
Product Data Sheet

Product Name: HIV-1 p24 gag
 Cat. No.: GP25390
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Amino Acid Sequence	slyn tvatlycvhq rieikdtkea ldkikeeqnk skkkaqqaaa dtghssqvsq nypivqniqq qmvhqaispr tlnawvkvve ekafspevip mfsalsegat pqdIntmlnt vggghqaamqm lketineeaa ewdrvhpvha gpiappqmre prgsdiagtt stlqeqigwm tnnppipvge iykrwiilgl nkivrmyspt sildirqgpk epfrdyvdrf yktraeqas qevknwmtet llvqnanpdc ktilkalgpa atleemmtac qgvvgppghka rvlaeamsqv tnsatimmqr gnfrnqrkiv kcfncgkegh iarncraprk kgcwkcgkeg hqmkdcterq anflgk.		
Formulation	8M urea, 20mM Tris-HCl pH-8 & 10mM b-mercaptoethanol.		

Introduction

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,

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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.

Stability

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

Background

The E.coli derived 39 kDa recombinant protein is a non-glycosylated polypeptide chain, containing the HIV-1 p24 gag immunodominant regions, 77-436 amino acids. The HIV-1 p24 gag is fused to beta-galactosidase (114 kDa).

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