

Product datasheet for PH310691

H2A.Z (H2AFZ) (NM_002106) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	H2AFZ MS Standard C13 and N15-labeled recombinant protein (NP_002097)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210691
Predicted MW:	13.6 kDa
Protein Sequence:	>RC210691 protein sequence Red =Cloning site Green =Tags(s) MAGGKAGKDSGKAKTKAVSRSQRAGLQFPVGRHRHLKSRTTSHGRVGATAAVYSAAILEYLTAEVLELAGNASKDLKVKRITPRHLQLAIRGDEELDSLKATIAGGGVIPHIHKSLIGKKGQQKTV TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002097
RefSeq Size:	951
RefSeq ORF:	384
Synonyms:	H2A.z; H2A.Z-1; H2A/z; H2AFZ; H2AZ
Locus ID:	3015
UniProt ID:	P0C0S5
Cytogenetics:	4q23



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Summary:

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). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene encodes a replication-independent member of the histone H2A family that is distinct from other members of the family. Studies in mice have shown that this particular histone is required for embryonic development and indicate that lack of functional histone H2A leads to embryonic lethality. [provided by RefSeq, Jul 2008]

Protein Families:

Druggable Genome

Protein Pathways:

Systemic lupus erythematosus

Product images:

Coomassie blue staining of purified H2AFZ protein (Cat# [TP310691]). The protein was produced from HEK293T cells transfected with H2AFZ cDNA clone (Cat# [RC210691]) using MegaTran 2.0 (Cat# [TT210002]).