

HIV-1 gp120 Protein (His)

General Information

Synonyms:	Envelope glycoprotein gp120;Surface protein gp120;Glycoprotein 120
Protein Construction:	Met1-Glu498
Species:	HIV
Expression Host:	HEK293 Cells
Accession:	Q9DKG6
Molecular Weight:	90-140 KDa (reducing condition)
AA Sequence:	Met1-Glu498

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

HIV-1 gp120 is an envelope glycoprotein derived from the surface subunit of the HIV-1 Env protein. It plays a critical role in viral entry by binding to the CD4 receptor and CCR5/CXCR4 co-receptors on host cells. Recombinant gp120 is commonly used in studies of HIV pathogenesis, neutralizing antibody screening, vaccine development, and receptor-ligand interaction assays.

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