

HIV-1 (group M, subtype CRF07_BC) gp140 Protein (hFc)

General Information

Synonyms:	CUB domain containing protein 1
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. Predicted N terminal: Ala 29
Species:	HIV
Expression Host:	HEK293 Cells
Molecular Weight:	98 kDa (predicted); 210-230 kDa (reducing conditions)

QC Testing

Biological Activity:	Using the Octet RED System, the affinity constant (Kd) of gp140-Fc bound to human CD4 is 0.3 μ M.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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