

Recombinant Pig MUC2 Protein, His-tagged

Cat. No. MUC2-1146P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Pig MUC2 Protein (Val36-Cys351) with His tag was expressed in E. coli.
Species	Pig
Source	E.coli
ProteinLength	Val36-Cys351
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 38.7 kDa; Accurate Molecular Mass: 42 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	MUC2 mucin 2, oligomeric mucus/gel-forming [<i>Sus scrofa</i> (pig)]
Official Symbol	MUC2
Synonyms	MUC2; mucin 2, oligomeric mucus/gel-forming; LOW QUALITY PROTEIN: mucin-2; intestinal mucin-like protein; small intestinal mucin
Gene ID	100127145
mRNA Refseq	XM_021082584
Protein Refseq	XP_020938243

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