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## 32-5577: Recombinant HIV-1 gp120 LAV(Discontinued)

## **Description**

Source: Baculovirus Insect Cells. HIV-1 gp120 LAV isolate Recombinant- is the external envelope protein, full-length 100-120 kDa, derived from the env. gene of HIV-1 and glycosylated with N-linked sugars and produced using baculovirus vectors in insect cells. Purified under conditions that maintain the tertiary structure of the biologically active molecule. HIV-1 gp120 LAV sequence is identical to the predicted amino acid sequence of gp120 from pNL4-3 (Adachi et al. [1986], J. Virol. 59, 284-291; GenBank accession number M19921). Human immunodeficiency virus (HIV) is a retrovirusthat can lead to a condition in which the immune systembegins to fail, leading to opportunistic infections. HIV primarily infects vital cells in the humanimmune systemsuch as helper T cells(specifically CD4+ T cells), macrophagesand 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 apoptosisin infected cells; and thirdly, killing of infected CD4+ T cells by CD8 cytotoxic lymphocytesthat recognize infected cells. When CD4+ T cell numbers decline below a critical level, cell-mediated immunityis 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 singlestranded, positive-sense, enveloped RNA viruses. Upon entry of the target cell, the viral RNA genomeis converted to doublestranded DNAby a virally encoded reverse transcriptasethat 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 latentand 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.

## **Product Info**

**Amount:** 10 μg

**Purification:** Greater than 90.0% as determined by HPLC analysis and SDS-PAGE.

Content: The protein solution contains 10mM Tris-Cl pH-7.6, 150mM NaCl and 0.01% Triton N-101.

Storage condition: Storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid

multiple freeze-thaw cycles.

Amino Acid: IPGEKLWVTV YYGVPVWKEA TTTLFCASDA KAYDTEVHNV ATHACVPTDP NPQEVVLVNV

TENFNMWKND MVEQMHEDII SLWDQSLKPC VKLTPLCVSL KCTDLKNDTN TNSSSGRMIM EKGEIKNCSF NISTSIRDKV QKEYAFFYKL DIVPIDNTSY RLISCNTSVI TQACPKVSFE PIPIHYCAPA GFAILKCNNK TFNGTGPCTN VSTVQCTHGI RPVVSTQLLL NGSLAEEDVV IRSANFTDNA KTIIVQLNTS VEINCTRPNN NTRKSIRIQR GPGRAFVTIG KIGNMRQAHC NISRAKWNAT LKQIASKLRE QFGNNKTIIF KQSSGGDPEI VTHSFNCGGE FFYCNSTQLF NSTWFNSTWS TEGSNNTEGS DTITLPCRIK QFINMWQEVG KAMYAPPISG QIRCSSNITG LLLTRDGGNN NNGSEIFRPG GGDMRDNWRS ELYKYKVVKI EPLGVAPTKA KRRVVQREKR.

