

Recombinant Human Mononucleosomes

Cat. No. NUC-004 **Lot. No.** (See product label)

SPECIFICATION

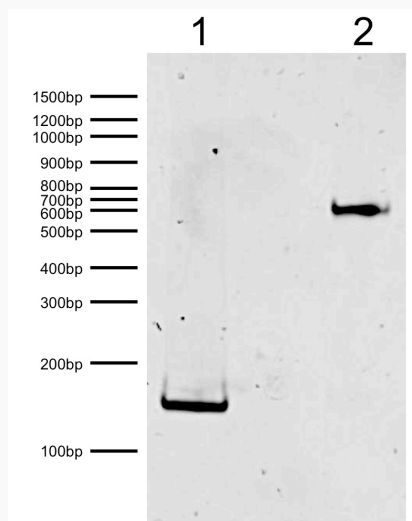
Product Overview	Mononucleosomes assembled from recombinant human histones expressed in E. coli.
Species	Human
Source	E.coli
Description	Mononucleosomes assembled from recombinant human histones expressed in E. coli (two each of histones H2A, H2B, H3 and H4. Accession numbers: H2A-P04908; H2B-O60814; H3.1-P68431; H4-P62805) wrapped by 147 base pairs of 601 positioning sequence DNA. The nucleosome is the basic subunit of chromatin.
Form	Purified recombinant mononucleosomes (100 g total mass, protein + DNA, 54.6 g protein) in 10 mM Tris-HCl pH 7.5, 1 mM EDTA, 25 mM NaCl, 2 mM DTT, & 20% glycerol.
Applications	Mononucleosomes, Human Recombinant are highly purified and are suitable for use as substrates in enzyme screening assays or for nucleosome binding experiments. The absence of post-translational histone modifications makes them ideal for conducting enzyme activity and screening assays.
Storage	Stable for six months at -20°C from date of receipt. For best results, aliquot and avoid multiple freeze/thaws.

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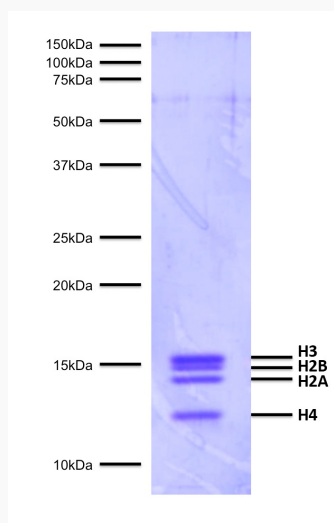
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DNA Gel Data of NUC-004



Mononucleosomes, Recombinant Human run on an agarose gel and stained with ethidium bromide to visualize DNA. Lane 1: Free DNA extracted from nucleosomes (200 ng). Lane 2: Intact nucleosomes (400 ng).

Protein Gel Data of NUC-004



Coomassie stained PAGE gel of proteins in Mononucleosomes, Human

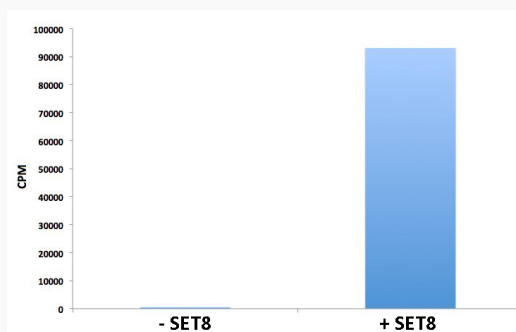
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Recombinant (0.5 μ g) to demonstrate the purity and integrity of the histones in the preparation. Sizes of molecular weight markers and positions of the core histones (H2A, H2B, H3 and H4) are indicated.

HMTase Assay Data of NUC-004



Mononucleosomes, Recombinant Human used as a substrate in a radioactive histone methyltransferase assay with (+SET8) or without (-SET8) recombinant SET8, which is an HMTase that requires nucleosomal substrates for activity.