Recombinant Human ATP5G1, GST-tagged

Cat. No. ATP5G1-3698H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATP synthase lipid-binding protein, mitochondrial (ATP5G1)
Species	Human
Source	E.Coli/Yeast
ProteinLength	136
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 the same protein have been identified.
Form	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
Purity	>90%

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Notes	Small volumes of ATP5G1 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice.
Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Storage Buffer	PBS pH 7.4, 50% glycerol
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name	ATP5G1 ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C1 (subunit 9) [Homo sapiens]
Official Symbol	ATP5G1
Synonyms	ATP5G1; ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C1 (subunit 9); ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 1 , ATP synthase, H+ transporting, mitochondrial F0 complex, subunit C1 (subunit 9) , ATP5G; ATP synthase lipid-binding protein, mitochondrial; ATPase protein 9; ATPase subunit 9; ATPase subunit C; ATP synthase proteolipid P1; mitochondrial ATP synthase, subunit 9, isoform 1; mitochondrial ATP synthase, subunit C, isoform 1; ATP synthase, H+ transporting, mitochondrial F0 complex, subunit C1 (subunit 9); ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 1; ATP5A; ATP5G;
Gene ID	516

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mRNA Refseq	NM_001002027
Protein Refseq	NP_001002027
MIM	603192
UniProt ID	P05496
Chromosome Location	17q21.32
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-sp
Function	hydrogen ion transmembrane transporter activity; lipid binding; transporter activity;

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