

## 32-8943: Recombinant Human Mucin-1/MUC-1 (C-Fc)(Discontinued)

**Gene :** MUC1  
**Gene ID :** 4582  
**Uniprot ID :** P15941

### Description

Source: Human Cells.  
MW :42.3kD.

Recombinant Human Mucin-1 is produced by our Mammalian expression system and the target gene encoding Ala23-Gly167 is expressed with a Fc tag at the C-terminus. Mucin-1, is a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. This protein is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung, breast stomach and pancreas. MUC-1 exclusively located in the apical domain of the plasma membrane of highly polarized epithelial cells. MUC-1 can act both as an adhesion and an anti-adhesion protein. This protein may provide a protective layer on epithelial cells against bacterial and enzyme attack. MUC-1 participated in modulates signaling in ERK, SRC and NF-kappa-B pathways. In activated T-cells, MUC-1 influences directly or indirectly the Ras/MAPK pathway. MUC-1 promotes tumor progression and regulates TP53-mediated transcription and determines cell fate in the genotoxic stress response.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** APKPATVVTGSGHASSTPGGEKETSATQRSSVPSSTEKNAFNSSLEDPSTDYYQELQRDISEMFLQIYKQGGFL  
GLSNIKFRPGSVVVQLTLAFREGTINVHDVETQFNQYKTEAASRYNLTISDVSVSDVPFPFSAQSGAGVPGDIEG  
RMDPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHN  
AKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKN  
QVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALH  
NHYTQKSLSLSPGK

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.