

Recombinant Human ATP5G3 protein, GST-tagged

Cat. No. ATP5G3-983H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP5G3 full-length ORF (NP_001002258.1, 1 a.a. - 142 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq, Jun 2010]
Molecular Mass	41.1 kDa
AA Sequence	MFACAKLACTPSLIRAGSRVAYRPISASVLSRPEASRTGEGSTVFNGAQNGVSQLIQ

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REFQTSAISRDIDTAAKFIGAGAATVGVAGSGAGIGTVFGSLIIGYARNPSLKQQLFSY
AILGFALSEAMGLFCLMVAFLILFAM

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

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

ATP5G3 ATP synthase, H⁺ transporting, mitochondrial Fo complex, subunit C3
(subunit 9) [Homo sapiens]

Official Symbol

ATP5G3

Synonyms

ATP5G3; ATP synthase, H⁺ transporting, mitochondrial Fo complex, subunit C3
(subunit 9); P3

Gene ID

518

mRNA Refseq

NM_001689.4

Protein Refseq

NP_001680.1

MIM

602736

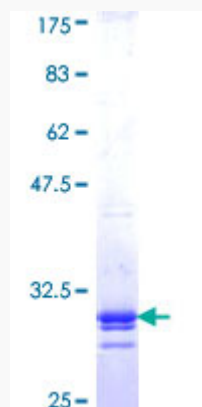
UniProt ID

P48201

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12.5% SDS-PAGE Stained with Coomassie Blue.

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