

Nucleosome K-AcylStat Panel

Cat. No. NUC-067 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A 96-well plate containing 23 unique mononucleosomes assembled from recombinant human histones expressed in E. coli.
Source	E.coli
Description	A 96-well plate containing 23 unique 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/H3.2-Q71DI3, H4-P62805). Single and combinatorial histone post-translational modifications (PTMs) are created using a proprietary synthetic method. The nucleosomes are wrapped by 147 base pairs DNA containing a central 601-positioning sequence (Lowary and Widom 1998 J Mol Biol. (1):19-42) with a 5' biotin-TEG group.
Form	The K-AcylStat panel includes an unmodified nucleosome control and 22 designer nucleosomes (dNucs: single and combinatorial PTMs), either acetylated (ac), butyrylated (bu), or crotonylated (cr) at the indicated lysine sites.
Applications	The access to epigenetic diversity in a physiological nucleosome context enables broad end-user applications, including nucleosome binding studies (e.g. chromatin reader binding preferences, see application data below for example using BRD4 BD-1), enzyme screening assays (e.g. identification of preferred substrates), and antibody specificity testing (e.g. for applications that require antibody specificity in a nucleosome, rather than histone peptide context). The biotin group on the DNA facilitates pull-down experiments. Mononucleosomes do not contain free DNA which

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage

K-AcylStat

Nucleosome Panel

Application Data

