

Recombinant Human ATP5F1B Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ATP5F1B-5496H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATP5B MS Standard C13 and N15-labeled recombinant protein (NP_001677) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	56.6 kDa
AA Sequence	MLGFVGRVAAAPASGALRRLTPSASLPPAQLLLRAAPTAVHPVRDYAAQTSPSPKA GAATGRIVAVIGAVVDVQFDEGLPPILNALEVQGRETRLVLEVAQHLGESTVRTIAMD GTEGLVRGQKVLDSGAPIKIPVGPETLGRIMNVIGEPIDERGPIKTKQFAPIHAEAPEF MEMSVEQEILVTGIKVVDLLAPYAKGGKIGLFGGAGVGKTVLIMELINNVAKAHGGYS

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VFAGVGERTREGNDLYHEMIESGVINLKDATSKVALVYGQMNEPPGARARVALTGL
 TVAEYFRDQEGQDVLLFIDNIFRFTQAGSEVSALLGRIPSAVGYQPTLATDMGTMQE
 RITTTKKSITSVQAIYVPADDLTDPAPATTFAHLDATTVLSRAIAELGIYPAVDPLDST
 SRIMDPNIVGSEHYDVARGVQKILQDYKSLQDIIAILGMDELSEEDKLTVSRARKIQRF
 LSQPFQVAEVFTGHMGKLVPLKETIKGFQQILAGEYDHLPEQAFYMGPIEEAVAKA
 DKLAEEHSSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ATP5F1B ATP synthase F1 subunit beta \[Homo sapiens \(human\) \]](#)

Official Symbol [ATP5F1B](#)

Synonyms ATP5F1B; ATP synthase F1 subunit beta; ATP5B; ATPMB; ATPSB; HEL-S-271; ATP synthase subunit beta, mitochondrial; ATP synthase, H⁺ transporting, mitochondrial F1 complex, beta polypeptide; epididymis secretory protein Li 271; mitochondrial ATP synthase beta subunit; mitochondrial ATP synthetase, beta subunit; EC 7.1.2.2

Gene ID [506](#)

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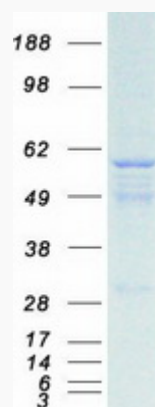
mRNA Refseq [NM_001686](#)

Protein Refseq [NP_001677](#)

MIM [102910](#)

UniProt ID [P06576](#)

SDS-PAGE



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