

## HIV-1 (group M, subtype CRF07\_BC) gp140 Protein (His)

### General Information

Synonyms:	CUB domain containing protein 1
Protein Construction:	A DNA sequence encoding the HIV-1 envelope glycoprotein gp160 extracellular domain (Val30-Tyr677), termed as gp140, was fused with the bacteriophage T4 fibrin and a polyhistidine tag at the C-terminus. Predicted N terminal: Val 30
Species:	HIV
Expression Host:	HEK293 Cells
Molecular Weight:	78.2 kDa (predicted); 119 kDa (reducing conditions)

### QC Testing

Biological Activity:	Measured by its ability to biotinylated human CD4-his in functional Elisa.
Purity:	> 94 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm 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:**  
Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

**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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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481