Biotin Synthase (bioB) Bacillus Subtilis Subsp. Natto Recombinant Protein

PRODUCT OVERVIEW

Product Name	Biotin synthase (bioB), Recombinant Protein
Full Product Name	Recombinant Bacillus subtilis subsp. natto Biotin synthase (bioB)
Product Gene Name	bioB recombinant protein
Product Synonym Gene Name	bioB
Sequence	MNQWMELANR VLAGAEVTDE EALSILHCPD EDILLLMHGA FHIRKHFYGK KVKLNMIMNA KSGLCPENCG YCSQSAISKA PIESYRMVNK ETLLEGAKRA HDLNIGTYCI VASGRGPSNR EVDQVVDAVQ EIKETYGLKV CACLGLLKPE QAKRLKDAGV DRYNHNLNTS QRNHSNITTS HTYDDRVNTV EIAKESGLSP CSGAIIGIKE TKQDVIDIAK SLKALDADSI PVNFLHAIDG TPLEGVNELN PLYCLKVLAL FRFINPSKEI RISGGREVNL RSLQPLGLYA ANSIFVGDYL TTAGQEETED HKMLSDLGFE VESVEEMKAS LSAKS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	36,880 Da
Sequence Positions	1-335, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8KZM7
Species	Bacillus subtilis subsp. natto
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for bioB recombinant protein	MBS1385550 is a recombinant protein targeting bioB. Also known as Recombinant Bacillus subtilis subsp. natto Biotin synthase (bioB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of bioB recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for bioB. It may not necessarily be applicable to this product.

NCBI GI #	75400952
NCBI Accession #	Q8KZM7.1
UniProt Primary Accession #	Q8KZM7
NCBI Official Full Name	Biotin synthase
UniProt Protein Name	Biotin synthase

Protein Family	Biotin biosynthesis bifunctional protein
UniProt Gene Name	bioB
UniProt Comments for bioB	Catalyzes the conversion of dethiobiotin (DTB) to biotin by the insertion of a sulfur atom into dethiobiotin via a radical-based mechanism.
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