

Recombinant Human CENPE Protein

Cat. No. CENPE-021H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CENPE Protein, Human is the recombinant human-derived CENPE, expressed by E. coli
Species	Human
Source	E.coli
ProteinLength	1-339 aa
Description	Centrosome-associated protein E (CENPE) is a kinesin-like motor protein that accumulates in the G2 phase of the cell cycle. Unlike other centrosome-associated proteins, it is not present during interphase and first appears at the centromere region of chromosomes during prometaphase. This protein is required for stable spindle microtubule capture at kinetochores which is a necessary step in chromosome alignment during prometaphase. This protein also couples chromosome position to microtubule depolymerizing activity. Alternative splicing results in multiple transcript variants encoding distinct protein isoforms.
Form	Solution. Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH 7.5, 200 mM NaCl, 20% glycerol, 1 mM DTT.
Molecular Mass	38.2 kDa
Endotoxin	<1 EU/µg, determined by LAL method.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	Greater than 90% as determined by reducing SDS-PAGE
Storage	Stored at -80 centigrade for 1 year from date of receipt. It is stable at -20 centigrade for 3 months after opening. It is recommended to freeze aliquots at -80 centigrade for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.
Reconstitution	Please use rapid thawing with running water to thaw the protein.

GENE INFORMATION

Gene Name	CENPE centromere protein E [Homo sapiens (human)]
Official Symbol	CENPE
Synonyms	CENPE; centromere protein E; KIF10; CENP-E; MCPH13; PPP1R61; centromere-associated protein E; Centromere autoantigen E (312kD); centromere protein E, 312kDa; kinesin family member 10; kinesin-7; kinesin-related protein CENPE; protein phosphatase 1, regulatory subunit 61
Gene ID	1062
mRNA Refseq	NM_001813
Protein Refseq	NP_001804
MIM	117143
UniProt ID	Q02224

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