Recombinant Human ATP5F1, His-tagged

Cat. No. ATP5F1-5020H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ATP5F1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
Description	ATP5F1 is 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).
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	22.6 kDa (197aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSLILYALS KEIYVISAET FTALSVLGVM VYGIKKYGPF VADFADKLNE QKLAQLEEAK QASIQHIQNA IDTEKSQQAL VQKRHYLFDV QRNNIAMALE VTYRERLYRV YKEVKNRLDY HISVQNMMRR KEQEHMINWV EKHVVQSIST QQEKETIAKC IADLKLLAKK AQAQPVM

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Purity	>80% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Bradford assay)

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

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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 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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