Recombinant Human ATP5F1, His-tagged

Cat. No. ATP5F1-10019H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP5F1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-256a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol

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GENE INFORMATION

Gene Name	ATP5F1 ATP synthase, H+ transporting, mitochondrial Fo complex, subunit B1 [Homo sapiens]
Official Symbol	ATP5F1
Synonyms	ATP5F1; ATP synthase, H+ transporting, mitochondrial Fo complex, subunit B1; ATP synthase, H+ transporting, mitochondrial F0 complex, subunit b, isoform 1 , ATP synthase, H+ transporting, mitochondrial F0 complex, subunit B1; ATP synthase subunit b, mitochondrial; ATPase subunit b; H+-ATP synthase subunit b; ATP synthase B chain, mitochondrial; cell proliferation-inducing protein 47; ATP synthase, H+ transporting, mitochondrial F0 complex, subunit B1; ATP synthase, H+ transporting, mitochondrial F0 complex, subunit b, isoform 1; PIG47; MGC24431;
Gene ID	515
mRNA Refseq	NM_001688
Protein Refseq	NP_001679
MIM	603270
UniProt ID	P24539
Chromosome Location	1p13.2
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Electron Transport Chain, organism-specific biosystem; F-type ATPase, eukaryotes, organism-specific biosystem; Formation of ATP by chemiosmotic

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	coupling, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem;
Function	contributes_to ATPase activity; hydrogen ion transmembrane transporter activity; hydrogen ion transporting ATP synthase activity, rotational mechanism; protein binding; transmembrane transporter activity;

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