

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	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]
Molecular Mass	55.3 kDa
AA Sequence	MLSRVLSAA ATAAPSLKNA AFLGPGVLQA TRTFHTGQPH LVPVPPLPEY GGKVRVYGLIP EEFFQFLYPK TGVTPGYVLG TGLILYALSK EIYVISAETF TALSVLGVMV YGIKKYGPFV ADFADKLNEQ KLAQLEEAQK ASIQHIQNAI

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DTEKSQQALV QKRHYLFDVQ RNNIAMALEV TYRERLYRVY KEVKNRLDYH
ISVQNMMRRK EQEHMINWVE KHVVSISTQ QEKETIAKCI ADLKLLAKKA
QAQPM

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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MIM	603270
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UniProt ID	P24539
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