

Mucin-2 (MUC2) Recombinant Protein | MUC2 recombinant protein

Recombinant Human Mucin-2 (MUC2), partial

CATALOG # AAA18472	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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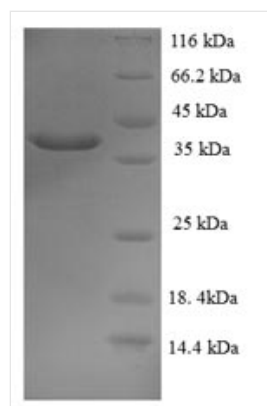
PRODUCT SYNONYMS

Mucin-2 (MUC2); Recombinant Human Mucin-2 (MUC2); partial; Intestinal mucin-2; MUC2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	36-240aa; partial
Sequence	VCSTWGNFHY KTFDGDVFRF PGLCDYNFAS DCRGSYKEFA VHLKRPGQA EAPAGVESIL LTIKDDTIYL TRHLAVLNGA VVSTPHYSPG LLIEKSDAYT KVYSRAGLTL MWNREDALML ELDTKFRNHT CGLCGDYNGL QSYSEFLSDG VLFSPLEFGN MQKINQPDVV CEDPEEEVAP ASCSEHRAEC ERLLTAEFA DCQDL
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for MUC2 recombinant protein	Coats the epithelia of the intestines, airways, and other mucus membrane-containing organs. Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces. Major constituent of both the inner and outer mucus layers of the colon and may play a role in excluding bacteria from the inner mucus layer.
Product Categories/Family for MUC2 recombinant protein	Signal Transduction

References	Molecular cloning of human intestinal mucin (MUC2) cDNA. Identification of the amino terminus and overall sequence similarity to prepro-von Willebrand factor.Gum J.R. Jr., Hicks J.W., Toribara N.W., Siddiki B., Kim Y.S.J. Biol. Chem. 269:2440-2446(1994) The human MUC2 intestinal mucin has cysteine-rich subdomains located both upstream and downstream of its central repetitive region.Gum J.R. Jr., Hicks J.W., Toribara N.W., Rothe E.-M., Lagace R.E., Kim Y.S.J. Biol. Chem. 267:21375-21383(1992) MUC-2 human small intestinal mucin gene structure. Repeated arrays and polymorphism.Toribara N.W., Gum J.R. Jr., Culhane P.J., Lagace R.E., Hicks J.W., Petersen G.M., Kim Y.S.J. Clin. Invest. 88:1005-1013(1991) Molecular cloning of human intestinal mucin cDNAs. Sequence analysis and evidence for genetic polymorphism.Gum J.R. Jr., Byrd J.C., Hicks J.W., Toribara N.W., Lamport D.T.A., Kim Y.S.J. Biol. Chem. 264:6480-6487(1989) Human intestinal mucin-like protein (MLP) is homologous with rat MLP in the C-terminal region, and is encoded by a gene on chromosome 11 p 15.5.Xu G., Huan L., Khatri I., Sajjan U.S., McCool D., Wang D., Jones C., Forstner G., Forstner J.Biochem. Biophys. Res. Commun. 183:821-828(1992) In vivo glycosylation of mucin tandem repeats.Silverman H.S., Parry S., Sutton-Smith M., Burdick M.D., McDermott K., Reid C.J., Batra S.K., Morris H.R., Hollingsworth M.A., Dell A., Harris A.Glycobiology 11:459-471(2001) The N terminus of the MUC2 mucin forms trimers that are held together within a trypsin-resistant core fragment.Godl K., Johansson M.E.V., Lidell M.E., Moergelin M., Karlsson H., Olson F.J., Gum J.R. Jr., Kim Y.S., Hansson G.C.J. Biol. Chem. 277:47248-47256(2002) An autocatalytic cleavage in the C terminus of the human MUC2 mucin occurs at the low pH of the late secretory pathway.Lidell M.E., Johansson M.E.V., Hansson G.C.J. Biol. Chem. 278:13944-13951(2003) A quantitative atlas of mitotic phosphorylation.Dephoure N., Zhou C., Villen J., Beausoleil S.A., Bakalarski C.E., Elledge S.J., Gygi S.P.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008) The protein disulfide isomerase AGR2 is essential for production of intestinal mucus.Park S.-W., Zhen G., Verhaeghe C., Nakagami Y., Nguyenvu L.T., Barczak A.J., Killeen N., Erle D.J.Proc. Natl. Acad. Sci. U.S.A. 106:6950-6955(2009) Proteomic analyses of the two mucus layers of the colon barrier reveal that their main component, the Muc2 mucin, is strongly bound to the Fcgbp protein.Johansson M.E.V., Thomsson K.A., Hansson G.C.J. Proteome Res. 8:3549-3557(2009)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	557129045
NCBI GeneID	4583
NCBI Accession #	NP_002448.3
NCBI GenBank Nucleotide #	NM_002457.3
UniProt Accession #	Q02817; Q14878
Molecular Weight	24.8 kDa
NCBI Official Full Name	mucin-2
NCBI Official Synonym Full Names	mucin 2, oligomeric mucus/gel-forming
NCBI Official Symbol	MUC2
NCBI Official Synonym Symbols	MLP; SMUC; MUC-2
NCBI Protein Information	mucin-2
UniProt Protein Name	Mucin-2
UniProt Gene Name	MUC2
UniProt Synonym Gene Names	SMUC; MUC-2
UniProt Entry Name	MUC2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.