



DISCOVERY®  
PEPTIDES

## Histone Peptides from Cambridge Research Biochemicals

Histones are the primary protein components of chromatin, the complex of DNA and protein found in eukaryotic cells.



“

Histone modifications are classical epigenetic mechanisms and their ability to silence or activate genes makes them an important focus of medical research. Alterations in the patterns of histone modifications are extensively linked to cancer and the progression of autoimmune and inflammatory diseases.

”



Five major families of histones exist, H1/H5, H2A, H2B, H3, and H4. Histones H2A, H2B, H3 and H4 are the core histones, while histones H1/H5 are linker histones, with the core histones acting as spools around which DNA winds.

Each of the largely globular histone proteins possesses a characteristic tail which is densely populated with lysine and arginine residues, which are subject to extensive post-translational modifications that cooperate to govern the chromatin state.

At least eight distinct types of modifications are known, with enzymes existing for acetylation, methylation, demethylation, phosphorylation, ubiquitination, sumoylation, ADP-ribosylation, deimination, and proline isomerisation.

Kouzarides (2007) Chromatin modifications and their function. Cell 128(4) 693

Alhamwe et al (2018) Histone modifications and their role in epigenetics of atopy and allergic diseases. Allergy Asthma Clin. Immunol. 14 39

## Histone H2 Peptides

**Histone H2A (1-20)**  
**crb1000608**  
SGRGKQGGKARAKAKTRSSR-acid  
**0.5mg £85 | 1mg £110**

**Histone H2A (78-86)**  
**crb1001395**  
RIIPRHLQL-acid  
**0.5mg £85 | 1mg £110**

**Histone H2AB1 (22-30) Light**  
**crb1001329**  
AGLQFPVGR-acid  
**0.5mg £85 | 1mg £110**

## Histone H3 Peptides

**Histone H3 (1-22)**  
**crb1000267**  
ARTKQTARKSTGGKAPRKQLAT-acid  
**0.5mg £85 | 1mg £110**

**Histone H3 (1-21) K4Ac**  
**crb1000424**  
ART-[K(Ac)]-QTARKSTGGKAPRKQLA-acid  
**0.5mg £170 | 1mg £220**

**Histone H3 (1-21) K4Me<sub>2</sub>**  
**crb1001424**  
ART-[K(Me<sub>2</sub>)]-QTARKSTGGKAPRKQLA-acid  
**0.5mg £170 | 1mg £220**

**Histone H3 (1-21) K9Me<sub>2</sub>**  
**crb1001370**  
ARTKQTAR-[K(Me<sub>2</sub>)]-STGGKAPRKQLA-acid  
**0.5mg £170 | 1mg £220**

**Histone H3 (32-47)**  
**crb1000525**  
ATGGVKKPHRYRPGTV-acid  
**0.5mg £85 | 1mg £110**

**Histone H3.2 (1-44)**  
**crb1000587**  
ARTKQTARKSTGGKAPRKQLATKAARKSAP  
ATGGVKKPHRYRPG-acid  
**0.5mg £170 | 1mg £220**

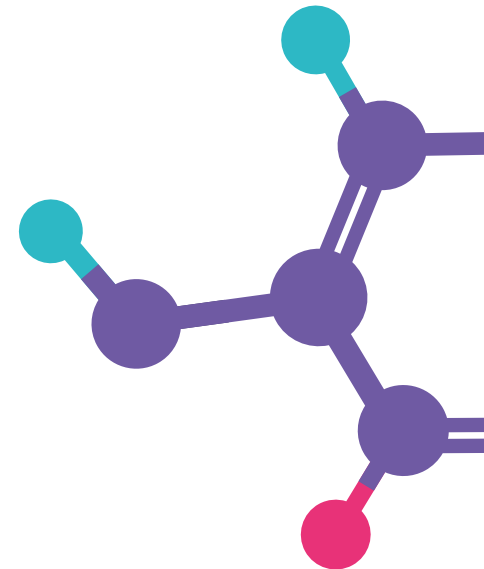
**Histone H3.3 (1-44)**  
**crb1000588**  
ARTKQTARKSTGGKAPRKQLATKAARKSAP  
STGGVKKPHRYRPG-acid  
**0.5mg £150 | 1mg £200**

## Histone H4 Peptides

**Histone H4 (1-21)**  
**crb1001008**  
SGRGKGGKGLGKGGAKRHRKV-acid  
**0.5mg £85 | 1mg £110**

**Histone H4 (1-21) R3Me<sub>1</sub>**  
**crb1000403**  
SG-[R(Me)]-GKGGKGLGKGGAKRHRKV-acid  
**0.5mg £170 | 1mg £220**

**Histone H4 (1-21) R3Me<sub>2</sub>**  
**crb1000907**  
SG-[R(Me<sub>2</sub>)]-GKGGKGLGKGGAKRHRKV-acid  
**0.5mg £170 | 1mg £220**



DISCOVERY® Peptides is the catalogue range from Cambridge Research Biochemicals, a custom peptide provider. If your desired peptide is not listed or you wish to order a larger quantity, please request a custom synthesis quotation by contacting [crbsales@crbdiscovery.com](mailto:crbsales@crbdiscovery.com)

[www.crbdiscovery.com/histone-peptides](http://www.crbdiscovery.com/histone-peptides)

More peptides available at [www.crbdiscovery.com/discovery-peptides](http://www.crbdiscovery.com/discovery-peptides)

T +44 (0) 1642 567 180 F +44 (0) 1642 567 181 E [crbsales@crbdiscovery.com](mailto:crbsales@crbdiscovery.com)