Active Recombinant Human MUC1 protein, His-tagged

Cat. No. MUC1-0502H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MUC1 protein(Leu1036-Gly1155), fused with His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1036-1155 a.a.
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Human Mucin-1 (1036-1155), His Tag 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.
Molecular Mass	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.
Proteinlength	Leu1036-Gly1155
Endotoxin	Less than 1.0 EU per

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	μg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	MUC1 mucin 1, cell surface associated [Homo sapiens]
Official Symbol	MUC1
Synonyms	MUC1; mucin 1, cell surface associated; mucin 1, transmembrane , PUM; mucin-1; CD227; PEM; episialin; DF3 antigen; H23 antigen; krebs von den Lungen-6; mucin 1, transmembrane; tumor-associated mucin; carcinoma-associated mucin; polymorphic epithelial mucin; peanut-reactive urinary mucin; tumor associated epithelial mucin; breast carcinoma-associated antigen DF3; tumor-associated epithelial membrane antigen; EMA; PUM; KL-6; MAM6; PEMT; H23AG; MUC-1; MUC-1/X; MUC1/ZD; MUC-1/SEC;
Gene ID	4582
mRNA Refseq	NM_001018016
Protein Refseq	NP_001018016
MIM	158340

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UniProt ID	P15941

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