

---

## Product Data Sheet

---

Product Name: H2AFZ Human  
 Cat. No.: GP23609  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	H2A Histone Family; Member Z; H2AZ; H2A/z; H2A.Z-1; H2A.z;H2AZ Histone; Histone H2A.Z.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAGGKAG KDSGKAKTKA VRSRQRAGLQ FPVGRIHRHL KSRTTSHGRVGATAAVYSAA ILEYLTAEVL ELAGNASKDL KVKRITPRHL QLAIKRGDEEL DSLIKATIAG GGVIPHIHKSLIGKKKGQQT V		
Formulation	H2AFZ protein solution (0.25mg/ml) containing 20mMTris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

### Introduction

HistoneH2A.Z (H2AFZ) belongs to the histone H2A family. Histones are basic nuclear proteins which 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 is implicated in the formation of constitutive heterochromatin and vital for chromosome segregation during cell division. Moreover, variant Histone H2A, which takes the place of conventional H2A in a subset of nucleosomes. Studies in mice have demonstrated that this particular histone is essential for embryonic development and show that lack of functional histone H2A leads to embryonic lethality.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

H2AFZ Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 151 amino acids (1-128 a.a) and having a molecular mass of 15.9kDa. H2AFZ is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**