ATP-Dependent Dethiobiotin Synthetase Biod (bioD) Cyanothece Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	ATP-dependent dethiobiotin synthetase BioD (bioD), Recombinant Protein
Full Product Name	Recombinant Cyanothece sp. ATP-dependent dethiobiotin synthetase BioD (bioD)
Product Gene Name	bioD recombinant protein
Sequence	MFTLLITGTD TDAGKTVLTT ALAAYWRTYF PSQSVALLKP LQSGVGDREL YRELFALNQP PEEINPLYFQ APLAPPLAAE LEQRSIDLSL PWQTLVKLRQ SYDRVLVEGV GGLGSPITWE LTVADLARDW GLATLLVVPV KLGAIGQAVA NVALARQAGV NLKGIVLNCV QPRSETEIAQ WAPADLITNL TQIPVLGVLP YLGDRTNLAQ LAAAAAQLDL EAFLSA
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	24,327 Da
Sequence Positions	1-226, 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 B8HNL6
Species	Cyanothece sp. (strain PCC 7425 / 29141)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for bioD recombinant protein	MBS1256287 is a recombinant protein targeting bioD. Also known as Recombinant Cyanothece sp. ATP-dependent dethiobiotin synthetase BioD (bioD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of bioD 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 bioD. It may not necessarily be applicable to this product.

NCBI GI #	501727395
NCBI Accession #	WP_012626838.1
UniProt Primary Accession #	B8HNL6
GenBank Nucleotide #	WP_012626838.1
NCBI Official Full Name	ATP-dependent dethiobiotin synthetase BioD
UniProt Protein Name	ATP-dependent dethiobiotin synthetase BioD

UniProt Synonym Protein Names	DTB synthetase
Protein Family	ATP-dependent dethiobiotin synthetase
UniProt Gene Name	bioD
UniProt Synonym Gene Names	DTBS
UniProt Comments for bioD	Catalyzes a mechanistically unusual reaction, the ATP-dependent insertion of CO2 between the N7 and N8 nitrogen atoms of 7,8-diaminopelargonic acid (DAPA) to form an ureido ring.
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