

Recombinant HIV-1 gp41 Long (aa 444-833)

Catalog No.	CSI15805A	Quantity:	100 µg
	CSI15805B		0.5 mg
	CSI15805C		1.0 mg

Description: Human immunodeficiency virus (HIV) is a retrovirus that can lead to a condition in which the immune system begins to fail, leading to opportunistic infections. HIV primarily infects vital cells in the human immune system such as helper T cells (specifically CD4+ T cells), macrophages and dendritic cells. Once the virus has infected the cell, two pathways are possible: either the virus becomes latent and the infected cell continues to function, or the virus becomes active and replicates, and a large number of virus particles are liberated that can then infect other cells. HIV infection leads to low levels of CD4+ T cells through three main mechanisms: firstly, direct viral killing of infected cells; secondly, increased rates of apoptosis in infected cells; and thirdly, killing of infected CD4+ T cells by CD8 cytotoxic lymphocytes that recognize infected cells. When CD4+ T cell numbers decline below a critical level, cell-mediated immunities lost, and the body becomes progressively more susceptible to opportunistic infections.

The *E. coli* derived protein contains the full-length sequence of N-terminal epitopes of HIV-I gp41 395 amino acids (444-833) immunodominant regions gp41L. The protein is fused to b-galactosidase (114 kDa) at N-Terminus.

Source: *E. coli*

Formulation: Sterile filtered, 8 M Urea, 20 mM Tris-HCl, pH 8.0, 10 mM β-mercaptoethanol

Purity: > 95.0% as determined by HPLC & SDS-PAGE.

Biological Activity: Immunoreactive with all sera of HIV-1 infected individuals.

Amino Acid Sequence: IEFPGIFRPGGGDMRDNRSELYKYKVVKIEPLGVAPTKAKRRVVQ
REKRAVGIGALFLGFLGAAGSTMGAASMTLTVQARQLLSGIVQQQNNLLRAIEAQQHLL
QLTVWGIKQLQARILAVERYLKDQQLLGIWGCSCGLICTTAVPWNASWSNKSLEQIWN
MTWMEWDREINNYTSLIHSLIEESQNQQEKNEQELLELDKWASLWNWFNITNWLWYIK
LFIMIVGGLVGLRIVFAVLSVNVNRVRQGYSPLSFQTHLPPIRGPDPEGIEEGGERDRDR
SIRLVNGSLALIWDRLSLCLFSYHRLRDLILLIVTRIVELLGRRGWELKYWWNLLQYWS
QELKNSAVSLLNATAIAVAEGTDRVIEVVQGAYRAIRHIPRRIRQGLERILL

Storage & Stability: HIV-1 gp41 Long although stable at 2-8°C for 1 week, should be stored in working aliquots at -20°C to -80°C.

Avoid repeated freeze/thaw cycles.

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