NADH Dehydrogenase [Ubiquinone] Flavoprotein 2, Mitochondrial (NDUFV2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial (Ndufv2), Recombinant Protein
Full Product Name	Recombinant Mouse NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial (Ndufv2)
Product Gene Name	Ndufv2 recombinant protein
Product Synonym Gene Name	Ndufv2
Sequence	GAGGALFVHR DTPENNPDTP FDFTPENYKR IEAIVKNYPE GHQAAAVLPV LDLAQRQNGW LPISAMNKVA EVLQVPPMRV YEVATFYTMY NRKPVGKYHI QVCTTTPCML RDSDSILETL QRKLGIKVGE TTPDKLFTLI EVECLGACVN APMVQINDNY YEDLTPKDIE EIIDELKAGK VPKPGPRSGR FCCEPAGGLT SLTEPPKGPG FGVQAGL
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	16,736 Da
Sequence Positions	32-248, 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 Q9D6J6
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ndufv2 recombinant protein	The NADH-ubiquinone oxidoreductase complex (complex I) of the mitochondrial respiratory chain catalyzes the transfer of electrons from NADH to ubiquinone, and consists of at least 43 subunits. The complex is located in the inner mitochondrial membrane. This gene encodes the 24 kDa subunit of complex I, and is involved in electron transfer. Mutations in this gene are implicated in Parkinson s disease, bipolar disorder, schizophrenia, and have been found in one case of early onset hypertrophic cardiomyopathy and encephalopathy. A non-transcribed pseudogene of this locus is found on chromosome 19.
Other Notes	Small volumes of Ndufv2 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 Ndufv2 purchase	MBS1319610 is a recombinant protein targeting Ndufv2. Also known as Recombinant Mouse NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial (Ndufv2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ndufv2. It may not necessarily be applicable to this product.

NCBI GI #	510025446

NCBI GeneID	72900
NCBI Accession #	NP_001265344.1
UniProt Primary Accession #	Q9D6J6
UniProt Secondary Accession #	Q3U9L9; Q8BU07; Q8K2L0
UniProt Related Accession #	Q9D6J6
GenBank Nucleotide #	NM_001278415.1
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH dehydrogenase (ubiquinone) flavoprotein 2
NCBI Official Symbol	Ndufv2
NCBI Official Synonym Symbols	2900010C23Rik
UniProt Protein Name	NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial
UniProt Synonym Protein Names	NADH-ubiquinone oxidoreductase 24 kDa subunit
Protein Family	NADH dehydrogenase [ubiquinone] flavoprotein
UniProt Gene Name	Ndufv2
NCBI Protein Information	NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial
NCBI Summary for Ndufv2	This gene encodes a subunit of the NADH-ubiquinone oxidoreductase (complex I) enzyme, which is a large, multimeric protein. It is the first enzyme complex in the mitochondrial electron transport chain and catalyzes the transfer of electrons from NADH to the electron acceptor ubiquinone. The proton gradient created by electron transfer drives the conversion of ADP to ATP. This gene is a core subunit and is conserved in prokaryotes and eukaryotes. The bovine ortholog of this protein has been characterized and is reported to contain an iron-sulfur cluster, which may be involved in electron transfer. In humans mutations in this gene are implicated in Parkinson's disease, bipolar disorder, schizophrenia, and have been found in one case of early onset hypertrophic cardiomyopathy and encephalopathy. A pseudogene of this gene is located on chromosome 3. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2013]
UniProt Comments for Ndufv2	Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone ().
Research Articles on Ndufv2	**1.** The results of this study indicated that ndufv2 knockdown influences the actin cytoskeleton and tubulin stabilization in the leading process of migrating cortical neurons
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/nadh-dehydrogenase-ubiquinone-flavoprotein-2-mitochondrial-ndufv2/1319610