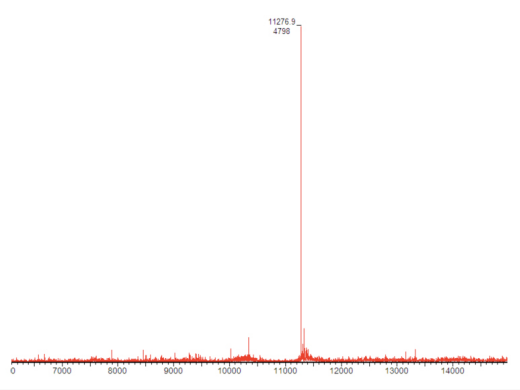
Recombinant Human Nucleosome, H4K20me3 dNuc

Cat. No. NUC-036 **Lot. No.** (See product label)

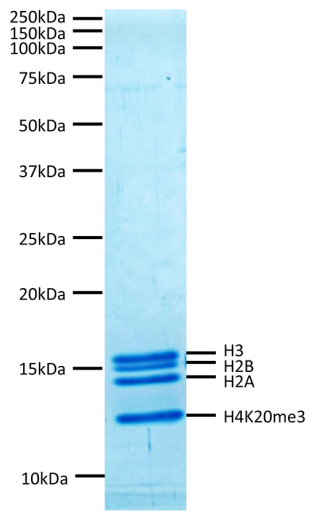
SPECIFICATION

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 H4 (created by a proprietary synthetic method) contains trimethyl-lysine at position 20. 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.
Form	Recombinant Human, H4K20me3 (2.47 µg protein weight, 50 µg DNA+protein) in 10 mM Tris HCl, pH 7.5, 25 mM NaCl, 1 mM EDTA, 2 mM DTT, 20% glycerol.
Molecular Mass	200,337 Da
Applications	Nucleosome, Recombinant Human, H4K20me3 are highly purified and are suitable for use as substrates in enzyme screening assays or for effector protein binding experiments.
Storage	Stable for six months at -80°C from date of receipt. For best results, aliquot and avoid

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	multiple freeze/thaws.
Western Blot Data	 Western Analysis of Nucleosome, Recombinant Human, H4K20me3. Top Panel: Unmodified H4 (Lane 1) and H4K20me3 containing nucleosomes (Lane 2) were probed with an anti-H4K20me3 antibody and analyzed via ECL readout. Only the H4K20me3 sample produced a detectable signal. Bottom Panel: Detail from Coomassie stained protein gel showing unmodified nucleosomes (Lane 1) and H4K20me3 nucleosomes.
Mass Spec Data	

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	Synthetic H4K20me3 protein analyzed by ESI-TOF mass spectrometry. Expected mass = 11278.1 Da. Determined mass = 11276.9 Da.
Protein Gel Data	 Coomassie stained PAGE gel of proteins in Nucleosome, Recombinant Human, H4K20me3 (2 µg) to demonstrate the purity of the histones in the preparation. Sizes of molecular weight markers and positions of the core histones (H2A, H2B, H4K20me3 and H4) are indicated.

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