

Recombinant Human ATP5H, GST-tagged

Cat. No. ATP5H-10023H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP5H protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-137a.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 d subunit of the Fo complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. In addition, three pseudogenes are located on chromosomes 9, 12 and 15.
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 ATP5H ATP synthase, H⁺ transporting, mitochondrial Fo complex, subunit d [Homo sapiens]

Official Symbol ATP5H

Synonyms ATP5H; ATP synthase, H⁺ transporting, mitochondrial Fo complex, subunit d; ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit d; ATP synthase subunit d, mitochondrial; ATP5JD; ATPQ; My032 protein; ATPase subunit d; ATP synthase D chain, mitochondrial; ATP synthase, H⁺ transporting, mitochondrial F1F0, subunit d;

Gene ID 10476

mRNA Refseq NM_001003785

Protein Refseq NP_001003785

UniProt ID O75947

Chromosome Location 17q25

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;

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transmembrane transporter activity;

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