining) and RP-HPLC.
**Purification Method:** HTLV-1 gp46 was purified by proprietary chromatographic technique.
**Buffer System:** 10mM $NaPO_4$ pH 6.0, 0.1% SDS, 1mM DTT, 1mM EDTA

**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.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Description:** The *E.coli* derived recombinant Mosaic protein contains the gp46 immunodominant regions, 162-214 amino acids and 242-257 amino acids.

**Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.