# ATP Synthase Subunit Beta, Mitochondrial (atp5b) Dictyostelium Discoideum Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | ATP synthase subunit beta, mitochondrial (atp5b), Recombinant Protein |
| **Full Product Name** | Recombinant Dictyostelium discoideum ATP synthase subunit beta, mitochondrial (atp5b), partial |
| **Product Gene Name** | atp5b recombinant protein |
| **Product Synonym Gene Name** | atp5b |
| **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** | 70,845 Da |
| **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 Q55CS9 |
| **Species** | Dictyostelium discoideum (Slime mold) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for atp5b recombinant protein** | MBS1478738 is a recombinant protein targeting atp5b. Also known as Recombinant Dictyostelium discoideum ATP synthase subunit beta, mitochondrial (atp5b), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of atp5b 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 atp5b. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 66826095 |
| **NCBI GeneID** | 8617357 |
| **NCBI Accession #** | XP_646402.1 |
| **UniProt Primary Accession #** | Q55CS9 |
| **GenBank Nucleotide #** | XM_641310.1 |
| **NCBI Official Full Name** | ATP synthase beta chain, mitochondrial |
| **NCBI Official Symbol** | atp5b |
| **UniProt Protein Name** | ATP synthase subunit beta, mitochondrial |

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|---|---|
| **UniProt Gene Name** | atp5b |
| **NCBI Protein Information** | ATP synthase beta chain, mitochondrial |
| **UniProt Comments for atp5b** | Mitochondrial membrane ATP synthase (F1F0 ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. 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. Subunits alpha and beta form the catalytic core in F1. Rotation of the central stalk against the surrounding alpha3beta3 subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits (). |
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