

Nipah Virus (Bangladesh) Glycoprotein, His Tag (MALS verified)

Catalog # GLN-V5243



Synonym

Glycoprotein

Source

Nipah Virus (Bangladesh) Glycoprotein, His Tag (GLN-V5243) is expressed from human 293 cells (HEK293). It contains AA Gln 71 - Thr 602 (Accession # [Q4VCP5](#)).

Predicted N-terminus: His

Molecular Characterization

Poly-his

Glycoprotein(Gln 71 - Thr 602)
Q4VCP5

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

The protein has a calculated MW of 67.4 kDa. The protein migrates as 80-95 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a tetramer.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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.

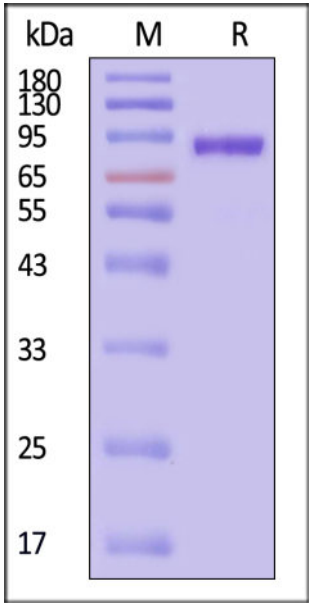
This product is stable after storage at:

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

ACRO Quality Management System

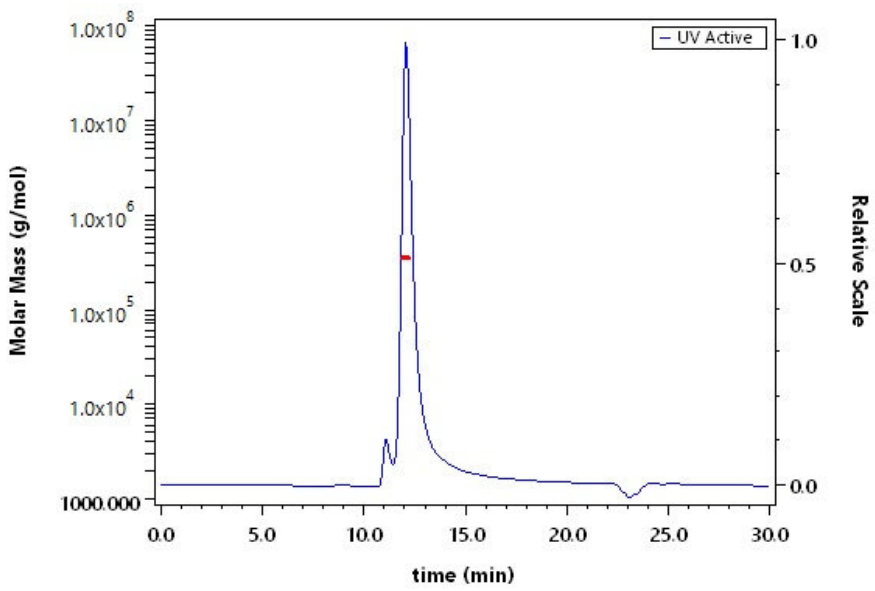
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



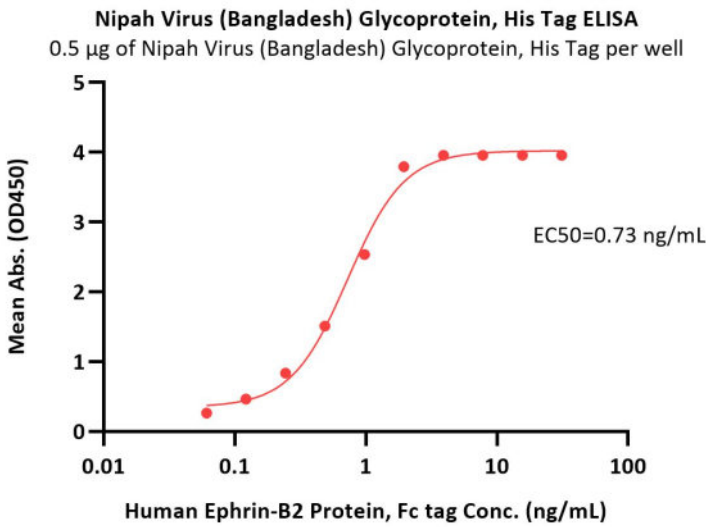
Nipah Virus (Bangladesh) Glycoprotein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

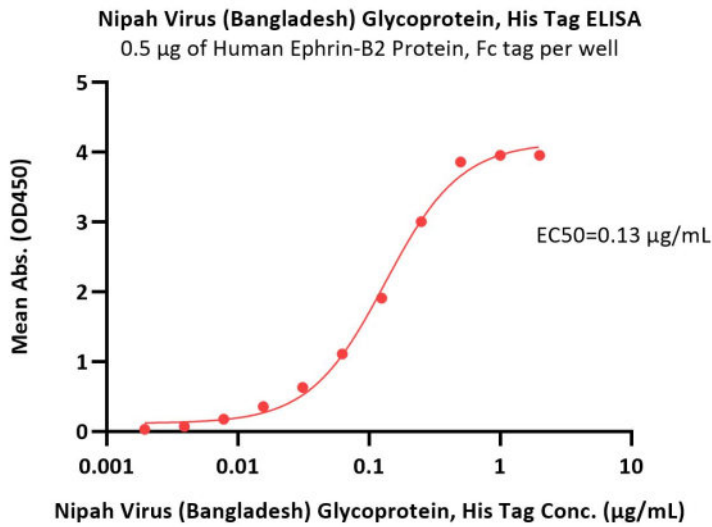


The purity of Nipah Virus (Bangladesh) Glycoprotein, His Tag (Cat. No. GLN-V5243) is more than 90% and the molecular weight of this protein is around 330-380 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Nipah Virus (Bangladesh) Glycoprotein, His Tag (Cat. No. GLN-V5243) at 5 µg/mL (100 µL/well) can bind Human Ephrin-B2 Protein, Fc tag (Cat. No. EPN-H5259) with a linear range of 0.06-2 ng/mL (QC tested).



Immobilized Human Ephrin-B2 Protein, Fc tag (Cat. No. EPN-H5259) at 5 µg/mL (100 µL/well) can bind Nipah Virus (Bangladesh) Glycoprotein, His Tag (Cat. No. GLN-V5243) with a linear range of 0.002-0.5 µg/mL (Routinely tested).

Background

Hendra virus (HeV) and Nipah virus (NiV) are henipaviruses discovered in the mid-to late 1990s that possess a broad host tropism and are known to cause severe and often fatal disease in both humans and animals. HeV and NiV infect host cells through the coordinated efforts of two envelope glycoproteins. The G glycoprotein attaches to cell receptors, triggering the fusion (F) glycoprotein to execute membrane fusion. G is a type II homotetrameric transmembrane protein responsible for binding to ephrinB2 or ephrinB3 (ephrinB2/B3) receptors. F is a homotrimeric type I transmembrane protein that is synthesized as a premature F0 precursor and cleaved by cathepsin L during endocytic recycling to yield the mature, disulfide-linked, F1 and F2 subunits. Upon binding to ephrinB2/B3, NiV G undergoes conformational changes leading to F triggering and insertion of the F hydrophobic fusion peptide into the target membrane. Subsequent refolding into the more stable post-fusion F conformation drives merger of the viral and host membranes to form a pore for genome delivery to the cell cytoplasm.

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