

H2BC11 Protein, Human

Cat. No.:	HY-P72329
Synonyms:	H2BC11; Histone H2B type 1-J
Species:	Human
Source:	E. coli
Accession:	P06899 (P2-K126)
Gene ID:	8970
Molecular Weight:	Approximately 13.8 kDa

PROPERTIES

AA Sequence	<p> P E P A K S A P A P K K G S K K A V T K A Q K K D G K K R K R S R K E S Y S I Y V Y K V L K Q V H P D T G I S S K A M G I M N S F V N D I F E R I A G E A S R L A H Y N K R S T I T S R E I Q T A V R L L L P G E L A K H A V S E G T K A V T K Y T S A K </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 H2BC11 is an essential component of the nucleosome, which serves as the fundamental unit of chromatin, responsible for wrapping and compacting DNA. This compaction limits DNA accessibility to cellular machineries, impacting transcription regulation, DNA repair, replication, and chromosomal stability. Histones, including H2BC11, play a central role in these processes. The regulation of DNA accessibility involves a complex array of post-translational modifications, known as the histone code, and nucleosome remodeling. Beyond its role in chromatin organization, H2BC11 exhibits broad antibacterial activity, suggesting its potential involvement in the formation of the functional antimicrobial barrier of the colonic epithelium. Moreover, H2BC11 may contribute to the bactericidal activity of amniotic fluid, extending its functional significance beyond chromatin dynamics to host defense mechanisms against microbial threats.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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