

# Recombinant human H2AFZ protein

Catalog Number: ATGP2612

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-128aa

### UniProt No.

P0C055

### NCBI Accession No.

NP\_002097

### Alternative Names

Histone H2A.Z, H2A.z, H2A/z, H2AZ

## PRODUCT SPECIFICATION

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### Molecular Weight

15.9 kDa (151aa)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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,

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fused to His-tag at N-terminus, was expressed in E. coli.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MAGGKAG KDSGKAKTKA VRSRQRAGLQ FPGVRIHRHL KSRTTSHGRV  
GATAAVYSAA ILEYLTAEVL ELAGNASKDL KVKRITPRHL QLAIKRGDEEL DSIKATIAG GGVIPHIHKS LIGKKGQQKT V

## General References

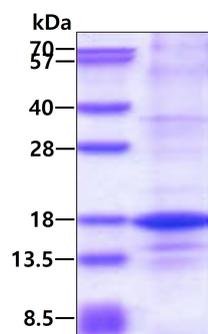
Rupp R A., et al. (2005) Cell. 123: 1178-1179.

Martin C., et al. (2005) Mol Cell Biol. 6:838-849.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.