ATP Synthase Subunit Gamma, Mitochondrial (ATP5C1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	ATP synthase subunit gamma, mitochondrial (Atp5c1), Recombinant Protein
Full Product Name	Recombinant Mouse ATP synthase subunit gamma, mitochondrial (Atp5c1)
Product Gene Name	Atp5c1 recombinant protein
Product Synonym Gene Name	Atp5c1
Sequence	ATLKDITRRL KSIKNIQKIT KSMKMVAAAK YARAERELKP ARVYGTGSLA LYEKADIKAP EDKKKHLIIG VSSDRGLCGA IHSSVAKQMK NEVAALTAAG KEVMIVGVGE KIKGILYRTH SDQFLVSFKD VGRKPPTFGD ASVIALELLN SGYEFDEGSI IFNQFKSVIS YKTEEKPIFS LNTIATAETM SIYDDIDADV LQNYQEYNLA NLIYYSLKES TTSEQSARMT AMDNASKNAS DMIDKLTLTF NRTRQAVITK ELIEIISGAA ALD
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	32,886 Da
Sequence Positions	26-298, 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 Q91VR2
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Atp5c1 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 gamma subunit of the catalytic core. Alternatively spliced transcript variants encoding different isoforms have been identified. This gene also has a pseudogene on chromosome 14.
Other Notes	Small volumes of Atp5c1 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 Atp5c1 purchase	MBS1332363 is a recombinant protein targeting Atp5c1. Also known as Recombinant Mouse ATP synthase subunit gamma, mitochondrial (Atp5c1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Atp5c1. It may not necessarily be applicable to this product.

NCBI GI #	163838641
NCBI GeneID	11949
NCBI Accession #	NP_065640.2
UniProt Primary Accession #	Q91VR2
UniProt Related Accession #	Q91VR2
GenBank Nucleotide #	NM_020615.4
NCBI Official Full Name	ATP synthase subunit gamma, mitochondrial isoform a
NCBI Official Synonym Full Names	ATP synthase, H+ transporting, mitochondrial F1 complex, gamma polypeptide 1
NCBI Official Symbol	Atp5c1
NCBI Official Synonym Symbols	1700094F02Rik
UniProt Protein Name	ATP synthase subunit gamma, mitochondrial
UniProt Synonym Protein Names	F-ATPase gamma subunit
UniProt Gene Name	Atp5c1
NCBI Protein Information	ATP synthase subunit gamma, mitochondrial
UniProt Comments for Atp5c1	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 synthesis 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 the central stalk which is part of the complex rotary element. The gamma subunit protrudes into the catalytic domain formed of alpha3beta3. Rotation of the central stalk against the surrounding alpha3beta3 subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/atp-synthase-subunit-gamma-mitochondrial-atp5c1/1332363