

Screening Libraries

Proteins

Product Data Sheet

H2AC4 Protein, Human

Cat. No.: HY-P72328

Synonyms: "Histone H2A type 1-B/E; Histone H2A.2; Histone H2A/a; Histone H2A/m; H2AFM"

Species: Source: E. coli

P04908 (S2-K130) Accession:

Gene ID: 3012

Molecular Weight: Approximately 14.0 kDa

PROPERTIES

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$\Lambda \Lambda$	Sea	IIIΔN	60

AGLQFPVGRV SGRGKQGGKA RAKAKTRSSR HRLLRKGNYS ERVGAGAPVY LAAVLEYLTA EILELAGNAA RDNKKTRIIP RHLQLAIRND EELNKLLGRV TIAQGGVLPN IQAVLLPKKT

ESHHKAKGK

Lyophilized powder. **Appearance**

Formulation Lyophilized from a 0.2 μm filtered solution of ddH₂O, pH 7.0.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. For long term storage it is

recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is

recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

H2AC4 protein serves as a core component of the nucleosome, an integral structure that envelops and compacts DNA into chromatin, effectively restricting DNA accessibility to cellular machineries requiring DNA as a template. Histones, including H2AC4, assume a pivotal role in key cellular processes such as transcription regulation, DNA repair, DNA replication, and the maintenance of chromosomal stability. The intricate regulation of DNA accessibility involves a complex network of posttranslational modifications, collectively known as the histone code, and dynamic nucleosome remodeling. The nucleosome itself comprises a histone octamer, consisting of two molecules each of H2A, H2B, H3, and H4, arranged in one H3-H4 heterotetramer and two H2A-H2B heterodimers. This octamer efficiently wraps approximately 147 base pairs of DNA, underscoring its fundamental role in organizing chromatin structure and facilitating genomic functions.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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