Recombinant Human ATP5F1A Protein, His-tagged

Cat. No. ATP5F1A-272H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP5F1A Protein (Gln44-Ile526) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gln44-Ile526
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 56 kDa Accurate Molecular Mass: 56 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	ATP5F1A ATP synthase F1 subunit alpha [Homo sapiens (human)]
Official Symbol	ATP5F1A
Synonyms	ATP5F1A; ATP synthase F1 subunit alpha; OMR; ORM; ATPM; MOM2; ATP5A; hATP1; ATP5A1; MC5DN4; ATP5AL2; COXPD22; HEL-S-123m; ATP synthase subunit alpha, mitochondrial; ATP synthase alpha chain, mitochondrial; ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle; ATP sythase (F1-ATPase) alpha subunit; epididymis secretory sperm binding protein Li 123m; mitochondrial ATP synthetase, oligomycin-resistant
Gene ID	498

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mRNA Refseq	NM_004046
Protein Refseq	NP_004037
MIM	164360
UniProt ID	P25705

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