ATP Synthase Subunit B (Atpf) (Tpet_1177) Thermotoga Petrophila Recombinant Protein

PRODUCT OVERVIEW

Product Name	ATP synthase subunit b (atpF) (Tpet_1177), Recombinant Protein
Full Product Name	Recombinant Thermotoga petrophila ATP synthase subunit b (atpF)
Product Gene Name	Tpet_1177 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	MGFLEINWTS AAMLMLFVLM VYFLNKFLYT PFIEMAEKRR KKVEEDLKSA EQLKEEAEKM RSEAERFLSE ARQRADEIVE SARKEAEAIV EEAREKAKKE AQNIVESAKT QIEVEYKKAL EQVQERAAEL SVILATKLLQ KVFQDERARR EYLVKILKEE IEKS
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	19,295 Da
Sequence Positions	1-164
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_009486.1 (1200923..1201417)
3D Structure	ModBase 3D Structure for A5ILW8
Species	Thermotoga petrophila (strain RKU-1 / BAA-488 / DSM 13995)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Tpet_1177 recombinant protein	MBS1260477 is a recombinant protein targeting Tpet_1177. Also known as Recombinant Thermotoga petrophila ATP synthase subunit b (atpF). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Tpet_1177 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 Tpet_1177. It may not necessarily be applicable to this product.

NCBI GI #	148270307
NCBI GeneID	5170782
NCBI Accession #	YP_001244767.1

UniProt Primary Accession #	A5ILW8
GenBank Nucleotide #	NC_009486.1
NCBI Official Full Name	ATP synthase F0 subunit B
NCBI Official Symbol	Tpet_1177
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_THEP1
NCBI Protein Information	ATP synthase F0 subunit B
UniProt Comments for Tpet_1177	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 three 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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