

BamA Protein, E.coli (Myc, His)

Cat. No.:	HY-P71515
Synonyms:	bamA; yaeT; yzzN; yzzY; b0177; JW0172Outer membrane protein assembly factor BamA; Omp85
Species:	E.coli
Source:	E. coli
Accession:	P0A940 (175A-424G)
Gene ID:	944870
Molecular Weight:	Approximately 36.0 kDa

PROPERTIES

AA Sequence	<pre> A E I Q Q I N I V G N H A F T T D E L I S H F Q L R D E V P W W N V V G D R K Y Q K Q K L A G D L E T L R S Y Y L D R G Y A R F N I D S T Q V S L T P D K K G I Y V T V N I T E G D Q Y K L S G V E V S G N L A G H S A E I E Q L T K I E P G E L Y N G T K V T K M E D D I K K L L G R Y G Y A Y P R V Q S M P E I N D A D K T V K L R V N V D A G N R F Y V R K I R F E G N D T S K D A V L R R E M R Q M E G A W L G S D L V D Q G K E R L N R L G F F E T V D T D T Q R V P G S P D Q V D V V Y K V K E R N T G </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0 or PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	BamA, a pivotal component of the outer membrane protein assembly complex (Bam), plays a central role in the intricate process of assembling and inserting beta-barrel proteins into the outer membrane. Together with BamD, BamA constitutes the core machinery of this assembly process, and the efficient folding and insertion of substrates into the outer membrane require the coordinated action of all five subunits. BamA's structural features include a beta-barrel with a lateral gate that opens between the first and last strands, facilitating the insertion of substrates into the outer membrane. Acting as a
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receptor for CdiA-EC93, the contact-dependent growth inhibition effector of E.coli strain EC93, BamA is crucial in mediating this microbial interaction. Notably, its susceptibility to CdiA-EC93 is dependent on the specific BamA variant present, as replacing BamA with homologs from different bacterial strains alters susceptibility. Additionally, BamA's role in CDI appears independent of other components of the Bam complex.

Caution: Product has not been fully validated for medical applications. For research use only.

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