Recombinant HIV Recombinant HIV gp120 Protein (His Tag)

Catalog No. PKSQ050061

Note: Centrifuge before opening to ensure complete recovery of vial contents.

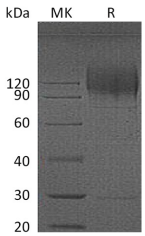
Description

Synonyms	Envelope glycoprotein gp120;Glycoprotein 120;Surface protein gp120
Species	HIV
Expression Host	HEK293 Cells
Sequence	Met1-Glu498
Accession	Q9DKG6
Calculated Molecular Weight	57.0 kDa
Observed molecular weight	90-140 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Envelope glycoprotein gp160 is single-pass type I membrane protein. The mature envelope protein (Env) consists of a homotrimer of non-covalently associated gp120-gp41 heterodimers. It is cleaved into the following 2 chains: glycoprotein

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120 and transmembrane protein gp41. The resulting complex protrudes from the virus surface as a spike. The 17 amino acids long immunosuppressive region is present in many retroviral envelope proteins. Synthetic peptides derived from this relatively conserved sequence inhibit immune function in vitro and in vivo.

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