

# ATP synthase subunit beta, mitochondrial (ATP5B) Recombinant Protein | ATP5B recombinant protein

Recombinant Human ATP synthase subunit beta, mitochondrial (ATP5B), partial

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA235197</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|-------------------------------|-----------------------------------------------------------------|

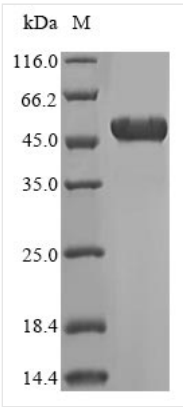
## PRODUCT SYNONYMS

ATP synthase subunit beta; mitochondrial (ATP5B); Recombinant Human ATP synthase subunit beta; partial; ATP5B recombinant protein

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence Positions      | 230-529. Partial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence                | YSVFAGVGER TREGNDLYHE MIESGVINLK DATSKVALVY GQMNEPPGAR ARVALTGLTV AEYFRDQEGQ DVLLFIDNIF RFTQAGSEVS ALLGRIPSAV GYQPTLATDM GTMQUERITTT KKGSITSVQA IYVPADDLTD PAPATTF AHL DATTVLSRAI AELGIYPAVD PLDSTSRIMD PNIVGSEHYD VARGVQKILQ DYKSLQDIIA ILGMDELSEE DKLTVSRARK IQRFLSQPFQ VAEVFTGHMG KLVPLKETIK GFQQILAGEY DHLPEQAFYM VGPIEEAVAK ADKLAEHSS                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Organism                | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tag Information         | N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Production Note         | <b>Special Offer:</b> The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Coli host-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our <b>or email to</b> for more details. |
| Preparation and Storage | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C.<br>The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C.<br>Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.                                                                                                                                                                                                                                                                                                                                                          |

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for ATP5B recombinant protein | 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. |
| Product Categories/Family for ATP5B recombinant protein   | <a href="#">Tags &amp; Cell Markers</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| References                                                | "The human ATP synthase beta subunit gene: sequence analysis, chromosome assignment, and differential expression." Neckelmann N., Warner C.K., Chung A., Kudoh J., Minoshima S., Fukuyama R., Maekawa M., Shimizu Y., Shimizu N., Liu J.D., Wallace D.C.Genomics 5:829-843 (1989)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                          |
|----------------------------------|--------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">32189394</a>                                                 |
| NCBI GeneID                      | <a href="#">506</a>                                                      |
| NCBI Accession #                 | <a href="#">NP_001677.2</a>                                              |
| NCBI GenBank Nucleotide #        | <a href="#">NM_001686.3</a>                                              |
| UniProt Accession #              | <a href="#">P06576</a> ; <a href="#">Q14283</a> ; <a href="#">A8K4X0</a> |
| Molecular Weight                 | 52.8 kDa                                                                 |
| NCBI Official Full Name          | ATP synthase subunit beta, mitochondrial                                 |
| NCBI Official Synonym Full Names | ATP synthase F1 subunit beta                                             |
| NCBI Official Symbol             | ATP5F1B                                                                  |
| NCBI Official Synonym Symbols    | ATP5B; ATPMB; ATPSB; HEL-S-271                                           |
| NCBI Protein Information         | ATP synthase subunit beta, mitochondrial                                 |
| UniProt Protein Name             | ATP synthase subunit beta, mitochondrial                                 |
| UniProt Gene Name                | <b>ATP5B</b>                                                             |
| UniProt Synonym Gene Names       | ATPMB; ATPSB                                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/atp5b-recombinant-protein-e-coli/235197>