

## BioAB Protein, Bacteroides fragilis, Recombinant (His & Myc)

### General Information

Synonyms: bioB; Biotin biosynthesis bifunctional protein BioAB

Protein Construction: 1-748 aa

Species: Bacteroides fragilis

Expression Host: E. coli

Accession: Q5LEY1

Molecular Weight: 90.6 kDa (predicted)

AA Sequence: MTIEEIKNQVLQGTAISREQAEWLALYPRKEELYDAAHDITTACASQEFDMCSIINARSGRCPENCKWCAQSS  
HYKTKADVYDLVSADECLRQAKYNEAQGVNRFSLVTSGRKPSPKNMKELCVAARRMRRHSSIRLCASLGLLD  
EELQALYDAGVTRYHCNLETAPSHFDSLCTTHTQEQLKTLHAARRVGM DLCCGGIIGMGETVEQRIEFAFTL  
RDLNIQSIPIINLLQPIGTPLEHQSPLEEEILTTVALFRFINPAAYLRFAGGRSQTPEAVRKSLEYIGINSAIVGDL  
LTTLGSKVSDDKEMILSEGYHFADSQFDREHLWHPYTSTSNPLPVYKVKRADGATITLESQTLIEGMSSWWC  
AVHGYNHPILNQAVQDQLSRMSHVMFGGLTHDPAIELGKLLLPLVPPSMQKIFYADSGSVAVEVALKMAVQ  
YWYAAGKPEKNFVTIRNGYHGDTWNAMSVCDPVTGMHSIFGSALPIRHFLPAPSSRFGEWNPEDIRPLEY  
LLEKHADELAFILEPIVQGAGGMRFYHPEYLKEAARLCHRYGVLLIFDEIATGFGRTGKLFWEHAGVEPDIM  
CIGKALTGGYMTLSAVLTTNEVADCISNHAPGAFMHGPTFMGNPLACAVACASVRLLLTSGWQENVKRIEAQ  
LNRELAPARELPQVADVRVLGAIGVIEMKEPVNMAYLQRRFVEEGIWLRPFKLIYVMPFFIITPEQLTKLTEGM  
IRIISNGLPGSQTK

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: 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 8.0.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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**Protein Background**

Catalyzes two activities which are involved in the biotine biosynthesis: the conversion of dethiobiotin (DTB) to biotin by the insertion of a sulfur atom into dethiobiotin via a radical-based mechanism, and the transfer of the alpha-amino group from S-adenosyl-L-methionine (SAM) to 7-keto-8-aminopelargonic acid (KAPA) to form 7,8-diaminopelargonic acid (DAPA).

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