RNA-Binding Protein 40 (RNPC3) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	RNA-binding protein 40 (RNPC3), Recombinant Protein
Full Product Name	Recombinant Human RNA-binding protein 40 (RNPC3)
Product Gene Name	RNPC3 recombinant protein
Product Synonym Gene Name	RNPC3
Sequence	MAAPEQPLAI SRGCTSSSSL SPPRGDRTLL VRHLPAELTA EEKEDLLKYF GAQSVRVLSD KGRLKHTAFA TFPNEKAAIK ALTRLHQLKL LGHTLVVEFA KEQDRVHSPC PTSGSEKKKR SDDPVEDDKE KKELGYLTVE NGIAPNHGLT FPLNSCLKYM YPPPSSTILA NIVNALASVP KFYVQVLHLM NKMNLPTPFG PITARPPMYE DYMPLHAPLP PTSPQPPEEP PLPDEDEELS SEESEYESTD DEDRQRMNKL MELANLQPKR PKTIKQRHVR KKRKIKDMLN TPLCPSHSSL HPVLLPSDVF DQPQPVGNKR IEFHISTDMP AAFKKDLEKE QNCEEKNHDL PATEVDASNI GFGKIFPKPN LDITEEIKED SDEMPSECIS RRELEKGRIS REEMETLSVF RSYEPGEPNC RIYVKNLAKH VQEKDLKYIF GRYVDFSSET QRIMFDIRLM KEGRMKGQAF IGLPNEKAAA KALKEANGYV LFGKPMVVQF ARSARPKQDP KEGKRKC
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	58,488 Da
Sequence Positions	1-517aa; 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 Q96LT9
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RNPC3 recombinant protein	Two types of spliceosomes catalyze splicing of pre-mRNAs. The major U2-type spliceosome is found in all eukaryotes and removes U2-type introns, which represent more than 99% of pre-mRNA introns. The minor U12-type spliceosome is found in some eukaryotes and removes U12-type introns, which are rare and have distinct splice consensus signals. The U12-type spliceosome consists of several small nuclear RNAs and associated proteins. This gene encodes a 65K protein that is a component of the U12-type spliceosome. This protein contains two RNA recognition motifs (RRMs), suggesting that it may contact one of the small nuclear RNAs of the minor spliceosome.
Other Notes	Small volumes of RNPC3 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 RNPC3 purchase	MBS1477832 is a recombinant protein targeting RNPC3. Also known as Recombinant Human RNA-binding protein 40 (RNPC3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RNPC3. It may not necessarily be applicable to this product.

NCBI GI #	40538732
NCBI GeneID	55599
NCBI Accession #	NP_060089.1
UniProt Primary Accession #	Q96LT9
UniProt Secondary Accession #	Q5TZ87; Q96FK7; Q96JI8; Q9NSU7; Q9NXX2; A8K1C9; D3DT74
UniProt Related Accession #	Q96LT9
GenBank Nucleotide #	NM_017619.3
NCBI Official Full Name	RNA-binding protein 40
NCBI Official Synonym Full Names	RNA binding region (RNP1, RRM) containing 3
NCBI Official Symbol	RNPC3
NCBI Official Synonym Symbols	RNP; RBM40; SNRNP65
UniProt Protein Name	RNA-binding protein 40
UniProt Synonym Protein Names	RNA-binding motif protein 40; RNA-binding region-containing protein 3; U11/U12 small nuclear ribonucleoprotein 65 kDa protein; U11/U12 snRNP 65 kDa protein; U11/U12-65K
Protein Family	RNA-binding protein
UniProt Gene Name	RNPC3
UniProt Synonym Gene Names	KIAA1839; RBM40; RNP; U11/U12 snRNP 65 kDa protein; U11/U12-65K
NCBI Protein Information	RNA-binding protein 40
UniProt Comments for RNPC3	Participates in pre-mRNA U12-dependent splicing, performed by the minor spliceosome which removes U12-type introns. U12-type introns comprises less than 1% of all non-coding sequences. Binds to the 3'-stem-loop of m7G-capped U12 snRNA.
Research Articles on RNPC3	**1.** Exome analysis of one proband revealed missense (c.1320C>A, p.P474T) and nonsense (c.1504C>T, p.R502X) mutations in the RNPC3 gene.
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