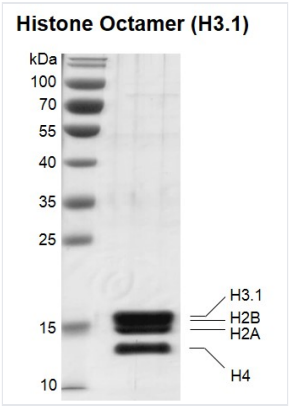
Histone Octamer (OCTAMER) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Histone Octamer, Recombinant Protein
Full Product Name	Recombinant Histone Octamer (H3.1)
Product Gene Name	Octamer recombinant protein
Host	E Coli
Form/Format	Recombinant histone octamer (H3.1) is supplied in 10mM Tris pH8.0, 2 M NaCl, 1mM EDTA, 10% glycerol, 5mM b-mercaptoethanol.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice
Molecular Weight	Molecular weight of 108kDa
Protein Species	Human
Notes	Recombinant Histone Octamer (H3.1) is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling.
Dry Ice Shipment	Extra charge fee may add to your shipping cost as dry ice is required to ship this product.
Product Categories/Family for Octamer recombinant protein	Recombinant Proteins; Histone
Related Product Information for Octamer recombinant protein	Short Description: Recombinant Histone Octamer (H3.1) is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. It consists of two molecules each of histones H2A that includes amino acids 1-130 (end)(accession number NM_003512), H2B that includes amino acids 1-126 (end)(accession number NM_003518), H3.1 that includes amino acids 1-136 (end)(accession number NM_003529), and H4 that includes amino acids 1-103 (end)(accession number NM_003548). Recombinant Histone Octamer (H3.1) was generated in E Coli and has an observed molecular weight of 108 kDa. Background: The Histone octamer is the eight protein complex found at the center of a nucleosome core particle. It consists of two copies of each of the four core histone proteins (H2A, H2B, H3 and H4). The octamer assembles when a tetramer, containing two copies of both H3 and H4, complexes with two H2A/H2B dimers. Each histone has both an N-terminal tail and a C-terminal histone-fold. Both of these key components interact with DNA in their own way through a series of weak interactions, including hydrogen bonds and salt bridges. Histone H3.1 and Histone H3.3 are the two main Histone H3 variants found in plants and animals. They are known to be important for gene regulation. Histone H3.1 and H3.3 have been shown to demonstrate unique genomic localization patterns thought to be associated with their specific functions in regulation of gene activity. Specifically, Histone H3.1 localization is found to coincide with genomic regions containing chromatin repressive marks (H3K9me3, H3K27me3 and DNA methylation), whereas Histone H3.3 primarily colocalizes with marks associated with gene activation (H3K4me3, H2BK120ub1, and RNA pol II occupancy). Deposition of the Histone H3.1 variant into the nucleosome correlates with the canonical DNA synthesis-dependent deposition pathway, whereas Histone H3.3 primarily serves as the replacement Histone H3 variant outside of S-phase, such as during gene transcription. Aberrant localization of these variants is also known to correlate with certain cancers.
Other Notes	Small volumes of Octamer 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 Octamer purchase	MBS388181 is a recombinant protein targeting Octamer. Also known as Recombinant Histone Octamer (H3.1). Host: E Coli.



SDS-Page of Octamer recombinant protein
Recombinant Histone Octamer (H3.1) protein gel. Recombinant Histone Octamer (H3.1) was run on a 12% SDS-PAGE gel and stained with Coomassie Blue. Purity: > 90%

ADDITIONAL DETAILS

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

GenBank Nucleotide #	NM_003512
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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