RNA-Binding Protein with Serine-Rich Domain 1 (RNPS1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	RNA-binding protein with serine-rich domain 1 (Rnps1), Recombinant Protein
Full Product Name	Recombinant Rat RNA-binding protein with serine-rich domain 1 (Rnps1)
Product Gene Name	Rnps1 recombinant protein
Product Synonym Gene Name	Rnps1
Sequence	MDLSGVKKKS LLGVKENNKK SSTRAPSPTK RKDRSDEKSK DRSKDKGTTK ESSEKDRGRD KTRKRRSASS GSSSTRSRSS STSSSGSSTS TGSSSGSSSS SASSRSGSSS TSRSSSSSSS SGSPSPSRRR HDNRRRSRSK SKPPKRDEKE RKRRSPSPKP TKVHIGRLTR NVTKDHIMEI FSTYGKIKMI DMPVERMHPH LSKGYAYVEF ENPDEAEKAL KHMDGGQIDG QEITATAVLA PWPRPPPRRF SPPRRMLPPP PMWRRSPPRM RRRSRSPRRR SPVRRRSRSP GRRRHRSRSS SNSSR
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	34,238 Da
Sequence Positions	1-305, 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 Q6AYK1
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Rnps1 recombinant protein	This gene encodes a protein that is part of a post-splicing multiprotein complex involved in both mRNA nuclear export and mRNA surveillance. mRNA surveillance detects exported mRNAs with truncated open reading frames and initiates nonsense-mediated mRNA decay (NMD). When translation ends upstream from the last exon-exon junction, this triggers NMD to degrade mRNAs containing premature stop codons. This protein binds to the mRNA and remains bound after nuclear export, acting as a nucleocytoplasmic shuttling protein. This protein contains many serine residues. Two splice variants have been found for this gene; both variants encode the same protein.
Other Notes	Small volumes of Rnps1 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 Rnps1 purchase	MBS1423632 is a recombinant protein targeting Rnps1. Also known as Recombinant Rat RNA-binding protein with serine-rich domain 1 (Rnps1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Rnps1. It may not necessarily be applicable to this product.

NCBI GI #	58865358

NCBI GeneID	287113
NCBI Accession #	NP_001011890.1
UniProt Primary Accession #	Q6AYK1
UniProt Related Accession #	Q6AYK1
GenBank Nucleotide #	NM_001011890.1
NCBI Official Full Name	RNA-binding protein with serine-rich domain 1
NCBI Official Synonym Full Names	RNA binding protein with serine rich domain 1
NCBI Official Symbol	Rnps1
UniProt Protein Name	RNA-binding protein with serine-rich domain 1
Protein Family	RNA-binding protein with serine-rich domain
UniProt Gene Name	Rnps1
NCBI Protein Information	RNA-binding protein with serine-rich domain 1
UniProt Comments for Rnps1	Part of pre- and post-splicing multiprotein mRNP complexes. Auxiliary component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Component of the ASAP and PSAP complexes which bind RNA in a sequence-independent manner and are proposed to be recruited to the EJC prior to or during the splicing process and to regulate specific excision of introns in specific transcription subsets. The ASAP complex can inhibit RNA processing during in vitro splicing reactions. The ASAP complex promotes apoptosis and is disassembled after induction of apoptosis. Enhances the formation of the ATP-dependent A complex of the spliceosome. Involved in both constitutive splicing and, in association with SRP54 and TRA2B/SFRS10, in distinctive modulation of alternative splicing in a substrate-dependent manner. Involved in the splicing modulation of BCL2L1/Bcl-X (and probably other apoptotic genes); specifically inhibits formation of proapoptotic isoforms such as Bcl-X(S); the activity is different from the established EJC assembly and function. Participates in mRNA 3'-end cleavage. Involved in UPF2-dependent nonsense-mediated decay (NMD) of mRNAs containing premature stop codons. Also mediates increase of mRNA abundance and translational efficiency. Binds spliced mRNA 20-25 nt upstream of exon-exon junctions ().
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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