Nucleolar RNA Helicase 2 (DDX21) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nucleolar RNA helicase 2 (Ddx21), Recombinant Protein
Full Product Name	Recombinant Mouse Nucleolar RNA helicase 2 (Ddx21) , partial
Product Gene Name	Ddx21 recombinant protein
Product Synonym Gene Name	Ddx21
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	93,551 Da
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 Q9JIK5
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ddx21 recombinant protein	DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which is an antigen recognized by autoimmune antibodies from a patient with watermelon stomach disease. This protein unwinds double-stranded RNA, folds single-stranded RNA, and may play important roles in ribosomal RNA biogenesis, RNA editing, RNA transport, and general transcription.
Other Notes	Small volumes of Ddx21 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 Ddx21 purchase	MBS1349245 is a recombinant protein targeting Ddx21. Also known as Recombinant Mouse Nucleolar RNA helicase 2 (Ddx21) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ddx21. It may not necessarily be applicable to this product.

NCBI GI #	72384374
NCBI GeneID	56200
NCBI Accession #	NP_062426.2
UniProt Primary Accession #	Q9JIK5

UniProt Secondary Accession #	Q3TVJ3; Q9WV45
UniProt Related Accession #	Q9JIK5
GenBank Nucleotide #	NM_019553.2
NCBI Official Full Name	nucleolar RNA helicase 2
NCBI Official Synonym Full Names	DEAD (Asp-Glu-Ala-Asp) box polypeptide 21
NCBI Official Symbol	Ddx21
NCBI Official Synonym Symbols	AI255159; AL022742; D10Wsu42e; D10Ertd645e
UniProt Protein Name	Nucleolar RNA helicase 2
UniProt Synonym Protein Names	DEAD box protein 21; Gu-alpha; Nucleolar RNA helicase Gu; Nucleolar RNA helicase II; RH II/Gu
Protein Family	Nucleolar RNA helicase
UniProt Gene Name	Ddx21
NCBI Protein Information	nucleolar RNA helicase 2
UniProt Comments for Ddx21	RNA helicase that acts as a sensor of the transcriptional status of both RNA polymerase (Pol) I and II: promotes ribosomal RNA (rRNA) processing and transcription from polymerase II (Pol II). Binds various RNAs, such as rRNAs, snoRNAs, 7SK and, at lower extent, mRNAs. In the nucleolus, localizes to rDNA locus, where it directly binds rRNAs and snoRNAs, and promotes rRNA transcription, processing and modification. Required for rRNA 2'-O-methylation, possibly by promoting the recruitment of late-acting snoRNAs SNORD56 and SNORD58 with pre-ribosomal complexes. In the nucleoplasm, binds 7SK RNA and is recruited to the promoters of Pol II-transcribed genes: acts by facilitating the release of P-TEFb from inhibitory 7SK snRNP in a manner that is dependent on its helicase activity, thereby promoting transcription of its target genes. Functions as cofactor for JUN-activated transcription: required for phosphorylation of JUN at 'Ser-77'. Can unwind double-stranded RNA (helicase) and can fold or introduce a secondary structure to a single-stranded RNA (foldase). Involved in rRNA processing. May bind to specific miRNA hairpins ().
Research Articles on Ddx21	**1.** TLR4/NF-kappaB-responsive microRNAs and their potential target genes: a mouse model of skeletal muscle ischemia-reperfusion injury.
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