

HIST1H2BM Protein, Mouse (His)

Cat. No.:	HY-P72225
Synonyms:	H2bc14; Hist1h2bm; Histone H2B type 1-M; H2B 291B
Species:	Mouse
Source:	E. coli
Accession:	P10854 (P2-K126)
Gene ID:	319186
Molecular Weight:	Approximately 17.8 kDa

PROPERTIES

AA Sequence	<p> P E P T 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 V 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 S K </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.
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.
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>HIST1H2BM protein functions as a core component of the nucleosome, a crucial architectural unit that envelops and compacts DNA into chromatin, thereby limiting DNA accessibility to cellular machineries dependent on DNA templates. Playing a pivotal role in transcription regulation, DNA repair, DNA replication, and the maintenance of chromosomal stability, histones contribute significantly to cellular processes. The regulation of DNA accessibility involves a sophisticated system of post-translational modifications, collectively known as the histone code, and dynamic nucleosome remodeling. The nucleosome structure consists of a histone octamer, including two molecules each of H2A, H2B, H3, and H4, assembled into one H3-H4 heterotetramer and two H2A-H2B heterodimers. This octamer efficiently wraps approximately 147 base pairs of DNA, reflecting its central role in chromatin organization and genomic function.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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