

Histone H2A Protein, *Xenopus laevis*

Cat. No.:	HY-P72330
Synonyms:	h2ac14.L
Species:	<i>Xenopus laevis</i>
Source:	<i>E. coli</i>
Accession:	Q6AZJ8 (T17-L197)
Gene ID:	494591
Molecular Weight:	Approximately 12.3 kDa

PROPERTIES

AA Sequence	<p> T R S S R A G L Q F P V G R V H R L L R K G N Y A E R V G A G A P V Y L A A V L E Y L T A E I L E L A G N A A R D N K K T R I I P R H L Q L A V R N D E E L N K L </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of ddH ₂ O, pH 7.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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	<p>Histone H2A is a crucial component of the nucleosome, a fundamental structural unit in chromatin organization. The nucleosome comprises a histone octamer composed of two copies each of H2A, H2B, H3, and H4, with one H3-H4 heterotetramer and two H2A-H2B heterodimers. This octameric assembly serves as a molecular spool around which approximately 147 base pairs of DNA are intricately wound, contributing to the compact and organized structure of chromatin. The intricate association of histones, including H2A, with DNA in the nucleosome is essential for the regulation of various cellular processes, including gene expression and DNA packaging.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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