

Recombinant Mononucleosomes Hemi-methylated 199x601 DNA, Biotinylated

Cat. No. NUC-053 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mononucleosomes assembled from recombinant histones expressed in E. coli.
Source	E.coli
Description	Mononucleosomes assembled from recombinant histones expressed in E. coli (two each of histones H2A, H2B, H3 and H4; accession numbers: H2A-P06897; H2B-P02281; H3-Q92133; H4-P62799) wrapped by 199 base pairs of DNA containing the 601 positioning sequence DNA. The the 199 bp DNA sequence contains a 147 base-pair 601 nucleosome positioning sequence. The 601 sequence is flanked by a hemi-methylated 26 bp sequence as shown in application notes and contains a 5' biotin-TEG group.
Form	Mononucleosomes, Recombinant, 199x601 DNA (50 µg DNA + protein, 24.3 µg protein weight) in 10 mM Tris pH 7.5, 25 mM NaCl, 1 mM EDTA, 2 mM EDTA, 20% glycerol.
Molecular Mass	231,964.24 Da
Applications	DNA sequence with methylation sites in RED 5'-Biotin-TEG'-GGACCCTATACGCGGCCGCGAATTCCTGGAGAATCCCGGTCTG CAGGCCGCTCAATTGGTCGTAGACAGCTCTACGTGGCGAATTTGCGTGTCATGCG CCTGTCCCCCGCGTTTTAACCGCCAAGGGGATTACTCCCTAGTCTCCAGGCACG TGTCAGATATATACATCCTGTGGATCCGCGGTCGCGAACAGCGACC-3' 3'-CCTGGGATATGCGCCGGCGGCTTAAGGACCTCTTAGGGCCAGACGTCCGGC

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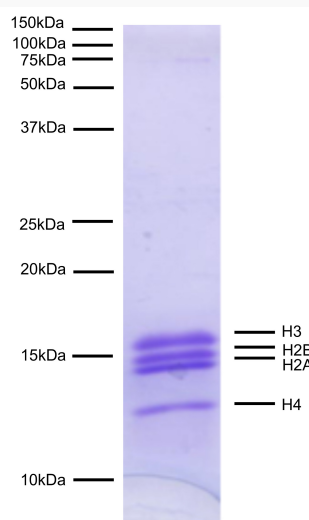
GAGTTAACCAGCATCTGTCTGAGATGCACCGCTTAAACGCACGTACGCGGACAGG
GGGCGCAAAATTGGCGGTTCCCTAATGAGGGATCAGAGGTCCGTGCACAGTC
TATATATGTAGGACACCTAGGCGGCCAGCGCTTGTCTGCTGG-5'

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


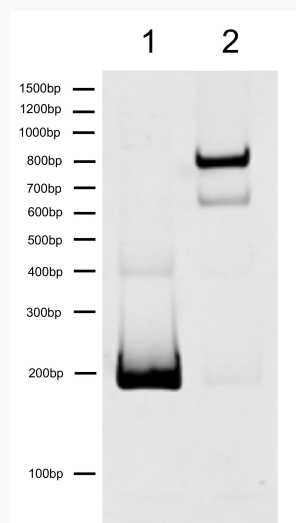
Coomassie stained PAGE gel of proteins in Mononucleosomes, Recombinant, Hemi-methylated 199x601 DNA, Biotinylated (0.75 µg) to demonstrate the purity of the histones in the preparation. Sizes of molecular weight markers and positions of the core histones (H2A, H2B, H3 and H4) are indicated.

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DNA Gel Data



Mononucleosomes, Recombinant, Hemi-methylated 199x601 DNA, Biotinylated run on a native PAGE gel and stained with ethidium bromide to visualize DNA. Lane 1: Free DNA. Lane 2: Intact nucleosomes (200 ng).

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