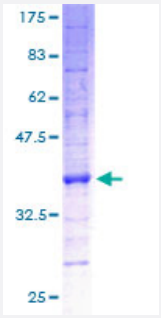
Full-Length

ATP5G1 (Human) Recombinant Protein (P01)

Catalog # H00000516-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ATP5G1 full-length ORF (AAH04963, 18 a.a. - 136 a.a.) recombinant protein with GST-tag a t N-terminal.
Sequence	TRGLIRPVSASFLSSPVNSSKQPSYSNFPLQVARREFQTSVVSRDIDTAAKFIGAGAATVGVAGS GAGIGTVFGSLIIGYARNPSLKQQLFSYAILGFALSEAMGLFCLMVAFLILFAM
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	38.83
Interspecies Antigen Sequence	Mouse (92); Rat (91)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — ATP5G1

Entrez GeneID	516
GeneBank Accession#	BC004963
Protein Accession#	AAH04963
Gene Name	ATP5G1
Gene Alias	ATP5A, ATP5G
Gene Description	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit C1 (subunit 9)
Omim ID	603192
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	ATP synthase lipid-binding protein, mitochondrial|ATP synthase proteolipid P1|ATP synthase, H+ transporting, mitochondrial F0 complex, subunit C1|ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 1|ATPase protein 9|AT

Pathway

- Metabolic pathways
- Oxidative phosphorylation