

# CUTANA™ DNA Purification Kit

**Catalog No.** 14-0050  
**Lot No.** 20226001-53  
**Pack Size** 50 samples



## EpiCypher®

### Product Description:

Cleavage Under Targets & Release Using Nuclease (CUT&RUN) utilizes an immunotethering approach to specifically release genomic fragments of interest into solution, enabling next-generation sequencing and genomic mapping with unprecedented sensitivity. High yield purification and concentration of partitioned chromatin is an essential step; one that requires a workflow specifically compatible with low starting material. Utilizing tapered cleanup columns designed for low elution volumes (as low as 6  $\mu$ L), this kit produces purified, concentrated DNA ready for library preparation and next-generation sequencing (**Figure 1**). The user-friendly workflow can be completed in just 30 minutes. The columns recover > 50 bp DNA fragments, making the DNA Purification Kit ideal for a variety of CUT&RUN targets, including histone PTMs and transcription factors.

### Kit Contents:

50 DNA Cleanup Columns + Collection Tubes  
DNA Binding Buffer  
DNA Wash Buffer - *Add 20 mL  $\geq$  95% EtOH prior to use*  
DNA Elution Buffer

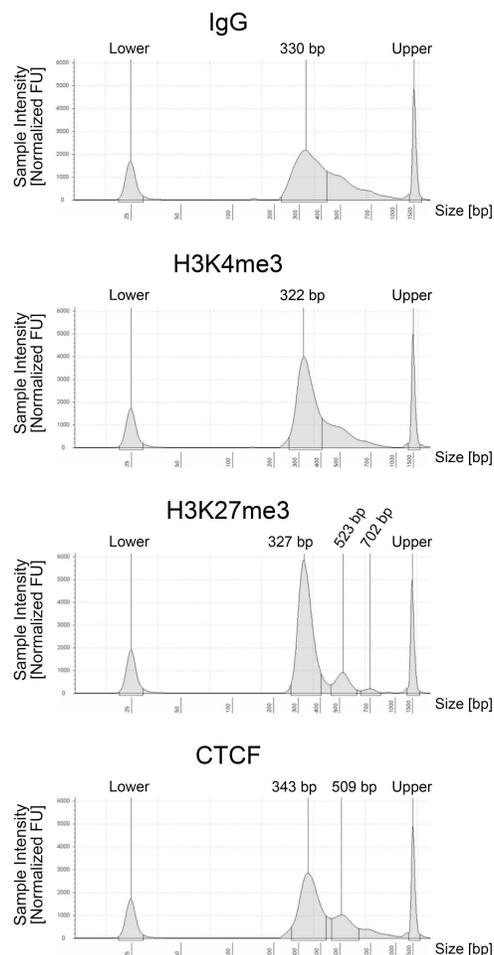
### Storage and Stability:

Store at room temperature. Stable for 6 months from date of shipment.

### Instructions for use:

See kit manual for complete instructions.

### References:



**Figure 1: CUT&RUN DNA Fragment Size Distribution Analysis.** CUT&RUN was performed using the CUTANA ChIC/CUT&RUN Kit starting with 500,000 K562 cells. CUT&RUN DNA isolated from IgG negative control (EpiCypher Catalog No. 13-0042), H3K4me3 (EpiCypher Catalog No. 13-0041), H3K27me3 (EpiCypher Catalog No. 13-0030) and CTCF (EMD Millipore Catalog No. 07-729) antibodies were used to prepare paired-end Illumina sequencing libraries. Library DNA was analyzed by Agilent TapeStation®. This analysis confirmed that mononucleosomes were predominantly enriched in CUT&RUN (~300 bp peak represents 150 bp nucleosomes + sequencing adapters).

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