Nuclear Pore Complex Protein Nup50 (NUP50) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nuclear pore complex protein Nup50 (Nup50), Recombinant Protein
Full Product Name	Recombinant Mouse Nuclear pore complex protein Nup50 (Nup50)
Product Gene Name	Nup50 recombinant protein
Product Synonym Gene Name	Nup50
Sequence	MAKRVAEKEL TDRNWDEEDE VEEMGTFSVA SEEVMKNRAV KKAKRRNVGF ESDSGGAFKG FKGLVVPSGG GGFSGFGGSG GKPLEGLTNG NSTDNATPFS NVKTAAEPKA AFGSFAVNGP TTLVDKKISS PKCNNSNQPP SSGPASSTAC PGNAYHKQLA GLNCSVRDWI VKHVNTNPLC DLTPIFKDYE RYLATIEKQL ENGGGSSSES QTDRATAGME PPSLFGSTKL QQESPFSFHG NKAEDTSEKV EFTAEKKSDA AQGATSASFS FGKKIESSAL GSLSSGSLTG FSFSAGSSSL FGKDAAQSKA ASSLFSAKAS ESPAGGGSSE CRDGEEEEND EPPKVVVTEV KEEDAFYSKK CKLFYKKDNE FKEKGVGTLH LKPTATQKTQ LLVRADTNLG NILLNVLIAP NMPCTRTGKN NVLIVCVPNP PLDEKQPTLP ATMLIRVKTS EDADELHKIL LEKKDA
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	49,485 Da
Sequence Positions	1-466, 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 Q9JIH2
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Nup50 recombinant protein	The nuclear pore complex is a massive structure that extends across the nuclear envelope, forming a gateway that regulates the flow of macromolecules between the nucleus and the cytoplasm. Nucleoporins are the main components of the nuclear pore complex in eukaryotic cells. This protein is a member of the FG-repeat containing nucleoporins that functions as a soluble cofactor in importin-alpha:beta-mediated nuclear protein import. Pseudogenes of this gene are found on chromosomes 5, 6, and 14. Two transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of Nup50 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 Nup50 purchase	MBS1323221 is a recombinant protein targeting Nup50. Also known as Recombinant Mouse Nuclear pore complex protein Nup50 (Nup50). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Nup50. It may not necessarily be applicable to this product.

NCBI GI #	38016154
NCBI GeneID	18141
NCBI Accession #	NP_057923.2
UniProt Primary Accession #	Q9JIH2
UniProt Secondary Accession #	Q3TG43; Q3TN17; Q6P1F4; Q6PAL4; Q8C2Y6; Q9CU02; Q9JK85
UniProt Related Accession #	Q9JIH2
GenBank Nucleotide #	NM_016714.2
NCBI Official Full Name	nuclear pore complex protein Nup50
NCBI Official Synonym Full Names	nucleoporin 50
NCBI Official Symbol	Nup50
NCBI Official Synonym Symbols	Npap60; AI413123; 1700030K07Rik
UniProt Protein Name	Nuclear pore complex protein Nup50
UniProt Synonym Protein Names	50 kDa nucleoporin; Nuclear pore-associated protein 60 kDa-like; Nucleoporin Nup50
Protein Family	Nuclear pore complex protein
UniProt Gene Name	Nup50
UniProt Synonym Gene Names	Npap60
NCBI Protein Information	nuclear pore complex protein Nup50
UniProt Comments for Nup50	Component of the nuclear pore complex that has a direct role in nuclear protein import (PubMed:10811608). Actively displaces NLSs from importin-alpha, and facilitates disassembly of the importin-alpha:beta-cargo complex and importin recycling (PubMed:16222336). Interacts with regulatory proteins of cell cycle progression including CDKN1B (PubMed:10891500, PubMed:10811608). This interaction is required for correct intracellular transport and degradation of CDKN1B (PubMed:10811608).
Research Articles on Nup50	**1.** results suggest that nucleoporin 50 plays an essential role in the survival of primordial germ cells during embryonic development
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.
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