

Recombinant Full Length Human ATP5B Protein, GST-tagged

Cat. No. ATP5B-1339HF **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	In Vitro Cell Free System
ProteinLength	529 amino acids
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. [provided by RefSeq, Jul 2008]
Molecular Mass	83 kDa
AA Sequence	MLGFVGRVAA APASGALRRL TPSASLPPAQ LLLRAAPTAV HPVRDYAAQT SPSPKAGAAT GRIVAVIGAV VDVQFDEGLP PILNALEVQG RETRLVLEVA QHLGESTVRT IAMDGTEGLV RGQKVLD SGA PIKIPVGPET LGRIMNVIGE

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PIDERGPIKT KQFAPIHAEA PEFMEMSVEQ EILVTGIKVV DLLAPYAKGG
 KIGLFGGAGV GKTVLIMELI NNVAKAHGGY SVFAGVGERT REGNDLYHEM
 IESGVINLKD ATSKVALVYG QMNEPPGARA RVALTGTLVA EYFRDQEGQD
 VLLFIDNIFR FTQAGSEVSA LLGRIPSAVG YQPTLATDMG TMQERITTTK
 KGSITSVQAI YVPADDLTDP APATTFAHLD ATTVLSRAIA ELGIYPAVDP
 LDSTSRIMDP NIVGSEHYDV ARGVQKILQD YKSLQDIIAI LGMDELSEED
 KLTVSRARKI QRFLSQPFQV AEVFTGHMGK LVPLKETIKG FQQILAGEYD
 HLPEQAFYMV GPIEEAVAKA DKLAEEHSS

Applications

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

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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Protein Refseq	NP_001677
MIM	102910
UniProt ID	P06576

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