

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

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Biotinylated Recombinant Human MUC1 protein(Ser 890 - Gly 1158), fused with His and Avi tag, was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | Ser 890 - Gly 1158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Bio-activity</b>     | 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.                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 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. |
| <b>Endotoxin</b>        | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| <b>Purity</b>         | >90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                     |
| <b>Storage</b>        | 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. |
| <b>Reconstitution</b> | 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.                                                                                                       |
| <b>Conjugation</b>    | Biotin                                                                                                                                                                                                                                                                              |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MUC1 mucin 1, cell surface associated [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Official Symbol</b> | MUC1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <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>         | 4582                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_001018016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>  | NP_001018016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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| MIM | 158340 |
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