

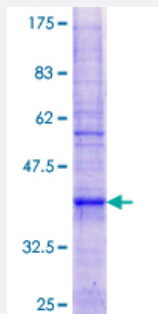
Full-Length

ATP5G3 (Human) Recombinant Protein (P01)

Catalog # H00000518-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description	Human ATP5G3 full-length ORF (NP_001002258.1, 1 a.a. - 142 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MFACAKLACTPSLIRAGSRVAYRPISASVLSRPEASRTGEGSTVFNGAQNGVSQLIQREFQTSAISR RDIDTAAKFIGAGAATVGVAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILGFALSEAMGLFCLMV AFLILFAM
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	41.1
Interspecies Antigen Sequence	Mouse (95)
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 — ATP5G3

Entrez GeneID [518](#)

GeneBank Accession# [NM_001002258.2](#)

Protein Accession# [NP_001002258.1](#)

Gene Name ATP5G3

Gene Alias MGC125738, P3

Gene Description ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit C3 (subunit 9)

Omim ID [602736](#)

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 P3|ATP synthase subunit 9|ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit C3|ATP synthase, mitochondrial, C subunit-3|ATPase protein 9|ATPase subunit C

Pathway

- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)