

## 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
YIDGDVKLTQSMARIYIADKHNMLGGCPKERAEISMLEGAVLDIRYGVSR IAYSKD FE
TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA
FPKLVCFKKRIEAI PQIDKYLKSSKYIAWPLQG WQATFGGGDHPPKSDLEVL FQG PL
GSL LNVI ACTHVPCNTSCSPGFELMEAPGECCKKCEQTHCIIKRPDNQHVILKPGDF
KSDPKNNCTFFSCVKIHNQLISSVSNITCPNFDASICIPGSITFMPNGCCKTCTPRNET
RVPCSTVPVTTEVS YAGCTKTVLMNHCSGSCGTFVMYSAKAQALDHSCSCCKEEK
```

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TSQREVVLSCPNGGSLTHTYTHIESCQCQDTVCGGLPTGTSSRRAR

**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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