

Recombinant Human NUC Protein, His tagged, Biotin Labeled, Animal free

Cat. No. NUC-0020 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Nucleosome protein (Biotin) is a Human Full Length protein, in the 2 to 136 aa range, expressed in Escherichia coli. Human recombinant nucleosomes consisting of 147 bp DNA (PCR) and 2 molecules each of histones H2A, H2B, H3 and H4. Each histone protein has an N-terminal His-tag. Each H2B has a C-terminal Cys added as a biotinylation site.
Species	Human
Source	E.coli
ProteinLength	2-36 aa
Conjugation/Label	Biotin
Description	Nucleosome is a fundamental unit of chromatin consisting of DNA wrapped around histone proteins. Alternate names include chromatin fibers and DNA-histone complexes. Each nucleosome contains an octamer of histones (two copies each of H2A H2B H3 and H4) with DNA coiled around it measuring about 11 nm in diameter. Nucleosomes are expressed in the nucleus of eukaryotic cells forming the basic structure of chromatin which further compacts to fit within the nucleus.
Form	pH: 7.5 Constituents: 20% Glycerol (glycerin, glycerine), 0.32% Tris HCl, 0.03% EDT A, 0.02% (R*,R*)-1,4-Dimercaptobutan-2,3-diol

 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

Molecular Mass	113.8 kDa
AASequence	ARTKQTARKSTGGKAPRKQLATKAARKSAPATGGVKKPHRYRPGTVALREIRRYQK STELLIRKLFPFQRLVREIAQDFKTDLRFQSSAVMALQEACEAYLVGLFEDTNLCIHA KRVTIMPKDIQLARRIRGERA
Purity	>95%, suitable for SDS-PAGE
Applications	SDS-PAGE
Storage	Appropriate short-term storage conditions: -80 centigrade Appropriate long-term storage conditions: -80 centigrade Storage information: Avoid freeze / thaw cycle, Store in the dark
Shipping	Dry Ice

GENE INFORMATION

Gene Name	H2BC21 H2B clustered histone 21 [Homo sapiens (human)]
Official Symbol	NUC
Synonyms	H2BC21; H2B clustered histone 21; H2B; H2BE; H2BQ; GL105; H2B.1; H2BFQ; H2BGL105; H2B-GL105; HIST2H2BE; histone H2B type 2-E; H2B histone family, member Q; histone 2, H2be; histone H2B-GL105; histone H2B.q; histone cluster 2 H2B family member e; histone cluster 2, H2be
Gene ID	8349
mRNA Refseq	NM_003528

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Protein Refseq	NP_003519
MIM	601831
UniProt ID	Q16778

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