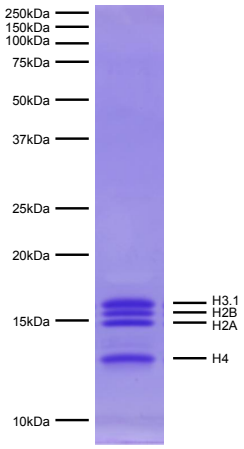
Mononucleosome, 167x601 DNA, Recombinant Human

Catalog No. 16-2110
Lot No. 19251001
Pack Size 50 µg

Product Description:

Mononucleosomes assembled from recombinant 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 in a 167bp DNA sequence containing a 147bp Lowary and Widom 601 positioning sequence. The 601 sequence is flanked by a 10 bp sequence. The nucleosome is the basic subunit of chromatin.



Protein Gel Data: Coomassie stained denaturing PAGE of proteins in Mononucleosome, 167x601, Recombinant Human (1 µg) demonstrates 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.

Formulation:

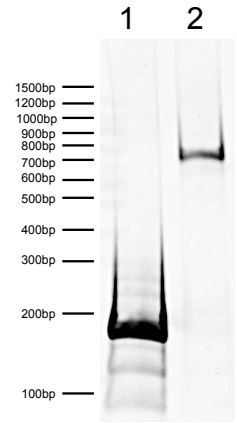
Purified recombinant mononucleosomes (50 µg total mass, 25.6 µg protein and 24.4 µg DNA) in 83.1 µl 10 mM Tris-HCl pH 7.5, 1 mM EDTA, 25 mM NaCl, 2 mM DTT and 20% glycerol. Concentration of nucleosomes is 2.83 µM. Nucleosome molecular weight = 212,405.13 Da.

Storage and Stability:

Stable for six (6) months at -80°C from date of receipt. For best results, aliquot and avoid multiple freeze/thaws.

Application Notes:

Mononucleosomes, Recombinant Human 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. **EpiCypher Mononucleosomes, Recombinant do not contain free DNA which could alter assayed activities.**



DNA Gel Data: Mononucleosome, 167x601, Recombinant Human resolved via native PAGE and stained with ethidium bromide to visualize DNA. **Lane 1:** Free DNA (100 ng). **Lane 2:** Intact nucleosomes (400 ng).

This product is for *in vitro* research use only and is not intended for use in humans or animals.