Dihydrolipoyl Dehydrogenase (bfmBC) Bacillus Subtilis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Dihydrolipoyl dehydrogenase (bfmBC), Recombinant Protein
Full Product Name	Recombinant Bacillus subtilis Dihydrolipoyl dehydrogenase (bfmBC)
Product Gene Name	bfmBC recombinant protein
Product Synonym Gene Name	bfmBC; yqiV; BSU24060
Product Synonym Names	Dihydrolipoyl dehydrogenase; EC=1.8.1.4; Dihydrolipoamide dehydrogenase; E3 component of branched-chain alpha-keto acid dehydrogenase complex; LPD-Val
Sequence	MATEYDVVIL GGGTGGYVAA IRAAQLGLKT AVVEKEKLGG TCLHKGCIPS KALLRSAEVY RTAREADQFG VETAGVSLNF EKVQQRKQAV VDKLAAGVNH LMKKGKIDVY TGYGRILGPS IFSPLPGTIS VERGNGEEND MLIPKQVIIA TGSRPRMLPG LEVDGKSVLT SDEALQMEEL PQSIIIVGGG VIGIEWASML HDFGVKVTVI EYADRILPTE DLEISKEMES LLKKKGIQFI TGAKVLPDTM TKTSDDISIQ AEKDGETVTY SAEKMLVSIG RQANIEGIGL ENTDIVTENG MISVNESCQT KESHIYAIGD VIGGLQLAHV ASHEGIIAVE HFAGLNPHPL DPTLVPKCIY SSPEAASVGL TEDEAKANGH NVKIGKFPFM AIGKALVYGE SDGFVKIVAD RDTDDILGVH MIGPHVTDMI SEAGLAKVLD ATPWEVGQTI HPHPTLSEAI GEAALAADGK AIHF
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	50,436 Da
Sequence Positions	1-474
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 P54533
Species	Bacillus subtilis (strain 168)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for bfmBC recombinant protein	MBS1236144 is a recombinant protein targeting bfmBC. Also known as Recombinant Bacillus subtilis Dihydrolipoyl dehydrogenase (bfmBC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of bfmBC 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 bfmBC. It may not necessarily be applicable to this product.

NCBI GI #	255767526
NCBI GeneID	938669

NCBI Accession #	NP_390286.2
UniProt Primary Accession #	P54533
UniProt Related Accession #	P54533
GenBank Nucleotide #	NC_000964.3
NCBI Official Full Name	dihydrolipoyl dehydrogenase
NCBI Official Symbol	lpdV
UniProt Protein Name	Dihydrolipoyl dehydrogenase
UniProt Synonym Protein Names	Dihydrolipoamide dehydrogenase; E3 component of branched-chain alpha-keto acid dehydrogenase complex; LPD-Val
UniProt Gene Name	bfmBC
UniProt Synonym Gene Names	yqiV
UniProt Entry Name	DLDH2_BACSU
NCBI Protein Information	dihydrolipoyl dehydrogenase
UniProt Comments for bfmBC	The branched-chain alpha-keto dehydrogenase complex catalyzes the overall conversion of alpha-keto acids to acyl-CoA and CO2. It contains multiple copies of 3 enzymatic components: branched-chain alpha-keto acid decarboxylase (E1), lipoamide acyltransferase (E2) and lipoamide dehydrogenase (E3).
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