

## Active Recombinant Human MUC1 protein, His-tagged

Cat. No. MUC1-0501H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MUC1 protein(Ser890-Gly1158), fused with His tag, was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	890-1158 a.a.
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
<b>Bio-activity</b>	Immobilized Human Mucin-1 (890-1158), His Tag at 1 µg/mL (100 µL/well) can bind Anti-Mucin-1 Antibody, Mouse IgG1 with a linear range of 0.4-6 ng/mL.
<b>Molecular Mass</b>	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 21.3 kDa (partial α chain) and 8.4 kDa (partial β chain). The protein migrates as 45-80 kDa (partial α chain) and 10 kDa (partial β chain) under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>Proteinlength</b>	Ser890-Gly1158
<b>Endotoxin</b>	Less than 1.0 EU per

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

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MUC1 mucin 1, cell surface associated [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">MUC1</a>
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">4582</a>
<b>mRNA Refseq</b>	<a href="#">NM_001018016</a>
<b>Protein Refseq</b>	<a href="#">NP_001018016</a>
<b>MIM</b>	<a href="#">158340</a>

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