HIV gp140 (Fc Tag) recombinant protein

Catalog Number: 504561

General Information

Protein Construction

A DNA sequence encoding the HIV-1 envelope glycoprotein gp160 extracellular domain (Ala 29-Ser 661), termed as gp140, was fused with the Fc region of human IgG1 at the C-terminus and a signal peptide at the N-terminus.

Organism

HIV

Expression Host

Human Cells

QC Testing

Activity

Using the Octet RED System, the affinity constant (Kd) of gp140-Fc bound to human CD4 is 0.3 μM.

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70℃

Predicted N terminal

Ala 29

Molecular Mass

The recombinant HIV-1 gp140 consists of 874 amino acids after removal of the signal peptide and has a predicted molecular mass of 98 kDa. The apparent molecular mass of the recombinant protein is approximately 210-230 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

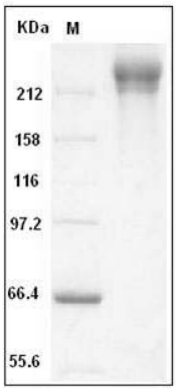
Storage

Store it under sterile conditions at -20℃ to -80℃. 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) gp140 Protein (Fc Tag) SDS-PAGE