
Product Data Sheet

Product Name: HIV-1 gp41 Subtype-b
 Cat. No.: GP26438
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Formulation	HIV-1 gp41 Subtype-b solution contains 25mM Tris-Base/ 25mM K ₂ CO ₃ and 0.025% NaN ₃ .		

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. HIV-1 gp41 Subtype-b reacts to HIV1 antibody from HIV infected patients, over 90% HIV1 samples collected in house were tested strongly positive by rapid test.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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Recombinant HIV-1 gp41 Subtype-b produced in E. coli having a Mw of 42kDa. Recombinant HIV-1 gp41 Subtype-b is fused to GST tag at its N-terminus and purified by proprietary chromatographic technique.

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