

Recombinant Human Nucleosome, H3K36me1 dNuc, Biotinylated

Cat. No. NUC-024 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. Histone H3 (created by a proprietary synthetic method) contains monomethyl-lysine at position 36. 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, H3 K36Me1 (50 g total mass, DNA+protein, 27.3 g protein weight) in 10 mM Tris HCl, pH 7.5, 25 mM NaCl, 1 mM EDTA, 2 mM DTT, 20% glycerol.
Molecular Mass	200,980 Da
Applications	Nucleosome, Recombinant Human, H3 K36me1 are highly purified and are suitable for use as substrates in enzyme screening assays or for effector protein binding

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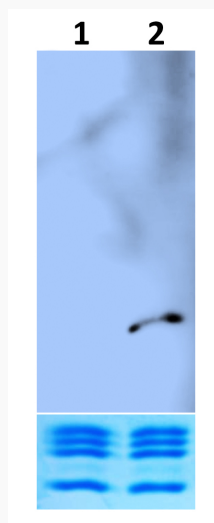
experiments.

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 of
NUC-024**


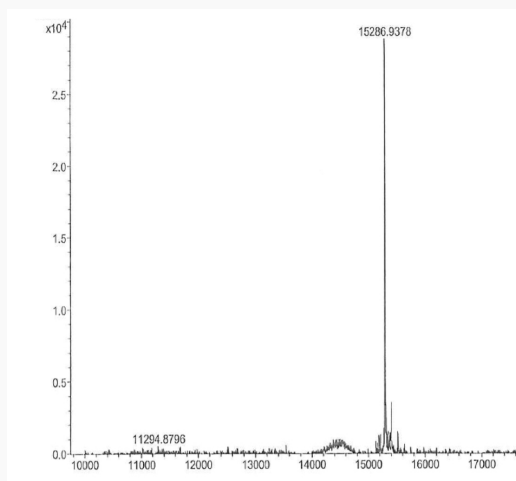
Western Analysis of Nucleosome, Recombinant Human, H3 K36me1. Top Panel: Unmodified H3 (Lane 1) and H3 K36me1 containing nucleosomes (Lane 2) were probed with an anti-H3 K36me1 antibody and analyzed via ECL readout. Only the H3 K36me1 sample produced a detectable signal. Bottom Panel: Detail from Coomassie stained gel showing wild type (Lane 1) or H3 K36me1 nucleosomes (Lane 2).

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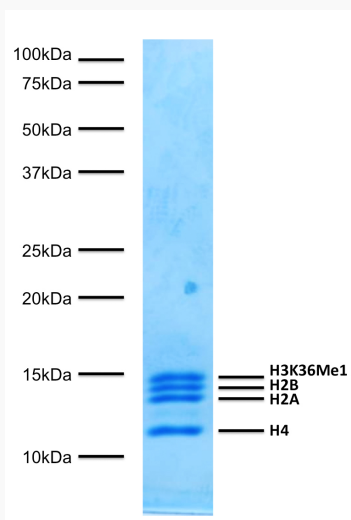
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Mass Spec Data of NUC-024



Synthetic H3 K36me1 protein analyzed by ESI-TOF mass spectrometry. Expected mass = 15,286.9 Da. Determined mass = 15,286.94 Da.

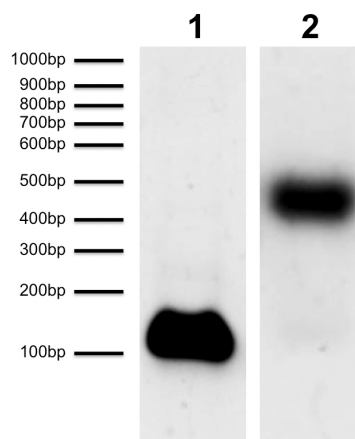
Protein Gel Data of NUC-024



Coomassie stained PAGE gel of proteins in Nucleosome, Recombinant Human, H3 K36me1 (1 μ g) to demonstrate the purity of the histones in the preparation. Sizes of molecular weight markers and positions of the core histones (H2A, H2B, H3

K36me1 and H4) are indicated.

**DNA Gel Data of
NUC-024**



Nucleosome, Recombinant Human, H3 K36me1 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).

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