

## Recombinant Human MUC1 Protein, Fc/His-tagged

Cat. No. MUC1-2061H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Mucin-1/MUC-1 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Met1-Gly167) of human Mucin-1/MUC-1 (Accession #NP_001018016.1) fused with an Fc, 6xHis tag at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Met1-Gly167
<b>Description</b>	<p>Mucin 1, cell surface associated (MUC1) or polymorphic epithelial mucin (PEM) is a mucin encoded by the MUC1 gene in humans. 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. Overexpression of MUC1 is often associated with colon, breast, ovarian, lung and pancreatic cancers. Joyce Taylor-Papadimitriou identified and characterised the antigen during her work with breast and ovarian tumors.</p>
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5 % mannitol.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	> 90% as determined by SDS-PAGE
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Storage</b>	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. 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 ug/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>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



UniProt ID

P15941

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA