# ATP Synthase Subunit Beta (atpD) Bifidobacterium Longum Subsp. Infantis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | ATP synthase subunit beta (atpD), Recombinant Protein |
| **Full Product Name** | Recombinant Bifidobacterium longum subsp. infantis ATP synthase subunit beta (atpD) |
| **Product Gene Name** | atpD recombinant protein |
| **Sequence** | MADNQTTAAE PTNGRVTRVQ GSVIDVEFPV GHLPDIYNAL KVTIVNTGAK EEGEAKETEI TLEVEQHLGD STVRCVALKP TDGLVRGASV SDTGVPISVP VGDVTKGHVF DVSGNILNKK PDETITVSER WPIHRNPPAF DQLESKTQMF ETGIKVIDLL TPYVQGGKIG LFGGAGVGKT VLIQEMIQRV AQNHGGVSVF AGVGERTREG NDLIGEMAEA GVLEKTALVF GQMDEQPGTR LRVPLTALTM AEYFRDVQNQ DVLLFIDNIF RFTQAGSEVS TLLGRMPSAV GYQPNLADEM GSLQERITST RGHSITSLQA IYVPADDYTD PAPATTFAHL DATTELSRDI ASKGIYPAVD PLSSTSRILD PRYVGQAHYD CANRVKAILQ RNKELQDIIA LIGIDELSEE DKTTVNRARK IEQFLGQNFY VAEKFTGRPG SYVPADETIE AFTRICDGVY DDVPEQAFSG IGGIDDLEEK WHNMQKELGA |
| **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** | 53,338 Da |
| **Sequence Positions** | 1-490, Full length protein |
| **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 B7GTZ3 |
| **Species** | Bifidobacterium longum subsp. infantis (strain 15697 / DSM 20088 / JCM 1222 / 11817 / S12) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for atpD recombinant protein** | MBS1230373 is a recombinant protein targeting atpD. Also known as Recombinant Bifidobacterium longum subsp. infantis ATP synthase subunit beta (atpD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of atpD 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 atpD. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 501572331 |
| **NCBI Accession #** | WP_012576744.1 |
| **UniProt Primary Accession #** | B7GTZ3 |
| **UniProt Secondary Accession #** | E8MP84 |

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| **GenBank Nucleotide #** | WP_012576744.1 |
| **NCBI Official Full Name** | ATP synthase subunit beta |
| **UniProt Protein Name** | ATP synthase subunit beta |
| **UniProt Synonym Protein Names** | ATP synthase F1 sector subunit beta |
| **Protein Family** | ATP synthase |
| **UniProt Gene Name** | atpD |
| **UniProt Comments for atpD** | Produces ATP from ADP in the presence of a proton gradient across the membrane. The catalytic sites are hosted primarily by the beta subunits. |
| **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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