

Active Recombinant Human MUC1 protein, His-Avi-tagged, Biotinylated

Cat. No. MUC1-619H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human MUC1 protein(Ser 890 - Gly 1158), fused with His and Avi tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Ser 890 - Gly 1158
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4, 10% trehalose.
Bio-activity	2e5 of Anti-Mucin-1 CAR-293 cells were stained with 100 μL of 0.1 μg/mL of Biotinylated Human Mucin-1, His,Avitag and negative control protein respectively, washed and then followed by PE-SA and analyzed with FACS.
Molecular Mass	This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag. 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 10.2 kDa (partial β chain). The protein migrates as 45-70 kDa (partial α chain) and 7 kDa and 14-15 kDa (partial β chain) under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per μg by the LAL method.

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Purity	>90% as determined by SDS-PAGE.
Storage	For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after 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 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin

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

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MIM	158340
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UniProt ID	P15941
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