





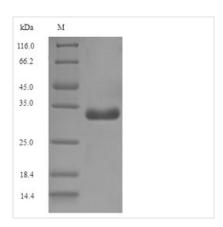
Recombinant Escherichia coli F17 fimbrial protein (F17a-A)

Product Code	CSB-EP318126ENL
Relevance	Fimbriae (also called pili), polar filaments radiating from the surface of the bacterium to a length of 0.5-1.5 micrometers and numbering 100-300 per cell, enable bacteria to colonize the epithelium of specific host organs.
Abbreviation	Recombinant E.coli F17a-A protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P11312
Alias	F17 fimbrial adhesive antigen F17 pilin
Product Type	Recombinant Protein
Immunogen Species	Escherichia coli
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	YDGKITFNGKVVDQTCSVTTESKNLTVKLPTVSANSLASSGKVVGLTPFTILLE GCNTPAVTGAQNVNAYFEPNANTDYTTGNLTNTASSGASNVQIQLLNADGVK AIKLGQAAAAQSVDTVAINDANVTLRYNAQYYATGVATAGDVTSTVNYTIAYQ
Research Area	Microbiology
Source	E.coli
Target Names	F17a-A
Protein Names	F17 fimbrial adhesive antigen F17 pilin
Expression Region	22-180aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	32.4 kDa
Protein Length	Full Length of Mature Protein
Image	

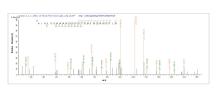
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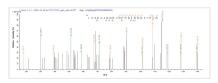




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP318126ENL could indicate that this peptide derived from E.coli-expressed Escherichia coli F17a-A.



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Description

Amino acids 22-180 constitute the expression domain of recombinant Escherichia coli F17a-A. The theoretical molecular weight of the F17a-A protein is 32.4 kDa. Expression of this F17a-A protein is conducted in e.coli. The Nterminal 6xHis-SUMO tag was smoothly integrated into the coding gene of F17a-A, which enables a simple process of detecting and purifying the F17a-A recombinant protein in the following steps.

The Escherichia coli F17 fimbrial protein (F17a-A) is a structural component of the F17 fimbriae, which are hair-like appendages on the surface of certain pathogenic E. coli strains. These fimbriae play a crucial role in the adhesion of bacteria to host cells, facilitating colonization and the establishment of infection. F17a-A is involved in the assembly and structural integrity of these appendages. The adhesion of E. coli expressing F17 fimbriae to host tissues is a key step in the pathogenesis of infections, particularly those affecting the intestines of animals. Understanding the structure and function of F17a-A can contribute to insights into bacterial virulence mechanisms and may inform the development of strategies to prevent or treat infections caused by F17-positive E. coli strains.

Reconstitution

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°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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