

CENPB Protein, Human (sf9, His)

Cat. No.:	HY-P75353
Synonyms:	Major centromere autoantigen B; CENP-B; CENPB
Species:	Human
Source:	Sf9 insect cells
Accession:	P07199 (M1-S599)
Gene ID:	1059
Molecular Weight:	Approximately 67.5 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 15 mM NaCl, 10% Glycerol, pH 7.0, 0.5 mM TCEP. 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.
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>The CENPB protein plays a pivotal role in centromere organization by interacting with centromeric heterochromatin in chromosomes and binding specifically to a 17 bp subset of alphoid satellite DNA known as the CENP-B box. This interaction is crucial for the potential organization of centromere satellite DNA into a higher-order structure, likely directing centromere formation and facilitating kinetochore assembly in mammalian chromosomes. CENPB forms an antiparallel homodimer and also interacts with CENPT. Furthermore, it has been identified as a component of a centromere complex that includes histones H2A, H2B, and H4, along with at least CENPA, CENPC, CENPT, CENPN, HJURP, SUPT16H, SSRP1, and RSF1, underscoring its integral role in the intricate architecture of the centromeric region.</p>
------------	--

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

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