

Recombinant Human MUC2 Protein, GST tagged

Cat. No. MUC2-1515H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MUC2 Protein with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a member of the mucin protein family. Mucins are high molecular weight glycoproteins produced by many epithelial tissues. The protein encoded by this gene is secreted and forms an insoluble mucous barrier that protects the gut lumen. The protein polymerizes into a gel of which 80% is composed of oligosaccharide side chains by weight. The protein features a central domain containing tandem repeats rich in threonine and proline that varies between 50 and 115 copies in different individuals. Downregulation of this gene has been observed in patients with Crohn disease and ulcerative colitis.
Molecular Mass	The protein has a calculated MW of 50 kDa.
AA Sequence	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY YIDGDVKLTQSMARIYIADKHNMMLGGCPKERAIEISMLEGAVLDIRYGVSR IAYSKDFE TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA FPKLVCFKKRIEAI PQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLEVL FQG PL GSLLNVIACHTVPCNTSCSPGFELMEAPGECCKKCEQTHCIIKRPDNQHVILKPGDF KSDPKNNCTFFSCVKIHNQLISSVSNITCPNFDASICIPGSITFMPNGCCKTCTPRNET RVPCSTVPVTTEVS YAGCTKTVLMNHCSGSCGTFVMSAKAQALDHSCSCCKEEK

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TSQREVVLSCPNGGSLTHTYTHIESCQCQDTVCGGLPTGTSTRAR

Purity > 85% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.27 mg/mL by Bradford

Storage Buffer Sterile 50 mM Tris-Acetate, pH7.5, 1 mM EDTA, 20% Glycerol

GENE INFORMATION

Gene Name MUC2 mucin 2, oligomeric mucus/gel-forming [Homo sapiens (human)]

Official Symbol MUC2

Synonyms MUC2; mucin 2, oligomeric mucus/gel-forming; MLP; SMUC; MUC-2; mucin-2; mucin 2, intestinal/tracheal

Gene ID 4583

mRNA Refseq NM_002457

Protein Refseq NP_002448

MIM 158370

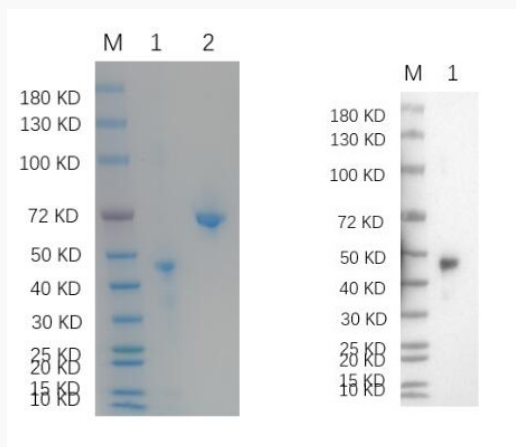
UniProt ID Q02817

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**Reducing 12% SDS-
PAGE (CBB stained)
and WB (Anti-GST
Mouse Monoclonal
antibody) analysis
profile of purified
MUC2.**



1. MUC2
2. BSA

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