

Recombinant Human HIST3H3 protein, His-tagged

Cat. No. HIST3H3-299H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HIST3H3(2–136 aa) fused with N-terminal Met-Ala-Cys-6xHis-tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-236 a.a.
Description	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone 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. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.
Form	8 mM PBS pH 7.4, 110 mM NaCl, 2.2 mM KCl, 20% glycerol and 3 mM DTT.
Molecular Mass	16.3 kDa
AA Sequence	MACHHHHHHARTKQTARKSTGGKAPRKQLATKAARKSAPATGGVKKPHRYRPGTV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ALREIRRYQKSTELLIRKLP FQRLVREIAQDFKTDLRFQSSAVMALQEAAEAYLVGLF
EDTNLAAIHAKRVTIMPKDIQLARRIRGERA

Applications

Useful as a substrate for histone methyltransferase and acetyltransferase assays.
Ideal for screening small molecular inhibitors of histone modifying enzymes for drug discovery and HTS applications.

Storage

> 6 months at -80 centigrade. Avoid freeze/thaw cycles.

Concentration

0.10 mg/ml

GENE INFORMATION

Gene Name

HIST3H3 histone cluster 3, H3 [Homo sapiens]

Official Symbol

HIST3H3

Synonyms

HIST3H3; histone cluster 3, H3; H3 histone family, member T , H3FT, histone 3, H3;
histone H3.1t; H3/g; H3t; H3/t; histone 3, H3; H3 histone family, member T; H3.4;
H3FT; MGC126886; MGC126888;

Gene ID

8290

mRNA Refseq

NM_003493

Protein Refseq

NP_003484

MIM

602820

UniProt ID

Q16695

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Chromosome Location	1q42.13
Pathway	Cell Cycle, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; Meiosis, organism-specific biosystem; Meiotic Recombination, organism-specific biosystem; Meiotic Synapsis, organism-specific biosystem; Packaging Of Telomere Ends, organism-specific biosystem;
Function	DNA binding; protein binding;

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