
Product Data Sheet

Product Name: H3F3A Human
 Cat. No.: GP23608
 Batch No.: 1

Product Data

| | | | |
|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | RP11-396C23.1; H3.3A; H3F3; Histone H3.3; H3 Histone; Family 3A. | | |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MGSMARTKQT ARKSTGGKAP RKQLATKAAR KSAPSTGGVK KPHRYRPGTV ALREIRRYQK STELLIRKLP FQRLVREIAQ DFKTDLRFQS AAIGALQEAS EAYLVGLFED TNLCAIHAKR VTIMPKDIQL ARRIRGERA. | | |
| Formulation | H3F3A protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol. | | |

Introduction

H3F3A is a member of the histone H3 family. Histones are basic nuclear proteins which are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Histones play a significant role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated by a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Two molecules of each of the four core histones H2A, H2B, H3, and H4 form an octamer, around that 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

H3F3A Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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chain containing 159 amino acids (1-136 a.a) and having a molecular mass of 17.7kDa.H3F3A is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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