

ATP synthase subunit beta Recombinant Protein | Atp5b recombinant protein

Recombinant Mouse ATP synthase subunit beta, mitochondrial

CATALOG # AAA113428	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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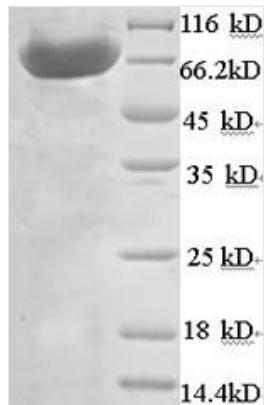
PRODUCT SYNONYMS

ATP synthase subunit beta; Recombinant Mouse ATP synthase subunit beta; mitochondrial; 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	47-529aa; Full-Length of the Mature Protein
Sequence	AAQASAAPKA GTATGRIVAV IGAVVDVQFD EGLPPILNAL EVQGRDSRLV LEVAQHLGES TVRTIAMDGT EGLVRGQKVL DSGAPIKIPV GPETLGRIMN VIGEPIDERG PIKTKQFAPI HAEAPEFIEM SVEQEILVTG IKVVDLLAPY AKGGKIGLFG GAGVGKTVLI MELINNVAKA HGGYSVFAGV GERTREGNDL YHEMIESGVI NLKDATSKVA LVYGMNEPP GARARVALTG LTVAEYFRDQ EGQDVLLFID NIFRFTQAGS EVSALLGRIP SAVGYQPTLA TDMGTMQERI TTTKKGSITS VQAIYVPADD LTDPAPATTF AHLDTTVLS RAIAELGIYP AVDPLDTSR IMDPNIVGNE HYDVARGVQK ILQDYKSLQD IAILGMDEL SEEDKLTVSR ARKIQRFLSQ PFQVAEVFTG HMGKLVPLKE TIKGFQQILA GEYDHLPEQA FYMVGPIEEA VAKADKLAEE HGS
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

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.
References	A novel principle for conferring selectivity to poly(A) -binding proteins interdependence of two ATP synthase beta-subunit mRNA-binding proteins.Andersson U., Antonicka H., Houstek J., Cannon B.Biochem. J. 346:33-39(2000) Housekeeping genes for phylogenetic analysis of eutherian relationships.Kullberg M., Nilsson M.A., Arnason U., Harley E.H., Janke A.Mol. Biol. Evol. 23:1493-1503(2006) Lubec G., Kang S.U., Klug S., Yang J.W., Zigmond M.Submitted (JUL-2007) to UniProtKB Mitochondrial phosphoproteome revealed by an improved IMAC method and MS/MS/MS.Lee J., Xu Y., Chen Y., Sprung R., Kim S.C., Xie S., Zhao Y.Mol. Cell. Proteomics 6:669-676(2007) Modulation of F0F1-ATP synthase activity by cyclophilin D regulates matrix adenine nucleotide levels.Chinopoulos C., Konrad C., Kiss G., Metelkin E., Torocsik B., Zhang S.F., Starkov A.A.FEBS J. 278:1112-1125(2011) SIRT5-mediated lysine desuccinylation impacts diverse metabolic pathways.Park J., Chen Y., Tishkoff D.X., Peng C., Tan M., Dai L., Xie Z., Zhang Y., Zwaans B.M., Skinner M.E., Lombard D.B., Zhao Y.Mol. Cell 50:919-930(2013) Label-free quantitative proteomics of the lysine acetylome in mitochondria identifies substrates of SIRT3 in metabolic pathways.Rardin M.J., Newman J.C., Held J.M., Cusack M.P., Sorensen D.J., Li B., Schilling B., Mooney S.D., Kahn C.R., Verdin E., Gibson B.W.Proc. Natl. Acad. Sci. U.S.A. 110:6601-6606(2013)

NCBI AND UNIPROT INFORMATION

NCBI GI #	31980648
NCBI GeneID	11947
NCBI Accession #	NP_058054.2
NCBI GenBank Nucleotide #	NM_016774.3
UniProt Accession #	P56480; Q0QEP4; Q3TFD7; Q3TIP9; Q3TK44; Q3TWD5; Q3TX28; Q3U6U4; Q3U774; Q3UB69; Q3UF69; Q8CI65
Molecular Weight	53.7 kDa
NCBI Official Full Name	ATP synthase subunit beta, mitochondrial
NCBI Official Synonym Full Names	ATP synthase, H+ transporting mitochondrial F1 complex, beta subunit
NCBI Official Symbol	Atp5b
NCBI Protein Information	ATP synthase subunit beta, mitochondrial
UniProt Protein Name	ATP synthase subunit beta, mitochondrial
UniProt Gene Name	Atp5b
UniProt Entry Name	ATPB_MOUSE

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/atp5b-recombinant-protein-e-coli/113428>