Recombinant Human Mononucleosomes (H4 ΔN15), Biotinylated

Cat. No. NUC-011 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mononucleosomes assembled from recombinant human histones expressed in E. coli.
Species	Human
Source	E.coli
Description	Mononucleosomes assembled from recombinant human histones expressed in E. coli (two each of histones H2A, H2B, H3 and H4 (ΔN15). Accession numbers: H2A-P04908; H2B-O60814; H3.1-P68431; H4-P62805) with the amino acid sequence of H4 begining with lysine 16 (amino acids 1-15 are deleted), wrapped by 147 base pairs of 601 positioning sequence DNA. The nucleosome is the basic subunit of chromatin. The 601 sequence, identified by Lowary and Widom, is a 147-base pair sequence that has high affinity for histone octamers and is useful for nucleosome assembly and contains a 5' biotin-TEG group.
Form	Mononucleosomes (H4 ΔN15), Recombinant Human (27.4 µg protein weight, 50 µg DNA+protein) in 10 mM Tris HCl, pH 7.5, 25 mM NaCl, 1 mM EDTA, 2 mM DTT, 20% glycerol.
Molecular Mass	190,967.6 Da
Applications	Mononucleosomes (H4 ΔN15), Human Recombinant Biotinylated are highly purified

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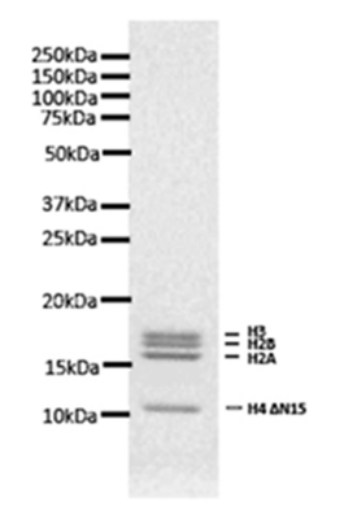
	and suitable for use as substrates in enzyme screening assays, structural studies, or effector protein binding experiments. The N-terminal deletion allows for the study of the role of the N-terminus in many aspects of chromatin biology.
Storage	Stable for six months at -80°C from date of receipt. For best results, aliquot and avoid multiple freeze/thaws.
Conjugation	Biotin
Protein Gel Data of NUC-011	 Coomassie stained PAGE gel of proteins in Mononucleosomes (H4 ΔN15), Human Recombinant Biotinylated (1 μg) demonstrates the purity of the histones in the preparation. Sizes of molecular weight markers and positions of the core histones (H2A, H2B, H3 and H4 ΔN15) are indicated.

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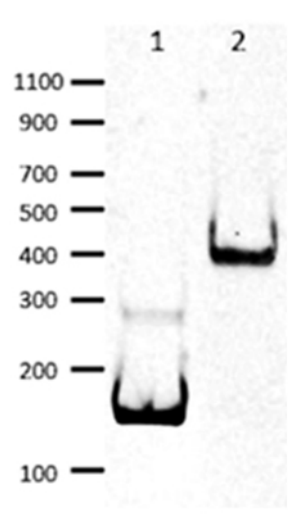
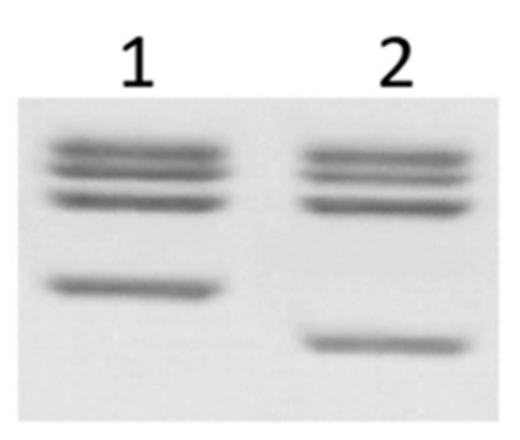
DNA Gel Data of NUC-011



ononucleosomes (H4 ΔN15), Human Recombinant Biotinylated run on a an 8% Native PAGE gel and stained with ethidium bromide to visualize DNA. Lane 1: DNA extracted from nucleosomes (100 ng). Lane 2: Intact nucleosomes (300 ng).

Detailed Protein Gel Data of NUC-011



Coomassie stained PAGE gel of proteins in WT Nucleosomes (Lane 1) resolved alongside proteins in Nucleosome (H4 ΔN15), Human Recombinant Biotinylated

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(Lane 2) . The faster migration of the H4 species observed in Lane 2 as compared to Lane 1 denotes the deletion of the amino acids from the N-terminus of the histone protein.

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