

Recombinant Human ATP5J, GST-tagged

Cat. No. ATP5J-10025H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP5J protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-108a.a.
Description	Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the F6 subunit of the Fo complex, required for F1 and Fo interactions. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. A pseudogene exists on chromosome Yp11.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	ATP5J ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit F6 [Homo sapiens]
Official Symbol	ATP5J
Synonyms	ATP5J; ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit F6; ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit F6 , ATP5, ATP5A, ATPM; ATP synthase-coupling factor 6, mitochondrial; CF6; coupling factor 6; ATPase subunit F6; proliferation-inducing protein 36; mitochondrial ATP synthase, subunit F6; mitochondrial ATPase coupling factor 6; mitochondrial ATP synthase, coupling factor 6; ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit F6; F6; ATP5; ATPM; ATP5A;
Gene ID	522
mRNA Refseq	NM_001003696
Protein Refseq	NP_001003696
MIM	603152
UniProt ID	P18859
Chromosome Location	21q21.1
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Electron Transport Chain, organism-specific biosystem; F-type ATPase, eukaryotes, organism-specific biosystem; FOXA1 transcription factor network,

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organism-specific biosystem; Formation of ATP by chemiosmotic coupling, organism-specific biosystem; Huntingtons disease, organism-specific biosystem;

Function

contributes_to ATPase activity; hydrogen ion transmembrane transporter activity; transmembrane transporter activity; transporter activity;

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