

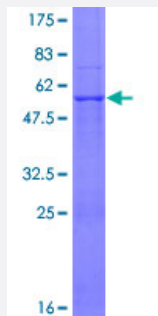
Full-Length

ATP5F1 (Human) Recombinant Protein (P01)

Catalog # H00000515-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description	Human ATP5F1 full-length ORF (NP_001679.2, 1 a.a. - 256 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MLSRVVL SAAATAAPSLKNA AFLGPGVLQATRTFHTGQPHLVPVPPLPEYGGKVRYGLIPEEFFQ FLYPKTGVTGPYVLGTGLILYALSKEIYVISAETFTALSVLGVMVYGKKGPFVADFADKLNEQKLA QLEEAKQASIQHIQNAIDTEKSQQALVQKRHYLFDVQRNNIAMALEVITYRERLYRVYKEVKNRLDYH ISVQNMMRRKEQEHEMINWVEKHVVQSISTQQEKETIAKCIADLKLLAKKAQAQPVM
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	55.3
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — ATP5F1

Entrez GeneID [515](#)

GeneBank Accession# [NM_001688.4](#)

Protein Accession# [NP_001679.2](#)

Gene Name ATP5F1

Gene Alias MGC24431, PIG47

Gene Description ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit B1

Omim ID [603270](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations ATP synthase B chain, mitochondrial|ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit b, isoform 1|H⁺-ATP synthase subunit b|OTTHUMP00000013469|cell proliferation-inducing protein 47

Pathway

- [Metabolic pathways](#)

- [Oxidative phosphorylation](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Prostatic Neoplasms](#)