

Recombinant Full Length Human ATP5F1 Protein, GST-tagged

Cat. No. ATP5F1-1452HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ATP5F1 full-length ORF (NP_001679.2, 1 a.a. - 256 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	256 amino acids
Description	<p>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 seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the b subunit of the proton channel. [provided by RefSeq, Jul 2008]</p>
Molecular Mass	55.3 kDa
AA Sequence	<p>MLSRVLSAA ATAAPSLKNA AFLGPGVLQA TRTFHTGQPH LVPVPPLPEY GGKVRVYGLIP EEFFQFLYPK TGVTGPYVLG TGLILYALSK EIYVISAETF TALSVLGVMV YGIKKYGPV FV ADFADKLNEQ KLAQLEEAQ ASIQHQNAI</p>

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DTEKSQQALV QKRHYLFDVQ RNNIAMALEV TYRERLYRVY KEVKNRLDYH
 ISVQNMMRRK EQEHMINWVE KHVVSISTQ QEKETIAKCI ADLKLLAKKA
 QAQPVM

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

[ATP5F1 ATP synthase, H⁺ transporting, mitochondrial Fo complex, subunit B1 \[Homo sapiens \]](#)

Official Symbol

[ATP5F1](#)

Synonyms

ATP5F1; ATP synthase, H⁺ transporting, mitochondrial Fo complex, subunit B1; ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit b, isoform 1 , ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit B1; ATP synthase subunit b, mitochondrial; ATPase subunit b; H⁺-ATP synthase subunit b; ATP synthase B chain, mitochondrial; cell proliferation-inducing protein 47; ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit B1; ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit b, isoform 1; PIG47; MGC24431

Gene ID

[515](#)

mRNA Refseq

[NM_001688](#)

Protein Refseq

[NP_001679](#)

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