Recombinant Human ATP5C1, GST-tagged

Cat. No. ATP5C1-10016H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP5C1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-298a.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 gamma subunit of the catalytic core. Alternatively spliced transcript variants encoding different isoforms have been identified. This gene also has a pseudogene on chromosome 14.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM

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	GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	ATP5C1 ATP synthase, H+ transporting, mitochondrial F1 complex, gamma polypeptide 1 [Homo sapiens]
Official Symbol	ATP5C1
Synonyms	ATP5C1; ATP synthase, H+ transporting, mitochondrial F1 complex, gamma polypeptide 1; ATP5C, ATP5CL1; ATP synthase subunit gamma, mitochondrial; F-ATPase gamma subunit; ATP synthase gamma chain, mitochondrial; mitochondrial ATP synthase, gamma subunit 1; ATP5C; ATP5CL1;
Gene ID	509
mRNA Refseq	NM_001001973
Protein Refseq	NP_001001973
MIM	108729
UniProt ID	P36542
Chromosome Location	10p14
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

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	biosystem; Huntingtons disease, conserved biosystem;
Function	contributes_to ATPase activity; contributes_to ATPase activity; hydrogen ion transporting ATP synthase activity, rotational mechanism; proton-transporting ATPase activity, rotational mechanism; transmembrane transporter activity;

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