

fimbrin D-mannose specific adhesin (fimH) Recombinant Protein | fimH recombinant protein

Recombinant Escherichia coli Type 1 fimbrin D-mannose specific adhesin (fimH)

CATALOG # AAA18545	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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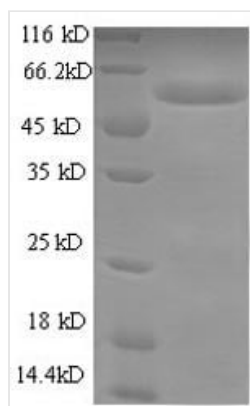
PRODUCT SYNONYMS

fimbrin D-mannose specific adhesin (fimH); Recombinant Escherichia coli Type 1 fimbrin D-mannose specific adhesin (fimH); fimH 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	22-300aa; Full Length of Mature Protein
Sequence	FACKTANGTA IPIGGGSANV YVNLAPVVNV GQNLVVDLST QIFCHNDYPE TITDYVTLQR GSAYGGVLSN FSGTVKYSGS SYPFPTTSET PRVVYNSRTD KPWPVALYLT PVSSAGGVAI KAGSLIAVLI LRQTNNYNSD DFQFVWNIYA NNDVVVPTGG CDVSARDVTV TLPDYPGSVP IPLTVYCAKS QNLGYLSGT TADAGNSIFT NTASFSPAQG VGVQLTRNGT IIPANNTVSL GAVGTSASVSL GLTANYARTG GQVTAGNVQS IIGVTFVYQ
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 fimH recombinant protein	Involved in regulation of length and mediation of adhesion of type 1 fimbriae (but not necessary for the production of fimbriae). Adhesin responsible for the binding to D-mannose. It is laterally positioned at intervals in the structure of the type 1 fimbriae. In order to integrate FimH in the fimbriae FimF and FimG are needed.
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References	Three fim genes required for the regulation of length and mediation of adhesion of Escherichia coli type 1 fimbriae.Klemm P., Christiansen G.Mol. Gen. Genet. 208:439-445(1987) FimH family of type 1 fimbrial adhesins functional heterogeneity due to minor sequence variations among fimH genes.Sokurenko E.V., Courtney H.S., Ohman D.E., Klemm P., Hasty D.L.J. Bacteriol. 176:748-755(1994) Analysis of the Escherichia coli genome VI DNA sequence of the region from 92.8 through 100 minutes.Burland V.D., Plunkett G. III, Sofia H.J., Daniels D.L., Blattner F.R.Nucleic Acids Res. 23:2105-2119(1995) The complete genome sequence of Escherichia coli K-12.Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V., Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F., Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J., Mau B., Shao Y.Science 277:1453-1462(1997) Highly accurate genome sequences of Escherichia coli K-12 strains MG1655 and W3110.Hayashi K., Morooka N., Yamamoto Y., Fujita K., Isono K., Choi S., Ohtsubo E., Baba T., Wanner B.L., Mori H., Horiuchi T.Mol. Syst. Biol. 2:E1-E5(2006) Purification of the Escherichia coli type 1 pilin and minor pilus proteins and partial characterization of the adhesin protein.Hanson M.S., Hempel J., Brinton C.C. Jr.J. Bacteriol. 170:3350-3358(1988) Direct evidence that the FimH protein is the mannose-specific adhesin of Escherichia coli type 1 fimbriae.Krogfelt K.A., Bergmans H., Klemm P.Infect. Immun. 58:1995-1998(1990) Structural basis of tropism of Escherichia coli to the bladder during urinary tract infection.Hung C.S., Bouckaert J., Hung D., Pinkner J., Widberg C., DeFusco A., Auguste C.G., Strouse R., Langermann S., Waksman G., Hultgren S.J.Mol. Microbiol. 44:903-915(2002)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16132141
NCBI GeneID	948847
NCBI Accession #	NP_418740.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P08191; Q2M5Z3
Molecular Weight	31.1 kDa
NCBI Official Full Name	minor component of type 1 fimbriae
NCBI Official Symbol	fimH
NCBI Official Synonym Symbols	ECK4311; JW4283
NCBI Protein Information	minor component of type 1 fimbriae
UniProt Protein Name	Protein FimH
UniProt Gene Name	fimH
UniProt Entry Name	FIMH_ECOLI

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.