ATP Synthase Subunit Delta, Mitochondrial (ATP5D) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	ATP synthase subunit delta, mitochondrial (Atp5d), Recombinant Protein
Full Product Name	Recombinant Mouse ATP synthase subunit delta, mitochondrial (Atp5d)
Product Gene Name	Atp5d recombinant protein
Product Synonym Gene Name	Atp5d
Sequence	AEAAAAPAPA AGPGQMSFTF ASPTQVFFDS ANVKQVDVPT LTGAFGILAS HVPTLQVLRP GLVVVHTEDG TTTKYFVSSG SVTVNADSSV QLLAEEAVTL DMLDLGAARA NLEKAQSELS GAADEAARAE IQIRIEANEA LVKALE
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	17,600 Da
Sequence Positions	23-168, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9D3D9
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Atp5d recombinant protein	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 consists of three main subunits (a, b, c). This gene encodes the delta subunit of the catalytic core. Alternatively spliced transcript variants encoding the same isoform have been identified.
Other Notes	Small volumes of Atp5d recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Atp5d purchase	MBS1424938 is a recombinant protein targeting Atp5d. Also known as Recombinant Mouse ATP synthase subunit delta, mitochondrial (Atp5d). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Atp5d. It may not necessarily be applicable to this product.

NCBI GI #	166851828

NCBI GeneID	66043
NCBI Accession #	NP_079589.2
UniProt Primary Accession #	Q9D3D9
UniProt Related Accession #	Q9D3D9
GenBank Nucleotide #	NM_025313.2
NCBI Official Full Name	ATP synthase subunit delta, mitochondrial isoform 1
NCBI Official Synonym Full Names	ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit
NCBI Official Symbol	Atp5d
NCBI Official Synonym Symbols	C85518; AA960090; AI876556; AU020773; 0610008F14Rik; 1500000I11Rik
UniProt Protein Name	ATP synthase subunit delta, mitochondrial
UniProt Synonym Protein Names	F-ATPase delta subunit
UniProt Gene Name	Atp5d
NCBI Protein Information	ATP synthase subunit delta, mitochondrial
UniProt Comments for Atp5d	Mitochondrial membrane ATP synthase (F1F0 ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F1 - containing the extramembraneous catalytic core, and F0 - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP turnover in the catalytic domain of F1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F1 domain and of the central stalk which is part of the complex rotary element. Rotation of the central stalk against the surrounding alpha3beta3 subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.
Research Articles on Atp5d	**1.** The interaction between Mpl and Atp5d was confirmed by the yeast two-hybrid system, mammalian two-hybrid assay, pull-down experiment, and co-immunoprecipitation study in vivo and in vitro.
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