

## Histone H3 (1-34)

Cat. No.:	HY-P2258
Molecular Formula:	C <sub>144</sub> H <sub>260</sub> N <sub>54</sub> O <sub>44</sub>
Molecular Weight:	3452
Sequence:	Ala-Arg-Thr-Lys-Gln-Thr-Ala-Arg-Lys-Ser-Thr-Gly-Gly-Lys-Ala-Pro-Arg-Lys-Gln-Leu-Ala-Thr-Lys-Ala-Ala-Arg-Lys-Ser-Ala-Pro-Ala-Thr-Gly-Gly
Sequence Shortening:	ARTKQTARKSTGGKAPRKQLATKAARKSAPATGG
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder    -80°C    2 years -20°C    1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

### BIOLOGICAL ACTIVITY

#### Description

Histone H3 (1-34) is a peptide derived from human histone isotype 3.1. Histones are the main protein components of eukaryotic chromatin. Histone variants and histone modifications modulate chromatin structure, ensuring the precise operation of cellular processes associated with genomic DNA<sup>[1][2]</sup>.

### REFERENCES

- [1]. Hake SB, Allis CD. Histone H3 variants and their potential role in indexing mammalian genomes: the "H3 barcode hypothesis". Proc Natl Acad Sci U S A. 2006;103(17):6428-6435.
- [2]. Mulder KW, et al. Regulation of histone H3K4 tri-methylation and PAF complex recruitment by the Ccr4-Not complex. Nucleic Acids Res. 2007;35(7):2428-2439.
- [3]. Xiong C, et al. Histone Variant H3.3: A versatile H3 variant in health and in disease. Sci China Life Sci. 2016;59(3):245-256.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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