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Recombinant Human/Mouse Histone H3.1 Protein

Catalog No.: RP03190 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human/Mouse	8350	NP_003520.1

Tags
No tag

Synonyms
histone cluster 1; H3a; Histone H3.1

Product Information

Source	Purification
E.coli	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
15.5 kDa	15-20 kDa

Endotoxin
Please contact us for more information.

Formulation
Lyophilized from sterile 2 mM β-Mercaptoethanol. Please contact us for any concerns or special requirements. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Reconstitution
Please contact us for reconstitution instructions.

Contact

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Background

Histone H3.1, also known as HIST1H3A, HIST1H3B, HIST1H3C, HIST1H3D, HIST1H3E, HIST1H3F, HIST1H3G, HIST1H3H, HIST1H3I, HIST1H3J, is a member of the histone H3 family which is a core component of nucleosome. It is expressed during the S phase, then expression strongly decreases as cell division slows down during the process of differentiation. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machinery which requires DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication, and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around an 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.

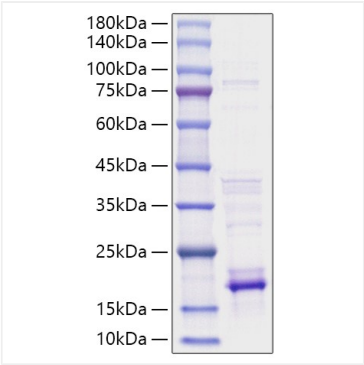
Basic Information

Description
Recombinant Human/Mouse HIST1H3A Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Ala136) of Human/Mouse HIST1H3A (Accession #NP_003520.1) fused with No tag.

Bio-Activity

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human/Mouse Histone H3.1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.