ATP Synthase Subunit a (atpB) Bacillus Amyloliquefaciens Recombinant Protein

PRODUCT OVERVIEW

Product Name	ATP synthase subunit a (atpB), Recombinant Protein
Full Product Name	Recombinant Bacillus amyloliquefaciens ATP synthase subunit a (atpB)
Product Gene Name	atpB recombinant protein
Product Synonym Gene Name	atpB
Product Synonym Names	Recombinant ATP synthase subunit a (atpB); ATP synthase subunit a; ATP synthase F0 sector subunit a F-ATPase subunit 6
Sequence	MNHDYRTIDL FGLTFNLTNI LMITVASVIV LLIAILTTRT LSIRPGKAQN FMEWIVDFVR NIIGSTMDLK TGANFLALGV TLLMYIFVSN MLGLPFSVTV GHELWWKSPT ADPAITLTLA VMVVSLTHYY GVKMKGLKEY SKDYLRPVPL MFPMKIIEEF ANTLTLGLRL YGNIFAGEIL LGLLANLATN FYSNSFFLGL VGTVGAIIPM LAWQAFSLFI GTIQAFIFTM LTMVYMSHKI SHDH
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	27,307 Da
Sequence Positions	1-244
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_009725.1 (3515300..3516034, complement)
3D Structure	ModBase 3D Structure for A7Z9Q6
Species	Bacillus amyloliquefaciens (strain FZB42)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for atpB recombinant protein	MBS1254078 is a recombinant protein targeting atpB. Also known as Recombinant Bacillus amyloliquefaciens ATP synthase subunit a (atpB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of atpB 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 atpB. It may not necessarily be applicable to this product.

NCBI GI #	154687802
NCBI GeneID	5462350
NCBI Accession #	YP_001422963.1

UniProt Primary Accession #	A7Z9Q6
UniProt Related Accession #	A7Z9Q6
GenBank Nucleotide #	NC_009725.1
NCBI Official Full Name	F0F1 ATP synthase subunit A
NCBI Official Symbol	atpB
UniProt Protein Name	ATP synthase subunit a
UniProt Synonym Protein Names	ATP synthase F0 sector subunit a; F-ATPase subunit 6
Protein Family	ATP synthase
UniProt Gene Name	atpB
UniProt Entry Name	ATP6_BACA2
NCBI Protein Information	F0F1 ATP synthase subunit A
UniProt Comments for atpB	Function: Key component of the proton channel; it plays a direct role in the translocation of protons across the membrane By similarity. HAMAP-Rule MF_01393 Subunit structure: F-type ATPases have 2 components, CF1 - the catalytic core - and CF0 - the membrane proton channel. CF1 has five subunits: alpha3, beta3, gamma1, delta1, epsilon1. CF0 has three main subunits: a1, b2 and c(9-12). The alpha and beta chains form an alternating ring which encloses part of the gamma chain. CF1 is attached to CF0 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 membrane; Multi-pass membrane protein By similarity HAMAP-Rule MF_01393. Sequence similarities: Belongs to the ATPase A 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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