HIST2H2BE Protein, Human

Cat. No.:	HY-P76381
Synonyms:	Histone H2B type 2-E; Histone H2B-GL105; H2B/q; H2BC21; H2BFQ
Species:	Human
Source:	E. coli
Accession:	Q16778 (M1-K126)
Gene ID:	8349
Molecular Weight:	Approximately 16 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 2 mM β-Mercaptoethanol, pH 6.9. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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	Histone HIST2H2BE is a core component of the nucleosome, serving a pivotal role in wrapping and compacting DNA into chromatin. This compaction restricts DNA accessibility to cellular machineries, impacting crucial processes such as transcription regulation, DNA repair, DNA replication, and chromosomal stability. The regulation of DNA accessibility involves a complex interplay of post-translational modifications known as the histone code, along with nucleosome remodeling. Beyond its chromatin-associated functions, HIST2H2BE exhibits broad antibacterial activity, suggesting potential contributions to the formation of the functional antimicrobial barrier in the colonic epithelium. Additionally, this histone may play a role in the bactericidal activity of amniotic fluid, highlighting its multifaceted significance in both chromatin dynamics and host defense mechanisms against microbial threats.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA