Probable ATP-Dependent RNA Helicase DDX56 (DDX56) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable ATP-dependent RNA helicase DDX56 (DDX56), Recombinant Protein
Full Product Name	Recombinant Human Probable ATP-dependent RNA helicase DDX56 (DDX56)
Product Gene Name	DDX56 recombinant protein
Product Synonym Gene Name	DDX56
Sequence	MEDSEALGFE HMGLDPRLLQ AVTDLGWSRP TLIQEKAIPL ALEGKDLLAR ARTGSGKTAA YAIPMLQLLL HRKATGPVVE QAVRGLVLVP TKELARQAQS MIQQLATYCA RDVRVANVSA AEDSVSQRAV LMEKPDVVVG TPSRILSHLQ QDSLKLRDSL ELLVVDEADL LFSFGFEEEL KSLLCHLPRI YQAFLMSATF NEDVQALKEL ILHNPVTLKL QESQLPGPDQ LQQFQVVCET EEDKFLLLYA LLKLSLIRGK SLLFVNTLER SYRLRLFLEQ FSIPTCVLNG ELPLRSRCHI ISQFNQGFYD CVIATDAEVL GAPVKGKRRG RGPKGDKASD PEAGVARGID FHHVSAVLNF DLPPTPEAYI HRAGRTARAN NPGIVLTFVL PTEQFHLGKI EELLSGENRG PILLPYQFRM EEIEGFRYRC RDAMRSVTKQ AIREARLKEI KEELLHSEKL KTYFEDNPRD LQLLRHDLPL HPAVVKPHLG HVPDYLVPPA LRGLVRPHKK RKKLSSSCRK AKRAKSQNPL RSFKHKGKKF RPTAKPS
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	57,275 Da
Sequence Positions	1-547, 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.
OMIM	608023
3D Structure	ModBase 3D Structure for Q9NY93
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DDX56 recombinant protein	This gene encodes a member of the DEAD box protein family. 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 protein shows ATPase activity in the presence of polynucleotides and associates with nucleoplasmic 65S preribosomal particles. This gene may be involved in ribosome synthesis, most likely during assembly of the large 60S ribosomal subunit.
Other Notes	Small volumes of DDX56 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 DDX56 purchase	MBS1280949 is a recombinant protein targeting DDX56. Also known as Recombinant Human Probable ATP-dependent RNA helicase DDX56 (DDX56). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DDX56. It may not necessarily be applicable to this product.

NCBI GI #	380692328
NCBI GeneID	54606
NCBI Accession #	NP_001244118.1
UniProt Primary Accession #	Q9NY93
UniProt Secondary Accession #	Q6IAE2; Q9H9I8; A4D2K9; C9JV95
UniProt Related Accession #	Q9NY93
GenBank Nucleotide #	NM_001257189.1
NCBI Official Full Name	probable ATP-dependent RNA helicase DDX56 isoform 2
NCBI Official Synonym Full Names	DEAD-box helicase 56
NCBI Official Symbol	DDX56
NCBI Official Synonym Symbols	DDX21; DDX26; NOH61
UniProt Protein Name	Probable ATP-dependent RNA helicase DDX56
UniProt Synonym Protein Names	ATP-dependent 61 kDa nucleolar RNA helicase; DEAD box protein 21; DEAD box protein 56
Protein Family	Probable ATP-dependent RNA helicase
UniProt Gene Name	DDX56
UniProt Synonym Gene Names	DDX21; NOH61
NCBI Protein Information	probable ATP-dependent RNA helicase DDX56
NCBI Summary for DDX56	This gene encodes a member of the DEAD box protein family. 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. The protein encoded by this gene shows ATPase activity in the presence of polynucleotides and associates with nucleoplasmic 65S preribosomal particles. This gene may be involved in ribosome synthesis, most likely during assembly of the large 60S ribosomal subunit. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2012]
UniProt Comments for DDX56	May play a role in later stages of the processing of the pre-ribosomal particles leading to mature 60S ribosomal subunits. Has intrinsic ATPase activity.
Research Articles on DDX56	**1.** West Nile virus infection results in relocalization of DDX56 from nucleoli to virus assembly sites on the endoplasmic reticululm (ER), an observation that is consistent with a role for DDX56 in WNV virion assembly.
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