

32-13609: HIV Type-O gp41 13kDa

Alternative Name :

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 integrase so 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.

Description

Source: *Escherichia Coli*.

Sterile Filtered White lyophilized (freeze-dried) powder.

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Product Info

Amount :	100 µg / 0.5 mg
Purification :	Greater than 95.0% as determined by SDS-PAGE. Lyophilized from 1mg/ml in 20mM Na-carbonate, pH 9.6.
Content :	It is recommended to reconstitute the lyophilized HIV Type-O gp41 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Storage condition :	HIV Type-O gp41 although stable at room temperature for 4 weeks, should be stored below -18°C. Please prevent freeze thaw cycles.
Amino Acid :	MGHHHHHGSVQTHTLLKGIVQQDNLLRAIQAQQHLLRLSVWGIRQLRARLLAETLI QNQQLLNWGAKGRLIAYTSVKWNTTWGGGSIWGNLTWQEWDDQIDNVSSIIYEIQA KAQDQEQNEKKLLELDE.