



## Synonym

Mucin 1, MUC1, CD227, EMA, H23AG, KL-6, MAM6, MUC-1, SEC, MUC-1, X, MUC1, ZD, PEM, PEMT, PUM, CA15-3, Episialin

## Source

Human Mucin-1 (24-380), Fc Tag (MU1-H5254) is expressed from human 293 cells (HEK293). It contains AA Ser 24 - Ser 380 (Accession # [P15941-1](#)).

Predicted N-terminus: Ser 24

## Molecular Characterization

Mucin-1(Ser 24 - Ser 380) P15941-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 60.2 kDa. The protein migrates as 75 kDa and 120-150 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, 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

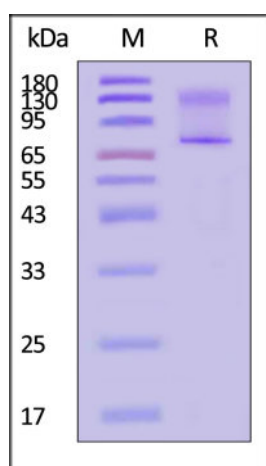
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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

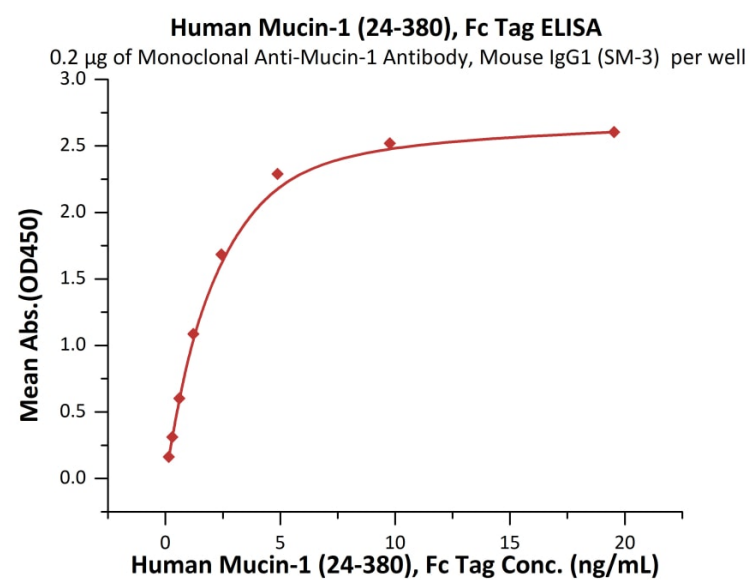
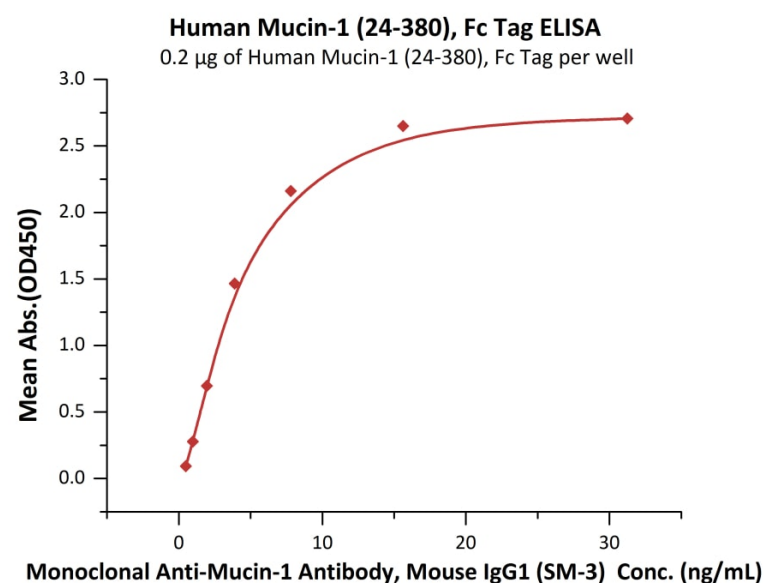


Human Mucin-1 (24-380), Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

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Immobilized Human Mucin-1 (24-380), Fc Tag (Cat. No. MU1-H5254) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-Mucin-1 Antibody, Mouse IgG1 (SM-3) with a linear range of 0.5-4 ng/mL (QC tested).

Immobilized Monoclonal Anti-Mucin-1 Antibody, Mouse IgG1 (SM-3) at 2 µg/mL (100 µL/well) can bind Human Mucin-1 (24-380), Fc Tag (Cat. No. MU1-H5254) with a linear range of 0.2-2 ng/mL (Routinely tested).

## Background

Membrane mucins have several functions in epithelial cells including cytoprotection, extravasation during metastases, maintenance of luminal structure, and signal transduction. MUC17, contains an extended, repetitive extracellular glycosylation domain and a carboxyl terminus with two EGF-like domains, a SEA module domain, a transmembrane domain, and a cytoplasmic domain with potential serine and tyrosine phosphorylation sites. Interacts via its C-terminus with PDZK1 and this interaction appears important for proper localization. Probably plays a role in maintaining homeostasis on mucosal surfaces.

## Clinical and Translational Updates

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