Chromatin Assembly Factor 1 Subunit B (CHAF1B) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Chromatin assembly factor 1 subunit B (CHAF1B), Recombinant Protein
Full Product Name	Recombinant Human Chromatin assembly factor 1 subunit B (CHAF1B)
Product Gene Name	CHAF1B recombinant protein
Product Synonym Gene Name	CHAF1B
Sequence	MKVITCEIAW HNKEPVYSLD FQHGTAGRIH RLASAGVDTN VRIWKVEKGP DGKAIVEFLS NLARHTKAVN VVRFSPTGEI LASGGDDAVI LLWKVNDNKE PEQIAFQDED EAQLNKENWT VVKTLRGHLE DVYDICWATD GNLMASASVD NTAIIWDVSK GQKISIFNEH KSYVQGVTWD PLGQYVATLS CDRVLRVYSI QKKRVAFNVS KMLSGIGAEG EARSYRMFHD DSMKSFFRRL SFTPDGSLLL TPAGCVESGE NVMNTTYVFS RKNLKRPIAH LPCPGKATLA VRCCPVYFEL RPVVETGVEL MSLPYRLVFA VASEDSVLLY DTQQSFPFGY VSNIHYHTLS DISWSSDGAF LAISSTDGYC SFVTFEKDEL GIPLKEKPVL NMRTPDTAKK TKSQTHRGSS PGPRPVEGTP ASRTQDPSSP GTTPPQARQA PAPTVIRDPP SITPAVKSPL PGPSEEKTLQ PSSQNTKAHP SRRVTLNTLQ AWSKTTPRRI NLTPLKTDTP PSSVPTSVIS TPSTEEIQSE TPGDAQGSPP ELKRPRLDEN KGGTESLDP
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	61,493 Da
Sequence Positions	1-559, 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.
OMIM	601245
3D Structure	ModBase 3D Structure for Q13112
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CHAF1B recombinant protein	Chromatin assembly factor I (CAF-I) is required for the assembly of histone octamers onto newly-replicated DNA. CAF-I is composed of three protein subunits, p50, p60, and p150. This protein corresponds to the p60 subunit and is required for chromatin assembly after replication. The encoded protein is differentially phosphorylated in a cell cycle-dependent manner. In addition, it is normally found in the nucleus except during mitosis, when it is released into the cytoplasm. This protein is a member of the WD-repeat HIR1 family and may also be involved in DNA repair.
Other Notes	Small volumes of CHAF1B 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 CHAF1B purchase	MBS1438270 is a recombinant protein targeting CHAF1B. Also known as Recombinant Human Chromatin assembly factor 1 subunit B (CHAF1B). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHAF1B. It may not necessarily be applicable to this product.

NCBI GI #	4885105
NCBI GeneID	8208
NCBI Accession #	NP_005432.1
UniProt Primary Accession #	Q13112
UniProt Secondary Accession #	Q99548
UniProt Related Accession #	Q13112
GenBank Nucleotide #	NM_005441.2
NCBI Official Full Name	chromatin assembly factor 1 subunit B
NCBI Official Synonym Full Names	chromatin assembly factor 1 subunit B
NCBI Official Symbol	CHAF1B
NCBI Official Synonym Symbols	CAF1; MPP7; CAF-1; CAF1A; CAF1P60; CAF-IP60; MPHOSPH7
UniProt Protein Name	Chromatin assembly factor 1 subunit B
UniProt Synonym Protein Names	Chromatin assembly factor I p60 subunit; CAF-I 60 kDa subunit; CAF-I p60; M-phase phosphoprotein 7
Protein Family	Chromatin assembly factor
UniProt Gene Name	CHAF1B
UniProt Synonym Gene Names	CAF1A; CAF1P60; MPHOSPH7; MPP7; CAF-1 subunit B; CAF-I 60 kDa subunit; CAF-I p60
NCBI Protein Information	chromatin assembly factor 1 subunit B
NCBI Summary for CHAF1B	Chromatin assembly factor I (CAF-I) is required for the assembly of histone octamers onto newly-replicated DNA. CAF-I is composed of three protein subunits, p50, p60, and p150. The protein encoded by this gene corresponds to the p60 subunit and is required for chromatin assembly after replication. The encoded protein is differentially phosphorylated in a cell cycle-dependent manner. In addition, it is normally found in the nucleus except during mitosis, when it is released into the cytoplasm. This protein is a member of the WD-repeat HIR1 family and may also be involved in DNA repair. [provided by RefSeq, Jul 2008]
UniProt Comments for CHAF1B	Complex that is thought to mediate chromatin assembly in DNA replication and DNA repair. Assembles histone octamers onto replicating DNA in vitro. CAF-1 performs the first step of the nucleosome assembly process, bringing newly synthesized histones H3 and H4 to replicating DNA; histones H2A/H2B can bind to this chromatin precursor subsequent to DNA replication to complete the histone octamer.
Research Articles on CHAF1B	**1.** All the evaluated malignant tumors showed CAF-1 p60 overexpression, confirming the emerging role of CAF-1 p60 as a new proliferation and prognostic marker for cancer.
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