

Recombinant Human Nucleosome, H3K79me3 dNuc, Biotinylated

Cat. No. NUC-031 **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; H2BO60814; H3.1-P68431; H4-P62805) wrapped by 147 base pairs of 601 positioning sequence DNA. Histone H3 (created by a proprietary synthetic method) contains trimethyl-lysine at position 79. 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	Nucleosome, Recombinant Human, H3K79me3 (27.3 µg protein weight, 50 µg total weight) in µl of 10 mM Tris HCl, pH 7.5, 25 mM NaCl, 1 mM EDTA, 2 mM DTT, 20% glycerol.
Molecular Mass	199,943.9 Da
Applications	Nucleosome, Recombinant Human, H3K79me3 dNucs are highly purified and are suitable for use as substrates in enzyme screening assays or for effector protein

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binding experiments. Nucleosome, Recombinant Human, H3K79me3 dNucs does not contain free DNA which could alter assayed activities.

Storage

Stable for six months at -80°C from date of receipt. For best results, aliquot and avoid multiple freeze/thaws.

Conjugation

Biotin

Western Blot Data

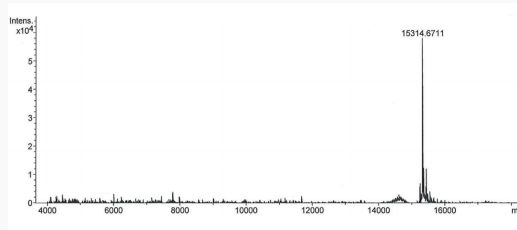

Western Analysis of Nucleosome, Recombinant Human, H3K79me3. Top Panel: Unmodified H3 (Lane 1) and H3K79me3 containing nucleosomes (Lane 2) were probed with an anti-H3K79me3 antibody and analyzed via ECL readout. Only the H3K79me3 sample produced a detectable signal. Bottom Panel: Detail from Coomassie stained gel showing unmodified nucleosomes (Lane 1) and H3K79me3 nucleosomes (Lane 2).

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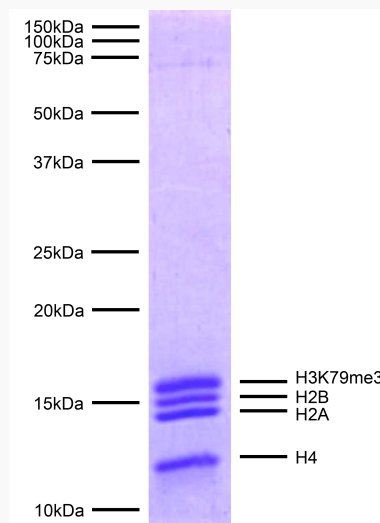
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Mass Spec Data



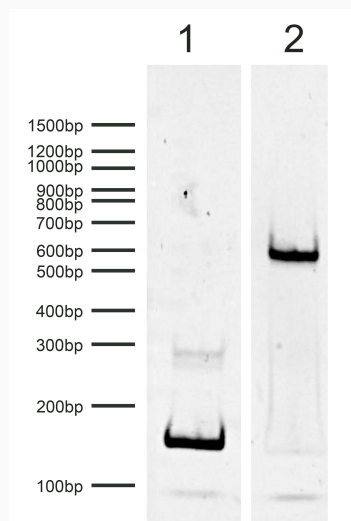
H3K79me3 protein analyzed by high resolution mass spectrometry. Expected mass = 15,314.9 Da. Determined mass = 15,314.7 Da.

Protein Gel Data



Coomassie stained PAGE gel of proteins in Nucleosome, Recombinant Human, H3K79me3 (1 µg) to demonstrate the purity of the histones in the preparation. Sizes of molecular weight markers and positions of the core histones (H2A, H2B, H3K79me3 and H4) are indicated.

DNA Gel Data



Nucleosome, Recombinant Human, H3K79me3 run on a native PAGE gel and stained with ethidium bromide to visualize DNA. Lane 1: Free DNA (100 ng). Lane 2: Intact nucleosomes (400 ng).

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