

Recombinant Human Tailless Nucleosomes, Biotinylated

Cat. No. NUC-006 **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. Accession numbers: H2A-P04908; H2B-O60814; H3.1-P68431; H4-P62805). All four of the histones have had their tails enzymatically removed after wrapping by 147 base pairs of 601 positioning sequence DNA. There is a 5' biotin-TEG group on the DNA which makes these nucleosomes ideal for use as a negative control in binding assays and pull-down experiments. The nucleosome is the basic subunit of chromatin.
Form	Purified recombinant tailless nucleosomes (50 g total mass protein+DNA, 25 g protein) in 10 mM Tris-HCl pH 7.5, 1 mM EDTA, 25 mM NaCl, 2 mM DTT, & 20% glycerol.
Applications	ailless Nucleosomes, Human Recombinant, Biotinylated are highly purified and are suitable for use as a negative control or substrate in enzyme screening assays or for nucleosome binding experiments. The absence of histone post-translational modifications makes them ideal for conducting enzyme activity and screening assays. The biotin group on the DNA makes pull-down experiments possible, allowing

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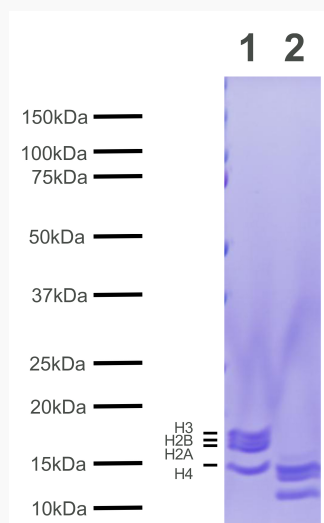
isolation of the nucleosomes after assay completion.

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-006**


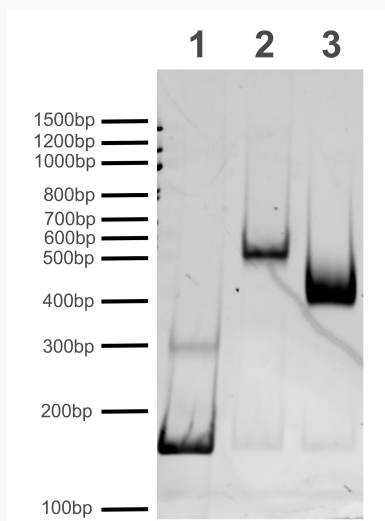
Coomassie stained SDS-PAGE to demonstrate purity of the histones in the preparation. Lane 1 shows histone proteins in the nucleosome before enzymatic removal of tails. Lane 2 shows the resulting histone proteins after tail removal. Size of molecular weight markers and positions of the intact core histones (H2A, H2B, H3, and H4) are indicated.

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**DNA Gel Data of
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Recombinant Nucleosomes resolved via native PAGE and stained with ethidium bromide to visualize DNA. Lane 1: Free DNA (100ng). Lane 2: Intact Nucleosomes (400ng). Lane 3: Tailless Nucleosomes after enzymatic removal of histone tails.

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