CBP80/20-Dependent Translation Initiation Factor (CTIF) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	CBP80/20-dependent translation initiation factor (Ctif), Recombinant Protein
Full Product Name	Recombinant Mouse CBP80/20-dependent translation initiation factor (Ctif)
Product Gene Name	Ctif recombinant protein
Product Synonym Gene Name	Ctif
Sequence	MENSSAASAS SEAGSSRSQE IEELERFIDS YVLEYQVQGL LTDKTEGDGE SQRTQSHISQ WTADCREQLD GSCSFSRGRA PPQQNGNKDN SLDMLGTDIW AANTFDSFSG ATWDLQPEKL DFTQFHRKVR HTPKQPLPHI DREGCGKGKL EDGDGISLND IEKVLPTWQG YHPMPHEAEI AHTKKLFRRR RNDRRRQQRP PGGNKPQQHG DHQPGSAKHN RDHQKSYQGG SGPHPSGRPT HHGYSQNRRW HHGNMKHPPG DKGEAGSHRN AKETVTVENP KLEDGPGDTG HSGLEPPCSP DTLTPAASER PTPQLPGGPE AEIKHKDTVL PERLRERPKI TLLQSSKDRL RRRLKEKDRD EVAVETSSPQ PSKMDRLMEI LNIMRNNSSD VDAKLTSFME EAQNSTNSEE MLGEIVRTIY QKAVSDRSFA FTAAKLCDKM ALFMVEGTKF RSLLLNMLQK DFTVREELQQ QDVERWLGFI TFLCEVFGTM RSSTGEPFRV LVCPIYTCLR ELLQSQDVKE DAVLCCSMEL QSTGRLLEEQ LPEMMTELLA SARDKMLCPS ESMLTRSLLL EVIELHANSW NPLTPPITQY YNRTIQKLTA
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	70,300 Da
Sequence Positions	1-600, 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 Q6PEE2
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ctif recombinant protein	MBS1315102 is a recombinant protein targeting Ctif. Also known as Recombinant Mouse CBP80/20-dependent translation initiation factor (Ctif). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Ctif 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 Ctif. It may not necessarily be applicable to this product.

NCBI GI #	145279233
NCBI GeneID	269037

NCBI Accession #	NP_958742.2
UniProt Primary Accession #	Q6PEE2
UniProt Secondary Accession #	Q6A069
UniProt Related Accession #	Q6PEE2
GenBank Nucleotide #	NM_201354.2
NCBI Official Full Name	CBP80/20-dependent translation initiation factor
NCBI Official Synonym Full Names	CBP80/20-dependent translation initiation factor
NCBI Official Symbol	Ctif
NCBI Official Synonym Symbols	Gm672
UniProt Protein Name	CBP80/20-dependent translation initiation factor
Protein Family	CBP80/20-dependent translation initiation factor
UniProt Gene Name	Ctif
UniProt Synonym Gene Names	Gm672; Kiaa0427
NCBI Protein Information	CBP80/20-dependent translation initiation factor
UniProt Comments for Ctif	Specifically required for the pioneer round of mRNA translation mediated by the cap-binding complex (CBC), that takes place during or right after mRNA export via the nuclear pore complex (NPC). Acts via its interaction with the NCBP1/CBP80 component of the CBC complex and recruits the 40S small subunit of the ribosome via eIF3. In contrast, it is not involved in steady state translation, that takes place when the CBC complex is replaced by cytoplasmic cap-binding protein eIF4E. Also required for nonsense-mediated mRNA decay (NMD), the pioneer round of mRNA translation mediated by the cap-binding complex playing a central role in nonsense-mediated mRNA decay (NMD) ().
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