Cytochrome B6 (petB) Marchantia Polymorpha Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cytochrome b6 (petB), Recombinant Protein
Full Product Name	Recombinant Marchantia polymorpha Cytochrome b6 (petB)
Product Gene Name	petB recombinant protein
Product Synonym Gene Name	petB
Product Synonym Names	Recombinant Cytochrome b6 (petB); Cytochrome b6
Sequence	MGKVYDWFEE RLEIQAIADD ITSKYVPPHV NIFYCLGGIT LTCFLVQVAT GFAMTFYYRP TVTEAFSSVQ YIMTEVNFGW LIRSVHRWSA SMMVLMMILH IFRVYLTGGF KKPRELTWVT GVILAVLTVS FGVTGYSLPW DQIGYWAVKI VTGVPEAIPI IGSPLVELLR GSVSVGQSTL TRFYSLHTFV LPLLTAIFML MHFLMIRKQG ISGPL
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	24,307 Da
Sequence Positions	1-215
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.
Chromosome Location	NC_001319.1 (71424..72566)
3D Structure	ModBase 3D Structure for P06248
Species	Marchantia polymorpha (Liverwort) (Marchantia aquatica)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for petB recombinant protein	MBS1227976 is a recombinant protein targeting petB. Also known as Recombinant Marchantia polymorpha Cytochrome b6 (petB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of petB 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 petB. It may not necessarily be applicable to this product.

NCBI GI #	11466733
NCBI GeneID	2702562
NCBI Accession #	NP_039329.1
UniProt Primary Accession #	P06248

UniProt Related Accession #	P06248
GenBank Nucleotide #	NC_001319.1
NCBI Official Full Name	cytochrome b6
NCBI Official Symbol	petB
UniProt Protein Name	Cytochrome b6
Protein Family	Cytochrome
UniProt Gene Name	petB
UniProt Entry Name	CYB6_MARPO
NCBI Protein Information	petB; cytochrome b6
UniProt Comments for petB	Function: Component of the cytochrome b6-f complex, which mediates electron transfer between photosystem II (PSII) and photosystem I (PSI), cyclic electron flow around PSI, and state transitions By similarity. HAMAP-Rule MF_00633 Cofactor: Binds 2 heme groups. One heme group is bound covalently by a single cysteine link, the other one non-covalently By similarity. Subunit structure: The 4 large subunits of the cytochrome b6-f complex are cytochrome b6, subunit IV (17 kDa polypeptide, PetD), cytochrome f and the Rieske protein, while the 4 small subunits are PetG, PetL, PetM and PetN. The complex functions as a dimer By similarity. Subcellular location: Plastid › chloroplast thylakoid membrane; Multi-pass membrane protein By similarity HAMAP-Rule MF_00633. Miscellaneous: Heme 1 (or BH or b566) is high-potential and absorbs at about 566 nm, and heme 2 (or BL or b562) is low-potential and absorbs at about 562 nm By similarity. HAMAP-Rule MF_00633 Sequence similarities: Belongs to the cytochrome b family. PetB subfamily.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/cytochrome-b6-petb/1227976