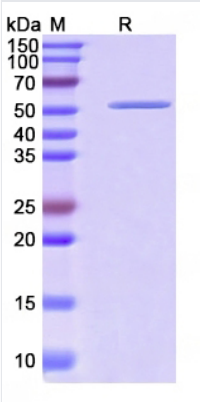
ATP5F1B Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	ATP5F1B, Recombinant Protein
Full Product Name	Recombinant Human ATP5F1B Protein, N-His
Product Gene Name	ATP5F1B recombinant protein
Product Synonym Names	ATPSB; ATP synthase F1 subunit beta; ATP5F1B; ATP5B; ATPMB; ATP synthase subunit beta; mitochondrial
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	56560 MW
Sequence Positions	Thr60-Ser528
OMIM	M27132 Genomic DNA
3D Structure	ModBase 3D Structure for P06576
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for ATP5F1B recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for ATP5F1B recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for ATP5F1B recombinant protein	MBS1576635 is a recombinant protein targeting ATP5F1B. Also known as Recombinant Human ATP5F1B Protein, N-His. Host: E coli.
Other Notes	Small volumes of ATP5F1B 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.



SDS-Page of ATP5F1B recombinant protein
SDS PAGE for Recombinant Human ATP5F1B Protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATP5F1B. It may not necessarily be applicable to this product.

NCBI GI #	32189394
NCBI GeneID	506
NCBI Accession #	NP_001677.2
UniProt Primary Accession #	P06576
UniProt Secondary Accession #	Q14283; A8K4X0
UniProt Related Accession #	P06576
GenBank Nucleotide #	NM_001686.3
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
UniProt Protein Name	ATP synthase subunit beta, mitochondrial
UniProt Gene Name	ATP5B
UniProt Synonym Gene Names	ATPMB; ATPSB
NCBI Protein Information	ATP synthase subunit beta, mitochondrial
NCBI Summary for ATP5F1B	This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the beta subunit of the catalytic core. [provided by RefSeq, Jul 2008]
UniProt Comments for ATP5F1B	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.

Research Articles on ATP5F1B	**1.** experiments implicate circulating NEFA in obesity in suppressing muscle protein metabolism, and establish impaired beta-F1-ATPase translation as an important consequence of obesity
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