Recombinant Human ATP5E, GST-tagged

Cat. No. ATP5E-10018H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP5E protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-51a.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 consists of three main subunits (a, b, c). This gene encodes the epsilon subunit of the catalytic core. Two pseudogenes of this gene are located on chromosomes 4 and 13. Read-through transcripts that include exons from this gene are expressed from the upstream gene SLMO2.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.

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Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	ATP5E ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit [Homo sapiens]
Official Symbol	ATP5E
Synonyms	ATP5E; ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit; ATP synthase subunit epsilon, mitochondrial; F(0)F(1)-ATPase; mitochondrial ATPase; H(+)-transporting two-sector ATPase; mitochondrial ATP synthase epsilon chain; ATPE; MC5DN3; MGC104243;
Gene ID	514
mRNA Refseq	NM_006886
Protein Refseq	NP_008817
MIM	606153
UniProt ID	P56381
Chromosome Location	20q13.3
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 transporting ATP synthase activity, rotational mechanism; hydrolase activity; proton-transporting ATPase activity, rotational mechanism; transmembrane transporter activity;

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