ATP Synthase Subunit B (Atpf) (Cphamn1_2500) Chlorobium Phaeobacteroides Recombinant Protein

PRODUCT OVERVIEW

Product Name	ATP synthase subunit b (atpF) (Cphamn1_2500), Recombinant Protein
Full Product Name	Recombinant Chlorobium phaeobacteroides ATP synthase subunit b (atpF)
Product Gene Name	Cphamn1_2500 recombinant protein
Product Synonym Gene Name	atpF
Product Synonym Names	Recombinant ATP synthase subunit b (atpF); ATP synthase subunit b; ATP synthase F(0) sector subunit b ATPase subunit I F-type ATPase subunit b; F-ATPase subunit b
Sequence	MLTSGIIVLS GGLLDPNPGL IFWTTVTFLI VLFILKKFTW GPMLSALEER EKGIKNSIDR AQSAKEEAEA VLNKNRQLLA QAGADADKII REGKEYGDKL KAEITEKAHL EASRMISSAK DEIDQEKRRA LTELRTEVAD LAVKGAEKII MANLDAEKQK NIVDSMIQEL SQHRN
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	19,487 Da
Sequence Positions	1-175
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_010831.1 (2672111..2672638, complement)
3D Structure	ModBase 3D Structure for B3EQ96
Species	Chlorobium phaeobacteroides (strain BS1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Cphamn1_2500 recombinant protein	MBS1236951 is a recombinant protein targeting Cphamn1_2500. Also known as Recombinant Chlorobium phaeobacteroides ATP synthase subunit b (atpF). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Cphamn1_2500 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 Cphamn1_2500. It may not necessarily be applicable to this product.

NCBI GI #	189501405
NCBI GeneID	6376198

NCBI Accession #	YP_001960875.1
UniProt Primary Accession #	B3EQ96
UniProt Related Accession #	ZP_00530444
GenBank Nucleotide #	NC_010831.1
NCBI Official Full Name	F0F1 ATP synthase subunit B
NCBI Official Symbol	Cphamn1_2500
UniProt Protein Name	ATP synthase subunit b
UniProt Synonym Protein Names	ATP synthase F(0) sector subunit b; ATPase subunit I; F-type ATPase subunit b
UniProt Gene Name	atpF
UniProt Synonym Gene Names	F-ATPase subunit b
UniProt Entry Name	ATPF_CHLPB
NCBI Protein Information	F0F1 ATP synthase subunit B
UniProt Comments for Cphamn1_2500	Function: F1F0 ATP synthase produces ATP from ADP in the presence of a proton or sodium gradient. F-type ATPases consist of two structural domains, F1 containing the extramembraneous catalytic core and F0 containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation By similarity. HAMAP-Rule MF_01398Component of the F0 channel, it forms part of the peripheral stalk, linking F1 to F0 By similarity. HAMAP-Rule MF_01398 Subunit structure: F-type ATPases have 2 components, F1 - the catalytic core - and F0 - the membrane proton channel. F1 has five subunits: alpha3, beta3, gamma1, delta1, epsilon1. F0 has four main subunits: a1, b2 and c(10-14). The alpha and beta chains form an alternating ring which encloses part of the gamma chain. F1 is attached to F0 by a central stalk formed by the gamma and epsilon chains, while a peripheral stalk is formed by the delta and b chains By similarity. Subcellular location: Cell inner membrane; Single-pass membrane protein By similarity HAMAP-Rule MF_01398. Sequence similarities: Belongs to the ATPase B chain family.
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.
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