

Recombinant Human HIST3H3 protein, His-tagged

Cat. No. HIST3H3-290H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HIST3H3(2-137 aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-137 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	Formulated in 10 mM PBS, pH 7.4, 130 mM NaCl, 10% glycerol and 1 mM DTT.
Molecular Mass	15.4 kDa
Purity	> 80% (SDS-PAGE)

 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

Applications	Suitable substrate for histone methyltransferases
Storage	Thaw on ice. Upon first thaw, briefly spin tube containing protein to recover full content of the tube. Aliquot protein into single use aliquots. Store remaining undiluted protein in aliquots at -70 centigrade. Note: Protein is very sensitive to freeze/thaw cycles.
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
Chromosome Location	1q42.13
Pathway	Cell Cycle, organism-specific biosystem; Chromosome Maintenance, organism-

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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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