Recombinant Human MUC1 protein, Fc-tagged

Cat. No. MUC1-726H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MUC1 protein (Ser33-Gly167) was fused to human IgG1 Fc tag at the C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Ser33-Gly167
Description	Mucin-1 (MUC1) is also known as Tumor-associated epithelial membrane antigen (EMA), Polymorphic epithelial mucin (PEM), Peanut-reactive urinary mucin (PUM), PEMT, Krebs von den Lungen-6 (KL-6), CD antigen CD227, Episialin, H23AG. MUC1 is a glycoprotein with extensive O-linked glycosylation of its extracellular domain. Mucins line the apical surface of epithelial cells in the lungs, stomach, intestines, eyes and several other organs. Mucins protect the body from infection by pathogen binding to oligosaccharides in the extracellular domain, preventing the pathogen from reaching the cell surface. Except protective function by binding to pathogens, MUC1 also functions in a cell signaling capacity. Overexpression of MUC1 is often associated with colon, breast, ovarian, lung and pancreatic cancers.
Predicted N Terminal	Ser33
Form	Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose.

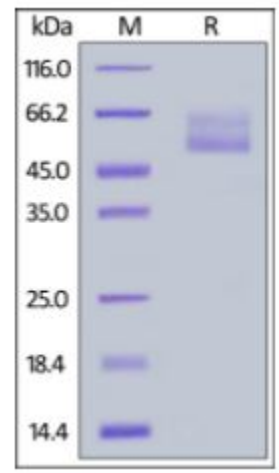
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Molecular Mass	The protein has a calculated MW of 40.8 kDa. The protein migrates as 50-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
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.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	MUC1
Official Symbol	MUC1
Synonyms	EMA; MCD; PEM; PUM; KL-6; MAM6; MCKD; PEMT; CD227; H23AG; MCKD1; MUC-1; ADMCKD; ADMCKD1; CA 15-3; MUC-1/X; MUC1/ZD; MUC-1/SEC
Gene ID	4582
mRNA Refseq	NM_002456.6
Protein Refseq	NP_002447.4

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MIM	158340
UniProt ID	P15941
SDS-PAGE of MUC1-726H	 Human 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 95%.

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