

Recombinant Full Length Human ATP5G2 Protein, GST-tagged

Cat. No. ATP5G2-1453HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP5G2 full-length ORF (AAH20826, 1 a.a. - 141 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	141 amino acids
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 single representatives of the gamma, delta, and epsilon subunits. The proton channel likely has nine subunits (a, b, c, d, e, f, g, F6 and 8). There are three separate genes which encode subunit c of the proton channel and they specify precursors with different import sequences but identical mature proteins. The protein encoded by this gene is one of three precursors of subunit c. Alternatively spliced transcript variants encoding different isoforms have been identified. This gene has multiple pseudogenes. [provided by RefSeq, Jun 2010]

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Molecular Mass	41.25 kDa
AA Sequence	MFACSKFVST PSLVKSTS QL LSRPLSAVVL KRPEILTD E LSSLAVSCPL TSLVSSRSFQ TSAISRDI DT AAKFIGAGAA TVGVAGSGAG IGTVFGSLII GYARNPSLKQ QLFSYAILGF ALSEAMGLFC LMVAFLILFA M
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	ATP5G2 ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit C2 (subunit 9) [Homo sapiens]
Official Symbol	ATP5G2
Synonyms	ATP5A
Gene ID	517
mRNA Refseq	NM_005176.5
Protein Refseq	NP_005167.2
MIM	603193
UniProt ID	Q06055

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