

Type 1 fimbrin D-mannose specific adhesin (fimH)(V48C,L55C,R81P,N91S,S99N,T179P) Recombinant Protein | fimH recombinant protein

Recombinant Escherichia coli Type 1 fimbrin D-mannose specific adhesin (fimH)(V48C,L55C,R81P,N91S,S99N,T179P), partial

CATALOG # AAA28076	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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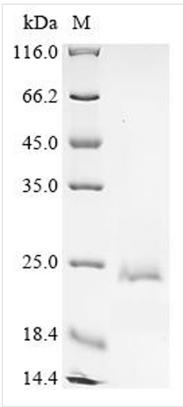
PRODUCT SYNONYMS

Type 1 fimbrin D-mannose specific adhesin (fimH)(V48C; L55C; R81P; N91S; S99N; T179P); Recombinant Escherichia coli Type 1 fimbrin D-mannose specific adhesin (fimH)(V48C; partial; Protein FimH; fimH recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	Liquid or Lyophilized powder If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8
Sequence Positions	22-180aa (V48C, L55C, R81P, N91S, S99N, T179P); partial-length
Sequence	FACKTANGTA IPIGGGSANV YVNLAPCVNV GQNCVVDLST QIFCHNDYPE TITDYVTLQP GSAYGGVLSS FSGTVKYNGS SYPFPTTSET PRVVYNSRTD KPWPVALYLT PVSSAGGVAI KAGSLIAVLI LRQTNNYNSD DFQFVWNIYA NNDVVVPPG
Species	Escherichia coli (strain K12)
Tag	N-terminal 6xHis-tagged
Research Area	Others
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

IMAGES



SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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.
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)

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.