

Recombinant Full Length Human ATP5F1A Protein, C-Flag-tagged

Cat. No. ATP5F1A-396HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ATP5F1A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	55.2 kDa
AA Sequence	MLSVRVAAAVVRALPRRAGLVSRNALGSSFIAARNFHASNTHLQKTGTAEMSSILEE

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RILGADTSVDLEE TGRVLSIGDGIARVHGLRNVQAEEMVEFSSGLKGMSLNLEPDN
 VGVVVFVFGNDKLIKEGDIVKRTGAIVDV PVGEELLGRVVDALGNAIDGKGPIGSKTRR
 RVGLKAPGIIPRISVREPMQTGIKAVDSLVPIGRGQRELI IGDRQTGKTSIAIDTIINQK
 RFNDGSDEKKKLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSATAS DAAPLQY
 LAPYSGCSMGEYFRDNGKHALIYDDLKQAVAYRQMSLLRRPPGREAYPGDVFY
 LHSRLLE RAAKMNDAFGGSLTALPVIETQAGDVSAYIPTNVISITDGQIFLETIFYK
 GIRPAINVGLSVSRVGS A QTRAMKQVAGTMKLELAQYREVA AFAQFGSDLDAATQ
 QLLSRGVRLTELLKQGQYSPMAIEEQVAVIYA
 GVRGYLDKLEPSKITKFENAFLSHVVSQHQAALLGTIRADGKISEQSDAKLKEIVTNFLA
 GFEASGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Full Length	Full L.

GENE INFORMATION

Gene Name ATP5F1A ATP synthase F1 subunit alpha [Homo sapiens (human)]

Official Symbol ATP5F1A

Synonyms OMR; ORM; ATPM; MOM2; ATP5A; hATP1; ATP5A1; MC5DN4; ATP5AL2; COXPD22; HEL-S-123m

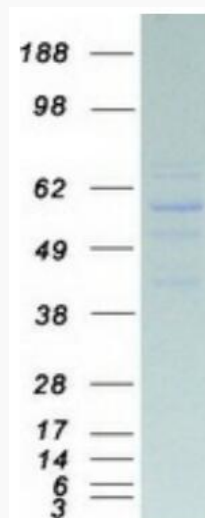
Gene ID 498

mRNA Refseq NM_004046.6

Protein Refseq NP_004037.1

MIM 164360

UniProt ID P25705



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Coomassie blue staining of purified ATP5F1A protein.

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