

# Recombinant human CPEB1 protein

Catalog Number: ATGP2659

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-561aa

**UniProt No.**

Q9BZB8

**NCBI Accession No.**

NP\_085097

**Alternative Names**

Cytoplasmic polyadenylation element binding protein 1, CEBP, CPE-BP1, CPEB

## PRODUCT SPECIFICATION

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**Molecular Weight**

64.5 kDa (584aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

**Purity**

&gt; 85% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE, Denatured

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

CPEB1 is a member of the cytoplasmic polyadenylation element (CPE) binding protein family. This highly conserved protein binds to a specific RNA sequence called the CPE found in the 3' uTR of some mRNAs. Similar proteins in *Xenopus* and mouse function to induce cytoplasmic polyadenylation of dormant mRNAs with short polyA tails, resulting in their translation. Members of this protein family regulate translation of cyclin B1 during embryonic cell divisions. Recombinant human CPEB1 protein, fused to His-tag at N-terminus, was expressed in *E. coli*.

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## Amino acid Sequence

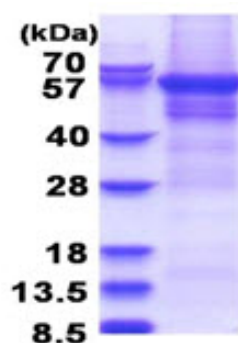
MGSSHHHHHH SSGLVPRGSH MGSMAFPLEE EAGRIKDCWD NQEAPALSTC SNANIFRRIN AILDNSLDFS RVCTTPINRG  
IHDHLPDFQD SEETVTSRML FPTSAQESSR GLPDANDLCL GLQSLSLTGW DRPWSTQDSD SSAQSSTHSV LSMLHNPLGN  
VLGKPPLSFL PLDPLGSDLV DKFPAPSVRG SRLDTRPILD SRSSSPSDSD TSGFSSGSDH LSDLISSLRI SPPLPFLSLS  
GGGPRDPLKM GVGSRMDQEQ AALAAVTPSP TSASKRWPGA SVWPSWDLLE APKDPFSIER EARLHRQAAA  
VNEATCTWSG QLPPRNYKNP IYSCKVFLGG VPWDITEAGL VNTFRVFGSL SVEWPGKD GK HPRCPPKGYV YLVFELEKSV  
RSLAQACSHD PLSPDGLSEY YFKMSSRRMR CKEVQVIPWV LADSNFVRSP SQRLDPSRTV FVGALHGMLN AEALAAILND  
LFGGVVYAGI DTDKHKYPIG SGRVTFNNQR SYLKAVSAAF VEIKTTKFTK KVQIDPYLED SLCHICSSQP GPFFCRDQVC  
FKYFCRSCWH WRHSMEGLRH HSPLMRNQKN RDSS

## General References

Sasayama T., et al. (2005) Genes Cells. 10:627-638  
Wilczynska A., et al. (2005) J. Cell Sci. 118:981-992

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)