Recombinant Full Length Human ATP5G3 Protein, GST-tagged

Cat. No. ATP5G3-1455HF **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	In Vitro Cell Free System
ProteinLength	142 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 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

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AA Sequence	MFACAKLACT PSLIRAGSRV AYRPISASVL SRPEASRTGE GSTVFNGAQN GVSQLIQREF QTSAISRDID TAAKFIGAGA ATVGVAGSGA GIGTVFGSLI IGYARNPSLK QQLFSYAILG FALSEAMGLF CLMVAFLILF AM
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	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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