Histone H2B Type 1-A (HIST1H2BA) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Histone H2B type 1-A (HIST1H2BA), Recombinant Protein
Full Product Name	Recombinant Human Histone H2B type 1-A (HIST1H2BA)
Product Gene Name	HIST1H2BA recombinant protein
Product Synonym Gene Name	HIST1H2BA
Sequence	PEVSSKGATI SKKGFKKAVV KTQKKEGKKR KRTRKESYSI YIYKVLKQVH PDTGISSKAM SIMNSFVTDI FERIASEASR LAHYSKRSTI SSREIQTAVR LLLPGELAKH AVSEGTKAVT KYTSSK
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	14,167 Da
Sequence Positions	2-127, 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	609904
3D Structure	ModBase 3D Structure for Q96A08
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HIST1H2BA recombinant protein	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a testis sperm-specific member of the histone H2B family. Transcripts from this gene contain a palindromic termination element.
Other Notes	Small volumes of HIST1H2BA 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 HIST1H2BA purchase	MBS1325506 is a recombinant protein targeting HIST1H2BA. Also known as Recombinant Human Histone H2B type 1-A (HIST1H2BA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIST1H2BA. It may not necessarily be applicable to this product.

NCBI GI #	24586679
NCBI GeneID	255626
NCBI Accession #	NP_733759.1
UniProt Primary Accession #	Q96A08
UniProt Secondary Accession #	Q6NZ98; Q6NZA0; Q6NZA1; B2R544
UniProt Related Accession #	Q96A08
GenBank Nucleotide #	NM_170610.2
NCBI Official Full Name	histone H2B type 1-A
NCBI Official Synonym Full Names	histone cluster 1 H2B family member a
NCBI Official Symbol	HIST1H2BA
NCBI Official Synonym Symbols	STBP; TH2B; H2BFU; TSH2B; hTSH2B; TSH2B.1; bA317E16.3
UniProt Protein Name	Histone H2B type 1-A
UniProt Synonym Protein Names	Histone H2B, testis
Protein Family	Histone
UniProt Gene Name	HIST1H2BA
UniProt Synonym Gene Names	; TSH2B.1; hTSH2B
NCBI Protein Information	histone H2B type 1-A
NCBI Summary for HIST1H2BA	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a testis/sperm-specific member of the histone H2B family. Transcripts from this gene contain a palindromic termination element. [provided by RefSeq, Aug 2015]
UniProt Comments for HIST1H2BA	Variant histone specifically required to direct the transformation of dissociating nucleosomes to protamine in male germ cells (). Entirely replaces classical histone H2B prior nucleosome to protamine transition and probably acts as a nucleosome dissociating factor that creates a more dynamic chromatin, facilitating the large-scale exchange of histones (). 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 (). Also found in fat cells, its function and the presence of post-translational modifications specific to such cells are still unclear (PubMed:21249133).
Research Articles on HIST1H2BA	**1.** In a process of single-strand DNA repair, PARP3 mono-ADP-ribosylates nucleosomal histone H2B.
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