Cleavage and Polyadenylation Specificity Factor Subunit 3 (CPSF3) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cleavage and polyadenylation specificity factor subunit 3 (CPSF3), Recombinant Protein
Full Product Name	Recombinant Human Cleavage and polyadenylation specificity factor subunit 3 (CPSF3)
Product Gene Name	CPSF3 recombinant protein
Product Synonym Gene Name	CPSF3
Sequence	SAIPAEESDQ LLIRPLGAGQ EVGRSCIILE FKGRKIMLDC GIHPGLEGMD ALPYIDLIDP AEIDLLLISH FHLDHCGALP WFLQKTSFKG RTFMTHATKA IYRWLLSDYV KVSNISADDM LYTETDLEES MDKIETINFH EVKEVAGIKF WCYHAGHVLG AAMFMIEIAG VKLLYTGDFS RQEDRHLMAA EIPNIKPDIL IIESTYGTHI HEKREEREAR FCNTVHDIVN RGGRGLIPVF ALGRAQELLL ILDEYWQNHP ELHDIPIYYA SSLAKKCMAV YQTYVNAMND KIRKQININN PFVFKHISNL KSMDHFDDIG PSVVMASPGM MQSGLSRELF ESWCTDKRNG VIIAGYCVEG TLAKHIMSEP EEITTMSGQK LPLKMSVDYI SFSAHTDYQQ TSEFIRALKP PHVILVHGEQ NEMARLKAAL IREYEDNDEV HIEVHNPRNT EAVTLNFRGE KLAKVMGFLA DKKPEQGQRV SGILVKRNFN YHILSPCDLS NYTDLAMSTV KQTQAIPYTG PFNLLCYQLQ KLTGDVEELE IQEKPALKVF KNITVIQEPG MVVLEWLANP SNDMYADTVT TVILEVQSNP KIRKGAVQKV SKKLEMHVYS KRLEIMLQDI FGEDCVSVKD DSILSVTVDG KTANLNLETR TVECEEGSED DESLREMVEL AAQRLYEALT PVH
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	77,486 Da
Sequence Positions	2-684aa; Full Length of Mature 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	606029
3D Structure	ModBase 3D Structure for Q9UKF6
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CPSF3 recombinant protein	MBS1349531 is a recombinant protein targeting CPSF3. Also known as Recombinant Human Cleavage and polyadenylation specificity factor subunit 3 (CPSF3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CPSF3 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 CPSF3. It may not necessarily be applicable to this product.

NCBI GI #	7706427
NCBI GeneID	51692
NCBI Accession #	NP_057291.1
UniProt Primary Accession #	Q9UKF6
UniProt Secondary Accession #	O14769; Q53RS2; Q96F36
UniProt Related Accession #	Q9UKF6
GenBank Nucleotide #	NM_016207.3
NCBI Official Full Name	cleavage and polyadenylation specificity factor subunit 3 isoform a
NCBI Official Synonym Full Names	cleavage and polyadenylation specific factor 3
NCBI Official Symbol	CPSF3
NCBI Official Synonym Symbols	CPSF73; CPSF-73
UniProt Protein Name	Cleavage and polyadenylation specificity factor subunit 3
UniProt Synonym Protein Names	Cleavage and polyadenylation specificity factor 73 kDa subunit; CPSF 73 kDa subunit; mRNA 3'-end-processing endonuclease CPSF-73
Protein Family	Cleavage and polyadenylation specificity factor
UniProt Gene Name	CPSF3
UniProt Synonym Gene Names	CPSF73; CPSF 73 kDa subunit
NCBI Protein Information	cleavage and polyadenylation specificity factor subunit 3
NCBI Summary for CPSF3	This gene encodes a member of the metallo-beta-lactamase family. The encoded protein is a 73kDa subunit of the cleavage and polyadenylation specificity factor and functions as an endonuclease that recognizes the pre-mRNA 3'-cleavage site AAUAAA prior to polyadenylation. It also cleaves after the pre-mRNA sequence ACCCA during histone 3'-end pre-mRNA processing. [provided by RefSeq, Oct 2012]
UniProt Comments for CPSF3	Component of the cleavage and polyadenylation specificity factor (CPSF) complex that play a key role in pre-mRNA 3'-end formation, recognizing the AAUAAA signal sequence and interacting with poly(A) polymerase and other factors to bring about cleavage and poly(A) addition. Has endonuclease activity, and functions as mRNA 3'-end-processing endonuclease. Also involved in the histone 3'-end pre-mRNA processing. U7 snRNP-dependent protein that induces both the 3'-endoribonucleolytic cleavage of histone pre-mRNAs and acts as a 5' to 3' exonuclease for degrading the subsequent downstream cleavage product (DCP) of mature histone mRNAs. Cleavage occurs after the 5'-ACCCA-3' sequence in the histone pre-mRNA leaving a 3'hydroxyl group on the upstream fragment containing the stem loop (SL) and 5' phosphate on the downstream cleavage product (DCP) starting with CU nucleotides. The U7-dependent 5' to 3' exonuclease activity is processive and degrades the DCP RNA substrate even after complete removal of the U7-binding site. Binds to the downstream cleavage product (DCP) of histone pre-mRNAs and the cleaved DCP RNA substrate in a U7 snRNP dependent manner.
Research Articles on CPSF3	**1.** the molecular mechanism that recruits the CPSF73 endonuclease to histone pre-mRNAs
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