

## 37-1129: Human / Mouse Histone H3.1 / HIST1H3A / H3FA Recombinant Protein(Discontinued)

**Reactivity :** Human  
H3/A Protein, H3FA Protein, HIST1H3A Protein, HIST1H3B Protein, HIST1H3C Protein, HIST1H3D Protein, HIST1H3E Protein, HIST1H3F Protein, HIST1H3G Protein, HIST1H3H Protein, HIST1H3I Protein, HIST1H3J Protein,

**Alternative Name :** Protein, HIST1H3E Protein, HIST1H3F Protein, HIST1H3G Protein, HIST1H3H Protein, HIST1H3I Protein, HIST1H3J Protein,

### Description

#### Source : E. coli

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 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 machineries which require 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.

### Product Info

**Amount :** Human / Mouse Histone H3.1 / HIST1H3A / H3FA Recombinant Protein(Discontinued) / 100 µg

**Purification :** > 95 % as determined by SDS-PAGE

**Content :** Formulation Lyophilized from sterile 2mM beta-Mercaptoethanol  
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

**Storage condition :** Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Amino Acid :** Met1-Ala136

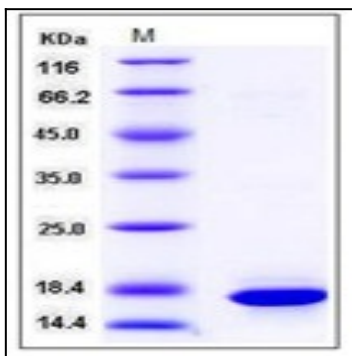


Fig 1: Human / Mouse Histone H3.1 / HIST1H3A / H3FA Recombinant Protein