

## General Information

### Protein Construction

A DNA sequence encoding the HIV-1 envelope glycoprotein gp160 (AFM77980.1) extracellular domain (Ala 29-Glu 503), termed as gp120, was fused with a polyhistidine tag at the C-terminus.

### Organism

HIV

### Expression Host

Human Cells

## QC Testing

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

### Predicted N terminal

Ala 29

### Molecular Mass

The recombinant HIV-1 gp120 consists of 486 amino acids after removal of the signal peptide and has a predicted molecular mass of 54.6 kDa.

The apparent molecular mass of the recombinant protein is approximately 80-100 kDa in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage

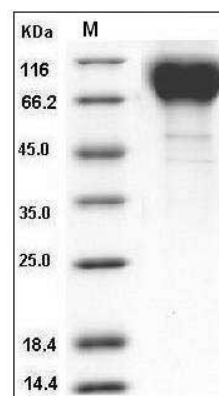
Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ .

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human Immunodeficiency Virus type 1 (HIV-1) gp120 / SU Protein (His Tag) SDS-PAGE