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400-901-9800

Recombinant human Histone H3.1 protein, N-His

Catalog Number:	bs-42568P
Species:	Human
AA Seq:	2-136/136
Predicted MW:	19.2
Tags:	N-His
Endotoxin:	Not analyzed
Purity:	⩾ 90% as determined by SDS-PAGE.
Purification:	AC
Form:	Liquid
Storage:	20MMTris-HCl (pH=8.0) with 8M Urea, 150mM NaCL Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles
Background:	Modulation of the chromatin structure plays an important role in the regulation of transcription in eukaryotes. The nucleosome, made up of four core histone proteins (H2A, H2B, H3 and H4), is the primary building block of chromatin. The N-terminal tail of core histones undergoes different posttranslational modifications including acetylation, phosphorylation and methylation. These modifications occur in response to cell signal stimuli and have a direct effect on gene expression. In most species, the histone H2B is primarily acetylated at lysines 5, 12, 15 and 20. Histone H3 is primarily acetylated at lysines 9, 14, 18 and 23. Acetylation at lysine 9 appears to have a dominant role in histone deposition and chromatin assembly in some organisms. Phosphorylation at Ser10 of histone H3 is tightly correlated with chromosome condensation during both mitosis and meiosis.

VALIDATION IMAGES

The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.