Recombinant Human ATP5G3, GST-tagged

Cat. No. ATP5G3-10022H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP5G3 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-60a.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 seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene is one of three genes that encode subunit c of the proton channel. Each of the three genes have distinct mitochondrial import sequences but encode the identical mature protein. Alternatively spliced transcript variants encoding different proteins have been identified.
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	ATP5G3 ATP synthase,H+ transporting,mitochondrial Fo complex,subunit C3 (subunit 9) [Homo sapiens]
Official Symbol	ATP5G3
Synonyms	AT5G3_HUMAN; ATP synthase H+ transporting mitochondrial Fo complex subunit C3 (subunit 9); ATP synthase lipid binding protein mitochondrial; ATP synthase lipid-binding protein; ATP synthase mitochondrial C subunit 3; ATP synthase proteolipid P3; ATP synthase subunit 9; ATP5G3; ATPase protein 9; ATPase subunit c; mitochondrial; P3; ATP5G3
Gene ID	518
mRNA Refseq	NM_001689.4
Protein Refseq	NP_001680.1
MIM	602736
UniProt ID	P48201
Chromosome Location	2q31.1
Pathway	Alzheimers disease,organism-specific biosystem;Alzheimers disease,conserved biosystem;Electron Transport Chain,organism-specific biosystem;F-type

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	ATPase,eukaryotes,organism-specific biosystem;Huntingtons disease,organism-specific biosystem;Huntingtons disease,conserved biosystem;Oxidative phosphorylation,organism-specific biosystem
Function	hydrogen ion transmembrane transporter activity;lipid binding;transporter activity

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