

Biotinylated Human Mucin-13 Protein, Fc,Avitag™ (MALS verified)

Catalog # MU3-H82F3



BIOSYSTEMS
Acro

Surprise Inside!

Synonym

Mucin-13, MUC13

Source

Biotinylated Human Mucin-13 Protein, Fc,Avitag (MU3-H82F3) is expressed from human 293 cells (HEK293). It contains AA Thr 19 - Leu 421 (Accession # [Q9H3R2](#)).

Predicted N-terminus: Thr 19

Molecular Characterization

Mucin-13(Thr 19 - Leu 421) Q9H3R2	Fc(Pro 100 - Lys 330) P01857-1	Avi
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This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 71.1 kDa. The protein migrates as 110-140 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.

>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.

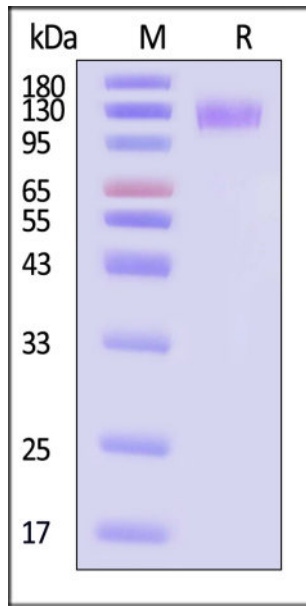
This product is stable after storage at:

- -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

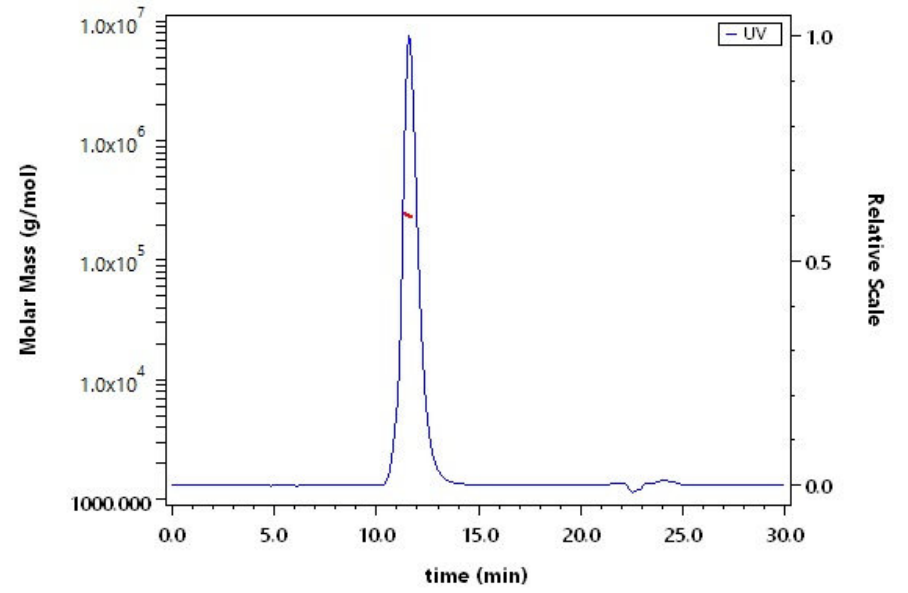
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



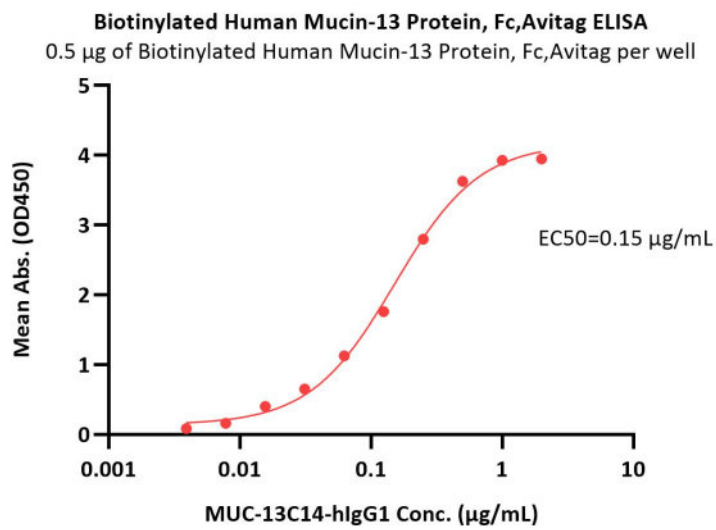
Biotinylated Human Mucin-13 Protein, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Human Mucin-13 Protein, Fc,Avitag (Cat. No. MU3-H82F3) is more than 90% and the molecular weight of this protein is around 200-245 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Biotinylated Human Mucin-13 Protein, Fc,Avitag (Cat. No. MU3-H82F3) at 5 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) pre-coated (0.5 µg/well) plate can bind MUC-13C14-hIgG1 with a linear range of 0.004-0.25 µg/mL (QC tested).

Background

Epithelial mucins, such as MUC13, are a family of secreted and cell surface glycoproteins expressed by ductal and glandular epithelial tissues (Williams et al., 2001 [PubMed 11278439]).[supplied by OMIM, Jul 2008]

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