



## 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

Cynomolgus Mucin-1, Fc Tag (MU1-C5252) is expressed from human 293 cells (HEK293). It contains AA Leu 254 - Gly 373 (Accession # [XP\\_005541632.1](#)).

Predicted N-terminus: Leu 254

## Molecular Characterization

Mucin-1(Leu 254 - Gly 373)	Fc(Pro 100 - Lys 330)
<a href="#">XP_005541632.1</a>	P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The mature Mucin-1 is a non-covalent heterodimeric complex with the proteolytically cleaved N-terminal fragment and C-terminal fragment. Each N-terminal fragment and C-terminal fragment has a calculated MW of 7.2 kDa and 32.8 kDa. The protein migrates as 48 kDa (precursor protein) and 40-45 kDa (C-terminus) 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 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 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

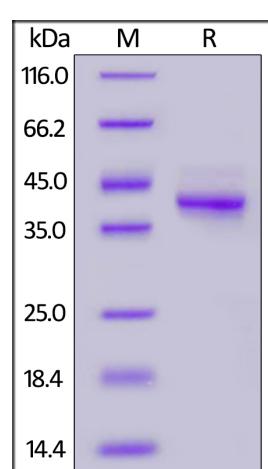
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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



Cynomolgus Mucin-1, 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%.

## 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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# Cynomolgus Mucin-1 / MUC-1 Protein, Fc Tag

Catalog # MU1-C5252



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