# ATP Synthase Subunit B 1 (atpF1) Rhodospirillum Centenum Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | ATP synthase subunit b 1 (atpF1), Recombinant Protein |
| **Full Product Name** | Recombinant Rhodospirillum centenum ATP synthase subunit b 1 (atpF1), partial |
| **Product Gene Name** | atpF1 recombinant protein |
| **Sequence** | MAIDGWTVAL QAVNFLILVL LLRHFLYRPV LAMIDRRKAE ATRLLDDAAL RVEAAKAERQ KAETLRADLE AQADALLADS RARAGKELEE LRTRARREAD GILAEGRKAL AEERRAAEAD LRGKAAGLAV EIAGRLLAAA TPGARVEPFL DRVCTRLTAL PEPERQVLAG QAADGGIRIV TAVPLDEAGR AHCRDRAHTL LGPDIALTFA DDPELLAGVE LHFAHTVIRD SWRDLLGRIG LELDGHDDAH RIA |
| **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** | 27,562 Da |
| **Sequence Positions** | 1-253 |
| **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 B6IQS5 |
| **Species** | Rhodospirillum centenum (strain 51521 / SW) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for atpF1 recombinant protein** | MBS1102136 is a recombinant protein targeting atpF1. Also known as Recombinant Rhodospirillum centenum ATP synthase subunit b 1 (atpF1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of atpF1 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 atpF1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 501561123 |
| **NCBI Accession #** | WP_012565603.1 |
| **UniProt Primary Accession #** | B6IQS5 |
| **GenBank Nucleotide #** | WP_012565603.1 |
| **NCBI Official Full Name** | ATP synthase subunit b 1 |
| **UniProt Protein Name** | ATP synthase subunit b 1 |

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| **UniProt Synonym Protein Names** | ATP synthase F(0) sector subunit b 1 |
| **Protein Family** | ATP synthase |
| **UniProt Gene Name** | atpF1 |
| **UniProt Synonym Gene Names** | F-ATPase subunit b 1 |
| **UniProt Comments for atpF1** | 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. |
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