

Recombinant Full Length Human ATP5E Protein, GST-tagged

Cat. No. ATP5E-1392HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP5E full-length ORF (AAH01690, 1 a.a. - 51 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	51 amino acids
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.[provided by RefSeq, Mar 2011]
Molecular Mass	31.35 kDa
AA Sequence	MVAYWRQAGL SYIRYSQICA KAVRDALKTE FKANAECTSG SNVKIVKVKK E

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Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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

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