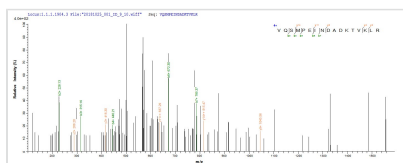




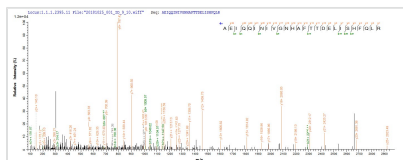
Recombinant Escherichia coli Outer membrane protein assembly factor BamA (BamA), partial

Product Code	CSB-EP364271ENV1
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.	P0A940
Storage Buffer	Tris-based buffer?50% glycerol
Product Type	Recombinant Protein
Immunogen Species	Escherichia coli (strain K12)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	AEIQQINIVGNHAFTTDELISHFQLRDEVPWWNVVGDRKYQKQKLAGDLETLR SYYLDRGYARFNIDSTQVSLTPDKKGIYVTNITEGDQYKLSGVEVSGNLAGHS AEIEQLTKIEPGELYNGTKVTKMEDDIKLLGRYGYAYPRVQSMPEINDADKTV KLRVNVDAGNRFYVRKIRFEGNDTSKDAVLRREMRQMEGAWLGSDLVDQGK ERLNRLGFFETVDTDTQRVPGSPDQVDVYKVKERNTG
Lead Time	3-7 business days
Research Area	Others
Source	E.coli
Gene Names	bamA
Expression Region	175-424aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	36.0 kDa
Protein Description	Partial

Image



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP364271ENV1 could indicate that this peptide derived from E.coli-expressed Escherichia coli (strain K12) bamA.



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Description

The recombinant Escherichia coli (strain K12) bamA was expressed with the amino acid range of 175-424. The theoretical molecular weight of the bamA protein is 36.0 kDa. This bamA recombinant protein is manufactured in e.coli. Fusion of the N-terminal 10xHis tag and C-terminal Myc tag into the bamA encoding gene fragment was conducted, allowing for easier detection and purification of the bamA protein in subsequent stages.

Escherichia coli Outer membrane protein assembly factor BamA is a central component of the β -barrel assembly machinery (BAM) complex, crucial for the proper folding and insertion of outer membrane proteins (OMPs). Research on BamA primarily explores its role in outer membrane biogenesis, focusing on understanding its structure, mechanism, and interactions with substrates. Investigations aim to elucidate the intricate processes of protein folding and insertion, providing insights into bacterial outer membrane integrity and potential targets for antimicrobial drug development, crucial for combating bacterial infections and addressing antibiotic resistance.

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.