Recombinant Human H2A histone family, member Z, His-tagged

Cat. No. H2AFZ-515H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	H2AFZ, 1-128aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-128 a.a.
Description	Histone H2A.Z, also known as H2AFZ, is a member of the histone H2A family. 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). H2AFZ may be involved in the formation of constitutive heterochromatin and may be required for chromosome segregation during cell division. Also, H2AFZ is a variant Histone H2A which replaces conventional H2A in a subset of nucleosomes. Recombinant human H2AFZ protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	15.9 kDa (151aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAGGKAG KDSGKAKTKA VSRSQRAGLQ FPVGRIHRHL KSRTTSHGRV GATAAVYSAA ILEYLTAEVL ELAGNASKDL

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	KVKRITPRHL QLAIRGDEEL DSLIKATIAG GGVIPHIHKS LIGKKGQQKT V
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	H2AFZ H2A histone family, member Z [Homo sapiens]
Official Symbol	H2AFZ
Synonyms	H2AFZ; H2A histone family, member Z; H2AZ; histone H2A.Z; H2A.Z; H2AZ histone; H2A.z; H2A/z; MGC117173;
Gene ID	3015
mRNA Refseq	NM_002106
Protein Refseq	NP_002097
MIM	142763
UniProt ID	P0C0S5
Chromosome Location	4q23
Pathway	Amyloids, organism-specific biosystem; C-MYB transcription factor network,

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	organism-specific biosystem; Cell Cycle, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; Deposition of New CENPA-containing Nucleosomes at the Centromere, organism-specific biosystem; Disease, organism-specific biosystem; Gene Expression, organism-specific biosystem;
Function	DNA binding;

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