

Recombinant Human ATP5B protein, GST-tagged

Cat. No. ATP5B-977H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP5B full-length ORF (NP_001677.2, 1 a.a. - 529 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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, F ₁ , and the membrane-spanning component, F _o , 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]
Molecular Mass	83 kDa
AA Sequence	MLGFVGRVAAAPASGALRRLTPSASLPPAQLLLRAAPTAVHPVRDYAAQTSPSPKA GAATGRIVAVIGAVVDVQFDEGLPPILNALEVQGRETRLVLEVAQHLGESTVRTIAMD GTEGLVRGQKVLDSGAPIKIPVGPETLGRIMNVIGEPIDERGPIKTKQFAPIHAEAPEF MEMSVEQEILVTGIKVVDLLAPYAKGGKIGLFGGAGVGKTVLIMELINNVAKAHGGYS

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VFAGVGERTREGNDLYHEMIESGVINLKDATSKVALVYGQMNEPPGARARVALTGL
TVAEYFRDQEGQDVLLFIDNIFRFTQAGSEVSALLGRIPSAVGYQPTLATDMGTMQE
RITTTKKSITSVQAIYVPADDLTDPAPATTFAHLDATTVLSRAIAELGIYPAVDPLDST
SRIMDPNIVGSEHYDVARGVQKILQDYKSLQDIIAILGMDELSEEDKLTVSRARKIQRF
LSQPFQVAEVFTGHMGKLVPLKETIKGFQQILAGEYDHLPEQAFYMGPIEEAVAKA
DKLAEHSS

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

ATP5B ATP synthase, H⁺ transporting, mitochondrial F1 complex, beta polypeptide [Homo sapiens]

Official Symbol

ATP5B

Synonyms

ATP5B; ATP synthase, H⁺ transporting, mitochondrial F1 complex, beta polypeptide; ATP5B; ATP synthase subunit beta, mitochondrial; mitochondrial ATP synthase beta subunit; mitochondrial ATP synthetase, beta subunit; ATPMB; MGC5231;

Gene ID

506

mRNA Refseq

NM_001686

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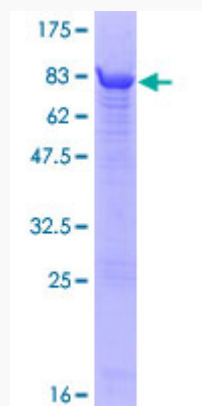
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Protein Refseq NP_001677

MIM 102910

UniProt ID P06576



12.5% SDS-PAGE Stained with Coomassie Blue.

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