

PURIFIED AND RECOMBINANT NUCLEOSOMES

EpiCypher offers a portfolio of superior nucleosome substrates for protein binding and enzyme screening assays. This includes our flagship product – fully recombinant human mononucleosomes with biotinylated 601 sequence DNA. Our flagship product provides:

- Unparalleled purity relative to competitor products.
- Biotinylation facilitates immobilization to solid supports in plate or bead format, and allows assay readout via streptavidin-based detection.
- No contaminating free DNA or free histones, providing a physiological substrate with no interfering components.
- Full length, untagged human histones allow the protein tails to be fully available for enzymatic reactions or protein binding. Also, all epitope tags are available for interaction studies or assay readout.
- The core of a growing list of fully recombinant designer nucleosomes with homogeneous site-specific modifications.

The EpiAdvantage:

Results you can count on

Reliable results every time. EpiCypher has stringent quality control standards ensuring negligible lot-to-lot variation and reducing the risk of false positives/negatives from one screen to the next.

EpiCypher costs the same or less

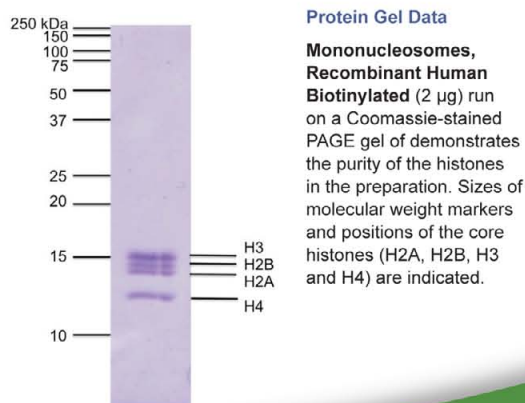
On a per data point basis, a vital metric to drug developers. The high purity of the product reduces the quantity of material required.

Significant reduction of false positives and false negatives

Superior purity of (>98%) affords a focus on optimizing libraries and reaching successful hits on a more consistent basis.

Physiologically relevant substrates

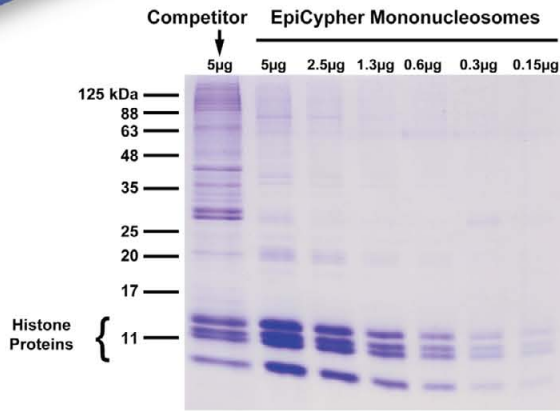
EpiCypher offers human recombinant nucleosomes, the most appropriate substrate for drug development research.



Available in Canada from... **MJS BioLynx INC.**

1-888-593-5969 • www.biolynx.ca • tech@biolynx.ca





HeLa Nucleosome Protein Gel Data

Coomassie-stained PAGE gel containing protein extracted from 5 µg of our Competitor's nucleosomes run alongside protein from EpiCypher HeLa Mononucleosomes in serial dilution. Competitor's nucleosomes contain mostly contaminating non-histone chromatin proteins. In EpiCypher's nucleosomes the histones are the predominant species. It is clear that there are a tremendous amount of sources of potential interference in the competitor's nucleosomes. Additionally, the competitor calls 5 µg appears to fall between to 0.6 and 1.3 µg of EpiCypher nucleosomes, based on relative staining of the histones.

Product Information

Histone Octamer, Recombinant Human

16-0001

Human histone octamers (two each of histones H2A, H2B, H3 and H4) made from recombinant histones expressed in *E. coli*. The histone octamer is the protein component of the nucleosome.

HeLa Mononucleosome, Purified

16-0002

Human mononucleosomes purified from HeLa cells consisting of the histone octamer wrapped by 147 base pairs of DNA.

HeLa Polynucleosomes, Purified

16-0003

Human polynucleosomes purified from HeLa cells, consisting of the histone octamer (average of 2 – 5) on each DNA fragment.

Chicken Oligonucleosomes

16-0004

Oligonucleosomes purified from chicken erythrocytes. Chicken Oligonucleosomes are predominantly hexamers, septamers and octamers, and include linker histones (e.g. H1).

Mononucleosomes, Human Recombinant Biotinylated

16-0006

Mononucleosomes assembled from recombinant human histones expressed in *E. coli*. A 5' biotin-TEG group on the DNA makes them ideal for use in nucleosome binding assays and pull-down experiments.

Nucleosome Assembly 601 DNA

18-0005

Nucleosome Assembly 601 DNA is a 147 base-pair double-stranded DNA fragment using the SELEX method. The 601 sequence DNA has high affinity for histone octamers and is useful for *in vitro* nucleosome assembly. There is a biotin group on the 5' end of the fragment, which makes it ideal for use in nucleosome binding assays and pull-down experiments.

For more information visit epicypher.com/nucleosomes

Pioneering the Science of Epigenetics™

www.EpiCypher.com

A pioneer in the field of epigenetics and chromatin biology, EpiCypher is a bioscience company developing transformative technologies and delivering superior products to researchers world-wide. Our technologies and products are making studies possible that were not imaginable just a few years ago.

Copyright © EpiCypher 2015

MJS
BioLynx
INC.

1-888-593-5969 • www.biolynx.ca • tech@biolynx.ca