Histone H3.2 (HIST2H3A) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Histone H3.2 (HIST2H3A), Recombinant Protein
Full Product Name	Recombinant Human Histone H3.2 (HIST2H3A)
Product Gene Name	HIST2H3A recombinant protein
Product Synonym Gene Name	HIST2H3A
Sequence	ARTKQTARKS TGGKAPRKQL ATKAARKSAP ATGGVKKPHR YRPGTVALRE IRRYQKSTEL LIRKLPFQRL VREIAQDFKT DLRFQSSAVM ALQEASEAYL VGLFEDTNLC AIHAKRVTIM PKDIQLARRI RGERA
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	15,388 Da
Sequence Positions	2-136, 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	142780
3D Structure	ModBase 3D Structure for Q71DI3
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HIST2H3A recombinant protein	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy.
Other Notes	Small volumes of HIST2H3A 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 HIST2H3A purchase	MBS1347912 is a recombinant protein targeting HIST2H3A. Also known as Recombinant Human Histone H3.2 (HIST2H3A). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIST2H3A. It may not necessarily be applicable to this product.

NCBI GI #	53793688
NCBI GeneID	333932
NCBI Accession #	NP_001005464.1
UniProt Primary Accession #	Q71DI3
UniProt Secondary Accession #	Q6B053; A2BDF6; A6NFS4
UniProt Related Accession #	Q71DI3
GenBank Nucleotide #	NM_001005464.2
NCBI Official Full Name	histone H3.2
NCBI Official Synonym Full Names	histone cluster 2 H3 family member a
NCBI Official Symbol	HIST2H3A
NCBI Official Synonym Symbols	H3/n; H3/o
UniProt Protein Name	Histone H3.2
UniProt Synonym Protein Names	Histone H3/m; Histone H3/o
UniProt Gene Name	HIST2H3A
UniProt Synonym Gene Names	H3F2; H3FM
NCBI Protein Information	histone H3.2
NCBI Summary for HIST2H3A	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy. [provided by RefSeq, Aug 2015]
UniProt Comments for HIST2H3A	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 HIST2H3A	**1.** Downregulated by zinc and upregulated by docosahexaenoate in a neuroblastoma cell line.
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