Histone H4, Aa1-21 (HIST4H4) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Histone H4, aa1-21 (HIST4H4), Recombinant Protein
Full Product Name	Histone H4, aa1-21, Recombinant, Human (Biotin)
Product Gene Name	HIST4H4 recombinant protein
Form/Format	Lyophilized powder
Purity/Purification	Highly Purified >90%
Preparation and Storage	Lyophilized powder may be stored at -20 degree C. Stable for 12 months after receipt at -20 degree C. Reconstitute with sterile ddH2O. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Reconsituted product is stable for 6 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	2602.07D
Chromosome Location	Chromosome: 12; NC_000012.11 (14920933..14924093, complement). Location: 12p12.3
OMIM	142750
3D Structure	ModBase 3D Structure for P62805
Product Categories/Family for HIST4H4 recombinant protein	Molecular Biology; MB-Histones
Applications Tested/Suitable for HIST4H4 recombinant protein	Suitable for use in Immunoprecipitation, Affinity Precipitation Assay. Other applications not tested.
Application Notes for HIST4H4 recombinant protein	Recommended Dilution: Optimal dilutions to be determined by the researcher.
Related Product Information for HIST4H4 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 member of the histone H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element.This gene is found in the large histone gene cluster on chromosome 6. Synthethic peptide corresponding to aaa1-21 of human histone H4 blocked at the N-terminus with an acetel froup and followed by a GGlinker and biotinylated lysine. (SGRGKGGKGLGKGGAKRHRKV-GGK-biotin).
Other Notes	Small volumes of HIST4H4 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 HIST4H4 purchase	MBS635563 is a recombinant protein targeting HIST4H4. Also known as Histone H4, aa1-21, Recombinant, Human (Biotin).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIST4H4. It may not necessarily be applicable to this product.

NCBI GI #	28173560

NCBI GeneID	121504
NCBI Accession #	NP_778224.1
UniProt Primary Accession #	P62805
UniProt Secondary Accession #	P02304; P02305; Q6DRA9; Q6FGB8; Q6NWP7; A2VCL0
UniProt Related Accession #	P62805
GenBank Nucleotide #	NM_175054.2
NCBI Official Full Name	histone H4
NCBI Official Synonym Full Names	histone cluster 4, H4
NCBI Official Symbol	HIST4H4
NCBI Official Synonym Symbols	H4/p
UniProt Protein Name	Histone H4
UniProt Gene Name	HIST1H4A
UniProt Synonym Gene Names	H4/A; H4FA
UniProt Entry Name	H4_HUMAN
NCBI Protein Information	histone H4; histone 4, H4
NCBI Summary for HIST4H4	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 member of the histone H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. [provided by RefSeq, Jul 2008]
UniProt Comments for HIST4H4	H4: 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 gene encoding H4 is intronless. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 6p22.2 Cellular Component: nucleoplasm; nuclear chromosome; protein complex; membrane; extracellular region; nucleosome; nucleus Molecular Function: protein binding; DNA binding; histone binding; protein heterodimerization activity Biological Process: chromatin silencing at rDNA; establishment and/or maintenance of chromatin architecture; regulation of gene expression, epigenetic; DNA replication-dependent nucleosome assembly; negative regulation of megakaryocyte differentiation; nucleosome assembly; DNA replication-independent nucleosome assembly at centromere; DNA replication-independent nucleosome assembly; negative regulation of gene expression, epigenetic; protein heterotetramerization; gene expression; mitotic cell cycle; DNA methylation on cytosine; telomere maintenance
Research Articles on HIST4H4	**1.** Human PIH1 domain-containing protein 1 (PIH1) interacts directly with histone H4 and recruits the Brg1-SWI/SNF complex via SNF5 to human rRNA genes.
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