



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 (1036-1155), His Tag(MU1-H52H5) is expressed from human 293 cells (HEK293). It contains AA Leu 1036 - Gly 1155 (Accession # [P15941-1](#)).

Predicted N-terminus: Leu 1036 (partial α chain) & Ser 1098 (partial β chain)

Molecular Characterization

Mucin-1(Leu 1036 - Gly 1155)
P15941-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus. The mature form of Mucin-1 is a non-covalent heterodimeric complex with the proteolytically cleaved partial α and partial β chain. Each partial α and partial β chain has a calculated MW of 7.2 kDa (partial α chain) and 8.2 kDa (partial β chain). The protein migrates as 13-15 kDa (partial α chain) and 10 kDa (partial β chain) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μ 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

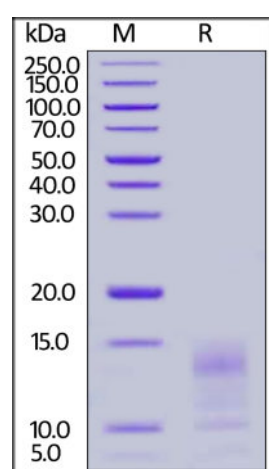
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

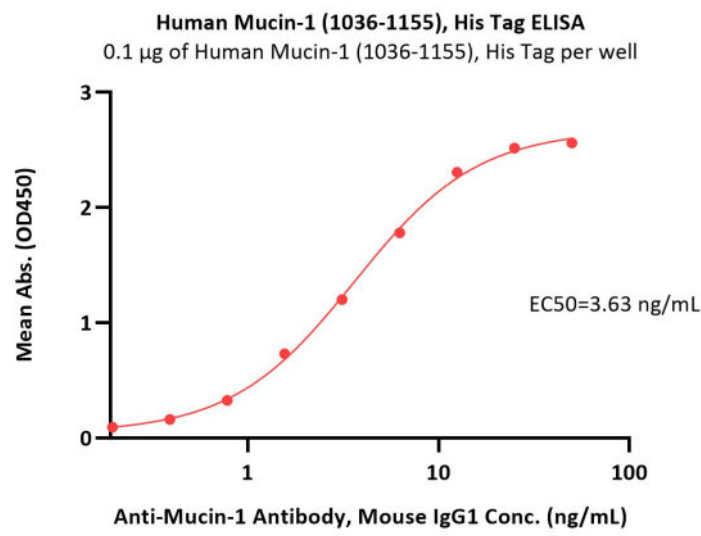


Human Mucin-1 (1036-1155), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

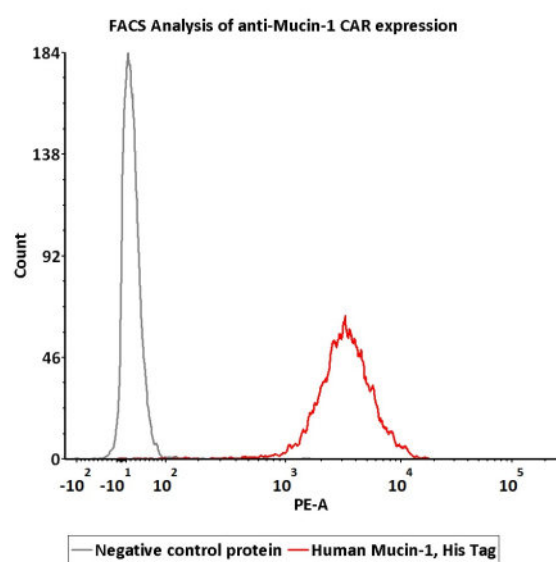
Discounts, Gifts,
and more!





Immobilized Human Mucin-1 (1036-1155), His Tag (Cat. No. MU1-H52H5) at 1 µg/mL (100 µL/well) can bind Anti-Mucin-1 Antibody, Mouse IgG1 with a linear range of 0.2-6 ng/mL (QC tested).

Bioactivity-FACS



2e5 of anti-Mucin-1 CAR-293 were stained with 100 µL of 0.1 µg/mL of Human Mucin-1, His Tag (Cat. No. MU1-H52H5) and negative control protein respectively, washed and then followed by PE anti-His Tag antibody and analyzed with FACS (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

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

Discounts, Gifts,
and more!

