Histone H2B Type 1-K (HIST1H2BK) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Histone H2B type 1-K (HIST1H2BK), Recombinant Protein
Full Product Name	Recombinant Human Histone H2B type 1-K (HIST1H2BK)
Product Gene Name	HIST1H2BK recombinant protein
Sequence	PEPAKSAPAP KKGSKKAVTK AQKKDGKKRK RSRKESYSVY VYKVLKQVHP DTGISSKAMG IMNSFVNDIF ERIAGEASRL AHYNKRSTIT SREIQTAVRL LLPGELAKHA VSEGTKAVTK YTSAK
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	13,890 Da
Sequence Positions	2-126aa; 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	615045
3D Structure	ModBase 3D Structure for O60814
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HIST1H2BK recombinant protein	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene encodes a member of the histone H2B family. This gene is found in the histone microcluster on chromosome 6p21.33.
Other Notes	Small volumes of HIST1H2BK 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 HIST1H2BK purchase	MBS1215657 is a recombinant protein targeting HIST1H2BK. Also known as Recombinant Human Histone H2B type 1-K (HIST1H2BK). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIST1H2BK. It may not necessarily be applicable to this product.

NCBI GI #	914705209
NCBI GeneID	85236

NCBI Accession #	NP_001299582.1
UniProt Primary Accession #	O60814
UniProt Secondary Accession #	Q2VPI7; A8K7P7
UniProt Related Accession #	O60814
GenBank Nucleotide #	NM_001312653.1
NCBI Official Full Name	histone H2B type 1-K
NCBI Official Synonym Full Names	histone cluster 1 H2B family member k
NCBI Official Symbol	HIST1H2BK
NCBI Official Synonym Symbols	H2BK; H2B/S; H2BFT; H2BFAiii
UniProt Protein Name	Histone H2B type 1-K
UniProt Synonym Protein Names	HIRA-interacting protein 1
Protein Family	Histone
UniProt Gene Name	HIST1H2BK
UniProt Synonym Gene Names	H2BFT; HIRIP1; H2B K
NCBI Protein Information	histone H2B type 1-K
NCBI Summary for HIST1H2BK	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene encodes a replication-dependent histone that is a member of the histone H2B family. The protein encoded is an antimicrobial protein with antibacterial and antifungal activity. Two transcripts that encode the same protein have been identified for this gene, which is found in the histone microcluster on chromosome 6p21.33. [provided by RefSeq, Aug 2015]
UniProt Comments for HIST1H2BK	Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.
Research Articles on HIST1H2BK	**1.** Histone H2B antimicrobial peptides exhibit antibacterial activity and contribute to the formation of the antimicrobial barrier of the colonic epithelium
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