Cytoplasmic Polyadenylation Element-Binding Protein 4 (CPEB4) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cytoplasmic polyadenylation element-binding protein 4 (Cpeb4), Recombinant Protein
Full Product Name	Recombinant Mouse Cytoplasmic polyadenylation element-binding protein 4 (Cpeb4)
Product Gene Name	Cpeb4 recombinant protein
Product Synonym Gene Name	Cpeb4
Sequence	MGDYGFGVLV QSNTGNKSAF PVRFHPHLQP PHHHQNATPN PAAFINNNTA ANGSSAGSAW LFPAPATHNI QDEILGSEKA KSQQQEQQDP LEKQQLSPSP GQEAGILPET EKAKAEENPG DSSSENSNGK EKLRIESPVL TGFDYQEATG LGTSTQPLTS SASSLTGFSN WSAAIAPSSS TIINEDASFF HQGGVPGASA NNGALLFQNF PHHVSPGFGG SFSPQIGPLS QHHPHHPHFQ HHHSQHQQQR RSPASPHPPP FTHRSAAFNQ LPHLANNLNK PPSPWSSYQS PSPTPSSSWS PGGGGYGGWG ASQGRDHRRG LNGGITPLNS ISPLKKNFAS NHIQLQKYAR PSSAFAPKSW MEDSLNRADN IFPFPERPRT FDMHSLESSL IDIMRAENDS IKGRLNYSYP GSDSSLLINA RTYGRRRGQS SLFPMEDGFL DDGRGDQPLH SGLGSPHCFT HQNGERVERY SRKVFVGGLP PDIDEDEITA SFRRFGPLIV DWPHKAESKS YFPPKGYAFL LFQDESSVQA LIDACIEEDG KLYLCVSSPT IKDKPVQIRP WNLSDSDFVM DGSQPLDPRK TIFVGGVPRP LRAVELAMIM DRLYGGVCYA GIDTDPELKY PKGAGRVAFS NQQSYIAAIS ARFVQLQHGE IDKRVEVKPY VLDDQLCDEC QGARCGGKFA PFFCANVTCL QYYCEYCWAA IHSRAGREFH KPLVKEGGDR PRHISFRWN
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	77,267 Da
Sequence Positions	1-729, 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 Q7TN98
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Cpeb4 recombinant protein	MBS1422524 is a recombinant protein targeting Cpeb4. Also known as Recombinant Mouse Cytoplasmic polyadenylation element-binding protein 4 (Cpeb4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Cpeb4 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Cpeb4. It may not necessarily be applicable to this product.

NCBI GI #	595582360
NCBI GeneID	67579
NCBI Accession #	NP_001277607.1
UniProt Primary Accession #	Q7TN98
UniProt Secondary Accession #	Q69ZD7; A6H6G0
UniProt Related Accession #	Q7TN98
GenBank Nucleotide #	NM_001290678.1
NCBI Official Full Name	cytoplasmic polyadenylation element-binding protein 4 isoform 3
NCBI Official Synonym Full Names	cytoplasmic polyadenylation element binding protein 4
NCBI Official Symbol	Cpeb4
NCBI Official Synonym Symbols	Cpeb-4; Cpe-bp4; mCPEB-4
UniProt Protein Name	Cytoplasmic polyadenylation element-binding protein 4
Protein Family	Cytoplasmic polyadenylation element-binding protein
UniProt Gene Name	Cpeb4
UniProt Synonym Gene Names	Kiaa1673; CPE-BP4; CPE-binding protein 4; mCPEB-4
NCBI Protein Information	cytoplasmic polyadenylation element-binding protein 4
UniProt Comments for Cpeb4	Sequence-specific RNA-binding protein that binds to the cytoplasmic polyadenylation element (CPE), an uridine-rich sequence element (consensus sequence 5'-UUUUUAU-3') within the mRNA 3'-UTR (PubMed:17024188). RNA binding results in a clear conformational change analogous to the Venus fly trap mechanism (). Regulates activation of unfolded protein response (UPR) in the process of adaptation to ER stress in liver, by maintaining translation of CPE-regulated mRNAs in conditions in which global protein synthesis is inhibited (PubMed:28092655). Required for cell cycle progression, specifically for cytokinesis and chromosomal segregation (). Plays a role as an oncogene promoting tumor growth and progression by positively regulating translation of t-plasminogen activator/PLAT (PubMed:22138752). Stimulates proliferation of melanocytes (). In contrast to CPEB1 and CPEB3, does not play role in synaptic plasticity, learning and memory (PubMed:24386439).
Research Articles on Cpeb4	**1.** combined transcriptional and translational Cpeb4 regulation generates a 'circadian mediator', which coordinates hepatic UPR activity with periods of high ER-protein-folding demand
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