Recombinant HIV-I gag p17, p24 GST

Catalog No.	CSI15812A	**Quantity:**	100 µg
	CSI15812B		0.5 mg
	CSI15812C		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. 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 immunity is lost, and the body becomes progressively more susceptible to opportunistic infections. HIV was classified as a member of the genus Lentivirus, part of the family of Retroviridae. Lentiviruses have many common morphologies and biological properties. Many species are infected by lentiviruses, which are characteristically responsible for long-duration illnesses with a long incubation period. Lentiviruses are transmitted as single-stranded, positive-sense, enveloped RNA viruses. Upon entry of the target cell, the viral RNA genome is converted to double-stranded DNA by a virally encoded reverse transcriptase that is present in the virus particle. This viral DNA is then integrated into the cellular DNA by a virally encoded integraseso that the genome can be transcribed. 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-1 p17, p24 is a non-glycosylated polypeptide chain, containing sequence of HIV-1 immunodominant regions p17-p24. The protein is fused to a GST tag at N-terminus

Source: *E. coli*

Formulation: 1.5 M urea +25 mM Tris-HCl pH 8.0 + 0.2% Triton-X and 50% Glycerol.

Purity: Greater than 95.0% as determined by SDS-PAGE

Physical Appearance: Sterile filtered colorless clear solution.

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

Applications: HIV-1 p17, p24 antigen is suitable for ELISA and Western blots, excellent antigen for early detection of HIV seroconvertors with minimal specificity problems.

Storage & Stability: HIV-1 gag p17, p24 although stable at 4°C for 1 week,
should be stored below -18°C.
Please prevent freeze thaw cycles

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