Human Mucin-1 / MUC-1 Protein, Llama IgG2b Fc Tag, low endotoxin

Catalog # MU1-H5255

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, Llama IgG2b Fc Tag, low endotoxin(MU1-H5255) is expressed from human 293 cells (HEK293). It contains AA Ser 33 - Gly 167 (Accession # AAI20976).
Predicted N-terminus: Ser 33

Molecular Characterization

Mucin-1(Ser 33 - Gly 167) AAI20976	LlamaFc(Glu1 - Ser243) AAX73259.1

This protein carries a llama IgG2b Fc tag at the C-terminus

The protein has a calculated MW of 42.4 kDa. The protein migrates as 50-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in
Tris with Glycine, Arginine and 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

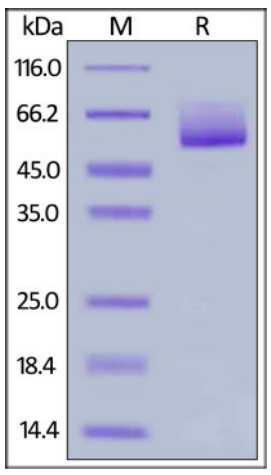
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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



Human Mucin-1, Llama IgG2b Fc Tag, low endotoxin 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.

Clinical and Translational Updates

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