



## Synonym

Mucin-17, MUC-17, MUC17, MUC-3, MUC3

## Source

Human MUC-17, His Tag (MU7-H52H3) is expressed from human 293 cells (HEK293). It contains AA Arg 4131 - Leu 4390 (Accession # [Q685J3-1](#)).

Predicted N-terminus: Arg 4131 & 4244 Ser

## Molecular Characterization

MUC-17(Arg 4131 - Leu 4390)	Poly-his
Q685J3-1	

This protein carries a polyhistidine tag at the C-terminus. This protein was cleaved within the SEA domain between 4243 Gly and 4244 Ser, and was cleaved into N and C-terminal fragment with calculated MW of 12.6 kDa and 18.6 kDa respectively. The protein migrates as 20 kDa and 25-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu$ m 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

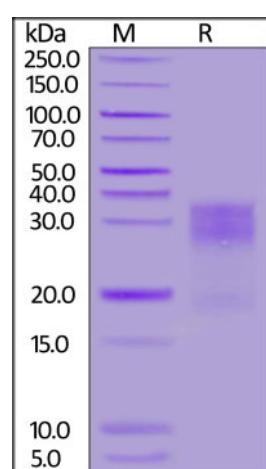
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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



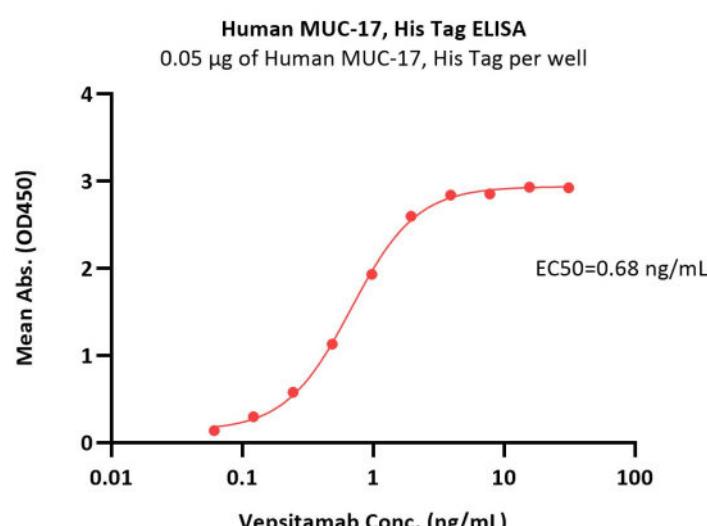
Human MUC-17, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-ELISA

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Immobilized Human MUC-17, His Tag (Cat. No. MU7-H52H3) at 0.5 µg/mL (100 µL/well) can bind Vepsitamab with a linear range of 0.06-2 ng/mL (QC 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.

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