Histone H3 Protein, Xenopus laevis (135a.a)

Cat. No.:	HY-P72333
Synonyms:	h3c8.S
Species:	Xenopus laevis
Source:	E. coli
Accession:	Q92133 (A2-A136)
Gene ID:	399088
Molecular Weight:	Approximately 20 kDa

PROPERTIES

AA Sequence	A R T K Q T A R K S T G G K A P R K Q L A T K A A R K S A P A T G G V K K P H R Y R P G T V A L R E I R R Y Q K S T E L L I R K L P F Q R L V R E I A Q D F K T D L R F Q S S A V M A L Q E A S E A Y L V A L F E D T N L C A I H A K R V T I M P K D I Q L A R R I R G E R A
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCL, 200 mM arginine, pH 8.0.
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 ddH_2O. 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	The Histone H3 Protein is a fundamental component of the nucleosome, which comprises a histone octamer containing two molecules each of H2A, H2B, H3, and H4. This assembly consists of one H3-H4 heterotetramer and two H2A-H2B heterodimers, collectively forming the octameric core. Functioning as a molecular spool, the histone octamer wraps approximately 147 base pairs of DNA around itself, contributing to the compact organization of chromatin. Histone H3, as part of this assembly, belongs to the histone H3 family, playing a pivotal role in chromatin structure and gene regulation.

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

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