

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) XP_005541632.1	Fc(Pro 100 - Lys 330) 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 μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

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

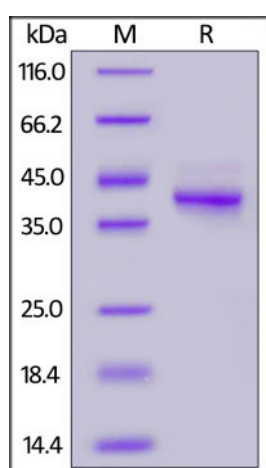
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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 overnight 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.

References

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.