

Human immunodeficiency virus 1 gp140 Protein, His Tag (MALS verified)

Catalog # GP0-V52H3



BIOSYSTEMS
Acro
Surprise Inside!

Synonym

Envelope glycoprotein gp140

Source

Human immunodeficiency virus 1 gp140 Protein, His Tag (GP0-V52H3) is expressed from human 293 cells (HEK293).

Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 53.7 kDa & 19.3 kDa. The protein migrates as 110-120 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

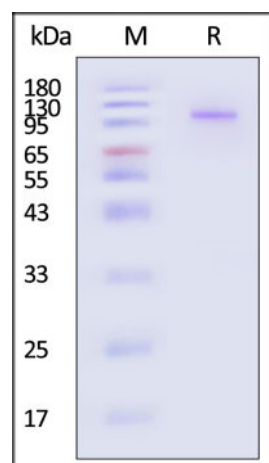
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

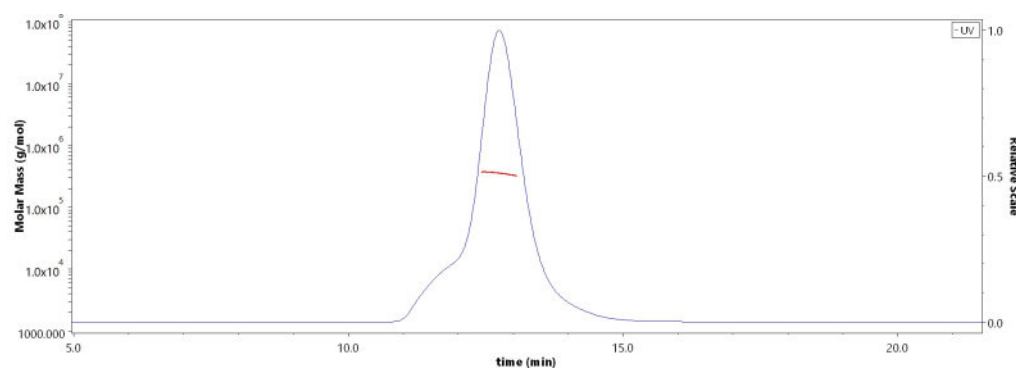
SDS-PAGE



Human immunodeficiency virus 1 gp140 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

SEC-MALS



The purity of Human immunodeficiency virus 1 gp140 Protein, His Tag (Cat. No. GP0-V52H3) is more than 85% and the molecular weight of this protein is around 330-370 kDa verified by SEC-MALS.

[Report](#)

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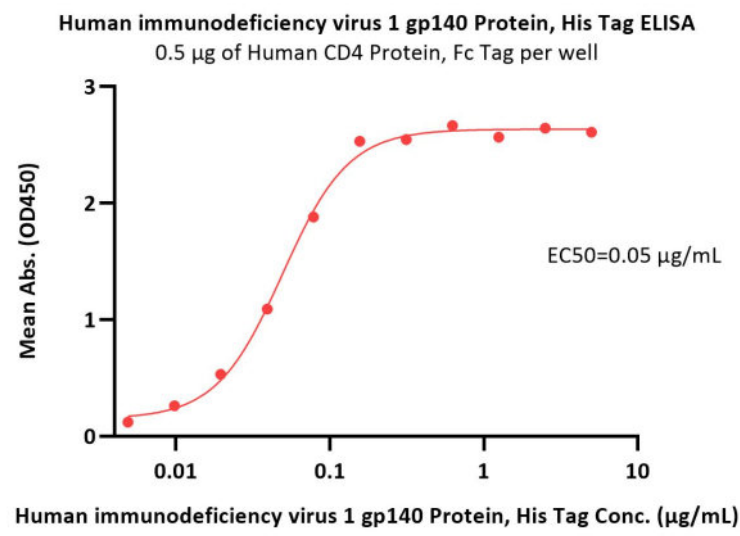


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Immobilized Human CD4 Protein, Fc Tag (Cat. No. CD4-H5259) at 5 µg/mL (100 µL/well) can bind Human immunodeficiency virus 1 gp140 Protein, His Tag (Cat. No. GP0-V52H3) with a linear range of 0.005-0.156 µg/mL (QC tested).

Background

The trimeric envelope glycoproteins (Env) that are displayed on human and simian immunodeficiency viruses (HIV and SIV, respectively) are heterodimers of the transmembrane glycoprotein (gp41) and a surface glycoprotein (gp120). The glycoproteins gp120 and gp41 are synthesized initially as a single gp160 polypeptide that is subsequently cleaved to generate the noncovalently associated gp120/gp41 complex. Soluble versions of trimeric gp140, either cleaved or uncleaved, are being developed as immunogens to elicit a protective humoral immune response against HIV-1 infection.

Clinical and Translational Updates

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