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## Product Data Sheet

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Product Name: HTLV-1 gp46 mosaic

Cat. No.: GP25435

Batch No.: 1

### Product Data

Purity >98%

Source

Physical  
Appearance solid

Shipping  
Condition Shipped with Ice Packs.

Formulation 10mM NaPO<sub>4</sub> pH 6.0, 0.1% SDS, 1mM DTT, 1mM EDTA.

### 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).

### Stability

HTLV-1 gp46 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

### Background

The E.Coli derived recombinant mosaic protein contains the gp46 immunodominant regions, 162-214 amino acids and 242-257 amino acids, Mw on SDA-PAGE is 39kDa.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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