

Product datasheet for PH314442

H2BC7 (NM_003522) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HIST1H2BF MS Standard C13 and N15-labeled recombinant protein (NP_003513)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214442
Predicted MW:	13.9 kDa
Protein Sequence:	>RC214442 protein sequence Red=Cloning site Green=Tags(s) MPEPAKSAPAPKKGSKKAVTKAQKKDGKKRKRSRKESYSVYVYKVLKQVHPDTGISSKAMGIMNSFVNDI FERIAGEASRLAHYNKRSTITSREIQTAVRLLLLPGELAKHAVSEGTKAVTKYTSSK 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_003513
RefSeq Size:	430
RefSeq ORF:	378
Synonyms:	H2B/g; H2BC4; H2BC6; H2BC8; H2BC10; H2BFG; HIST1H2BF
Locus ID:	8343
UniProt ID:	P62807 , B2R4S9
Cytogenetics:	6p22.2



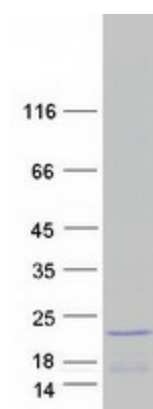
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Summary:

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H2B family. The protein has antibacterial and antifungal antimicrobial activity. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6. [provided by RefSeq, Aug 2015]

Protein Pathways:

Systemic lupus erythematosus

Product images:

Coomassie blue staining of purified HIST1H2BF protein (Cat# [TP314442]). The protein was produced from HEK293T cells transfected with HIST1H2BF cDNA clone (Cat# [RC214442]) using MegaTran 2.0 (Cat# [TT210002]).