



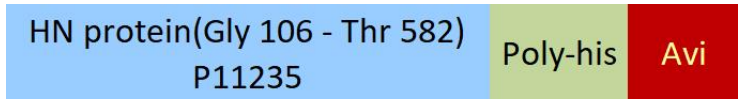
Synonym

HN protein

Source

Biotinylated Mumps virus (strain Miyahara vaccine) (MuV) HN Protein, His,Avitag(HNN-M82E3) is expressed from human 293 cells (HEK293). It contains AA Gly 106 - Thr 582 (Accession # [P11235](#)).
Predicted N-terminus: Gly 106

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 56.3 kDa. The protein migrates as 65-80 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>90% as determined by SDS-PAGE.

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

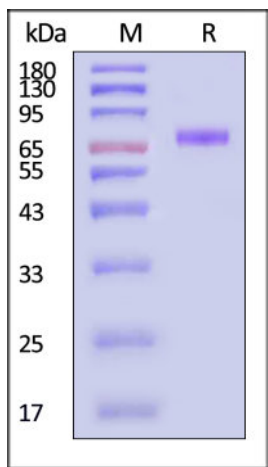
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

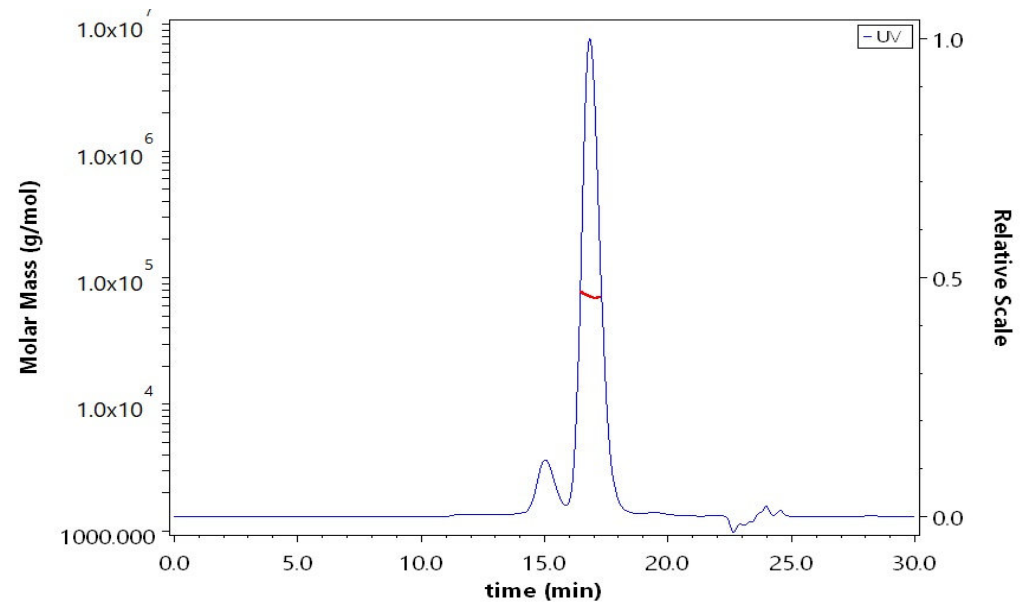
SDS-PAGE



Biotinylated Mumps virus (strain Miyahara vaccine) (MuV) HN Protein, His,Avitag 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-SPR

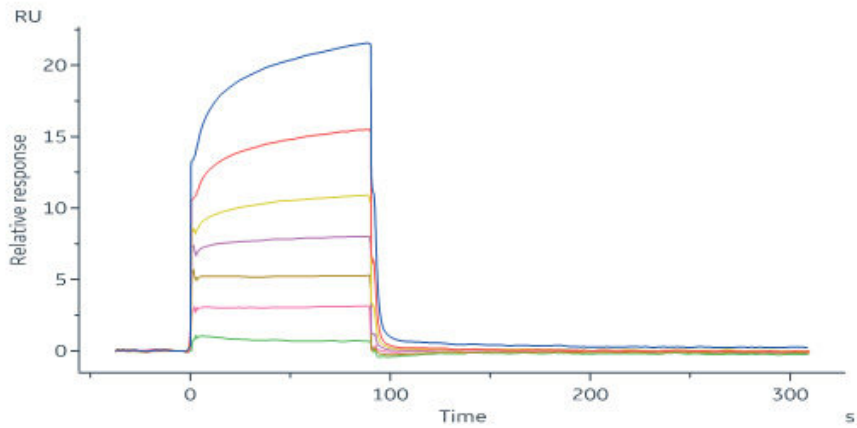
SEC-MALS



The purity of Biotinylated Mumps virus (strain Miyahara vaccine) (MuV) HN Protein, His,Avitag (Cat. No. HNN-M82E3) is more than 85% and the molecular weight of this protein is around 60-85 kDa verified by SEC-MALS. [Report](#)

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Biotinylated Mumps virus (strain Miyahara vaccine) (MuV) HN Protein, His,Avitag (Cat. No. HNN-M82E3) immobilized on CM5 Chip can bind e 3'-Sialyllactose / GM3 Ganglioside oligosaccharide with an affinity constant of 222 μ M as determined in a SPR assay (Biacore 8K) (QC tested).

Background

The two surface glycoproteins of the mumps virus are the hemagglutinin-neuraminidase (HN) and Fusion proteins. These glycoproteins are essential for viral entry to host cells, and the spread of newly formed virions. The HN protein is a 582-amino acid structural glycoprotein of the mumps virus. HN is a type II membrane protein in which the N terminus is oriented towards the cytoplasm and the C terminus is extracellular. The HN protein exhibits both hemagglutinin and neuraminidase properties and is critical for membrane fusion and viral entry into host cells.

