Recombinant human Histone H3.3/H3-3A protein

Catalog Number: ATGP2083

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-136aa

UniProt No.
P84243

NCBI Accession No.
NP_002098

Alternative Names
Histone H3.3, H3.3A, H3F3

PRODUCT SPECIFICATION

Molecular Weight
17.7 kDa (159aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
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. H3F3A is a replication-independent member of the histone H3 family. Recombinant human H3F3A protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

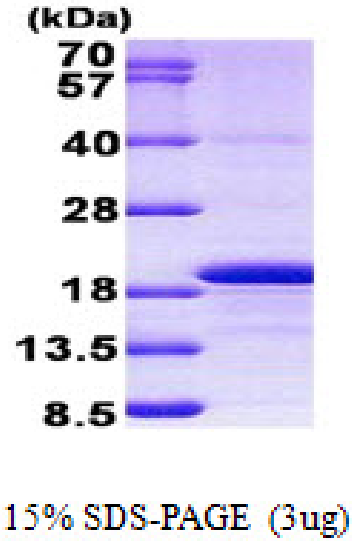
MGSSHHHHHH SSGLVPRGSH MGSMARTKQT ARKSTGGKAP RKQLATKAAR KSAPSTGGVK KPHRYRPGTV ALREIRRYQK STELLIRKLP FQRLVREIAQ DFKTDLRFQS AAIGALQEAS EAYLVGLFED TNLCAIHAKR VTIMPKDIQL ARRIRGERA

General References

Tagami H., et al. (2004) Cell. 116:51-61
Daury L N., et al. (2006) EMBO Rep. 7:66-71

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.