Histone H3 (HHT1) Saccharomyces Cerevisiae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Histone H3 (HHT1), Recombinant Protein
Full Product Name	Recombinant Saccharomyces cerevisiae Histone H3 (HHT1)
Product Gene Name	HHT1 recombinant protein
Sequence	ARTKQTARKS TGGKAPRKQL ASKAARKSAP STGGVKKPHR YKPGTVALRE IRRFQKSTEL LIRKLPFQRL VREIAQDFKT DLRFQSSAIG ALQESVEAYL VSLFEDTNLA AIHAKRVTIQ KKDIKLARRL RGERS
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	15,356 Da
Sequence Positions	2-136. 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.
3D Structure	ModBase 3D Structure for P61830
Species	Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HHT1 recombinant protein	MBS1224138 is a recombinant protein targeting HHT1. Also known as Recombinant Saccharomyces cerevisiae Histone H3 (HHT1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of HHT1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HHT1. It may not necessarily be applicable to this product.

NCBI GI #	6319482
NCBI GeneID	852295
NCBI Accession #	NP_009564.1
UniProt Primary Accession #	P61830
UniProt Secondary Accession #	P02303; P13996; Q6B1U3; Q6Q7G9; D6VQ11; E9PAG1
UniProt Related Accession #	P61830
GenBank Nucleotide #	NM_001178358.1

NCBI Official Full Name	histone H3
NCBI Official Symbol	HHT1
NCBI Official Synonym Symbols	BUR5; SIN2
UniProt Protein Name	Histone H3
Protein Family	Histone
UniProt Gene Name	HHT1
UniProt Synonym Gene Names	SIN2
NCBI Protein Information	histone H3
UniProt Comments for HHT1	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. Component of the UAF (upstream activation factor) complex which interacts with the upstream element of the RNA polymerase I promoter and forms a stable preinitiation complex. Together with SPT15/TBP, UAF seems to stimulate basal transcription to a fully activated level.Miscellaneous: Present with 213000 molecules/cell in log phase SD medium.
Research Articles on HHT1	**1.** Data indicate histone post-translational modifications (PTMs) enriched at a DNA double-strand break (DSB) site.
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