

Recombinant Full Length Human ATP5A1 Protein, GST-tagged

Cat. No. ATP5A1-1338HF **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	In Vitro Cell Free System
ProteinLength	553 amino acids
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	MLSVRVAAAV VRALPRRAGL VSRNALGSSF IAARNFHASN THLQKTGTAE

 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

MSSILEERIL GADTSVDLEE TGRVLSIGDG IARVHGLRNV QAEEMVEFSS
 GLKGMSLNLE PDNVGVVVFV NDKLIKEGDI VKRTGAIVDV PVGEELLGRV
 VDALGNAIDG KGPIGSKTRR RVGLKAPGII PRISVREPMQ TGIKAVDSL
 PIGRGQRELI IGDRQTGKTS IAIDTIINQK RFNDGSDEKK KLYCIYVAIG
 QKRSTVAQLV KRLTDADAMK YTIVVSATAS DAAPLQYLAP YSGCSMGEYF
 RDNGKHALII YDDLKQAVA YRQMSLLRR PPGREAYPGD VFYLHSRLLE
 RAAKMNDAFG GGSALTALPVI ETQAGDVSAY IPTNVISITD GQIFLETFL
 YKIRPAINV GLSVSRVGS AQTAMKQVA GTMKLELAQY REVAFAAQFG
 SDLAATQQL LSRGVRLTEL LKQGQYSPMA IEEQVAVIYA GVRGYLDKLE
 PSKITKFENA FLSHVVSQHQ ALLGTIRADG KISEQSDAKL KEIVTNFLAG FEA

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

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

 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

(F1-ATPase) alpha subunit; ATP synthase alpha chain, mitochondrial; mitochondrial 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