

Recombinant Human ATP5A1 protein, GST-tagged

Cat. No. ATP5A1-976H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP5A1 full-length ORF (NP_001001937.1, 1 a.a. - 553 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, using 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 alpha subunit of the catalytic core. Alternatively spliced transcript variants encoding the different isoforms have been identified. Pseudogenes of this gene are located on chromosomes 9, 2, and 16. [provided by RefSeq, Mar 2012]
Molecular Mass	86.2 kDa
AA Sequence	MLSVRVAAAVVRALPRRAGLVSRNALGSSFIAARNFHASNTHLQKTGTAEMSSILEE RILGADTSVDLEETGRVLSIGDGIARVHGLRNVQAEEMVEFSSGLKGMSLNLEPDNV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GVVVFQNDKLIKEDIVKRTGAIVDVPVGEELLGRVVDALGNAIDGKGPIGSKTRRRV
GLKAPGIIPRISVREPMQTGIKAVDSLPIGRGQRELIIGDRQTGKTSIAIDTIINQKRFN
DGSDEKKKLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSATASDAAPLQYLAPY
SGCSMGEYFRDNGKHALIYDDLQKQAVAYRQMSLLRRPPGREAYPGDVFYLSHR
LLERAAKMNDAFGGGSLTALPVIETQAGDVSAYIPTNVISITDGQIFLETFLFYKGIRPA
INVGLSVSRVGSAAQTRAMKQVAGTMKLELAQYREVAFAAQFGSDLDAAATQQLLSR
GVRLTELLKQGQYSPMAIEEQVAVIYAGVRGYLDKLEPSKITKFENAFLSHVVSQHQ
ALLGTIRADGKISEQSDAKLKEIVTNFLAGFEA

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

ATP5A1 ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit 1,
cardiac muscle [Homo sapiens]

Official Symbol

ATP5A1

Synonyms

ATP5A1; ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit 1,
cardiac muscle; ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha
subunit, isoform 1, cardiac muscle , ATP synthase, H⁺ transporting, mitochondrial F1
complex, alpha subunit, isoform 2, non cardiac muscle like 2 , ATP5AL2, ATPM; ATP
synthase subunit alpha, mitochondrial; ATP5A; hATP1; OMR; ORM; ATP sythase
(F1-ATPase) alpha subunit; ATP synthase alpha chain, mitochondrial; mitochondrial

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ATP synthetase, oligomycin-resistant; ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle; ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 2, non-cardiac muscle-like 2; ATPM; MOM2; ATP5AL2;

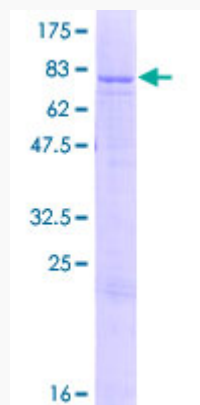
Gene ID 498

mRNA Refseq NM_001001935

Protein Refseq NP_001001935

MIM 164360

UniProt ID P25705



12.5% SDS-PAGE Stained with Coomassie Blue.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA