

Recombinant human CPEB1 protein

Catalog Number: ATGP2659

PRODUCT INFORMATION

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

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

> 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

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

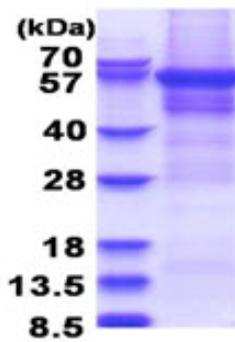
MGSSHHHHHH SSGLVPRGSH MGSMAFPLEE EAGRIKDCWD NQEAPALSTC SNANIFRRIN AILDNSLDFS RVCTTPINRG
IHDHLPDFQD SEETVTSRML FPTSQAQESSR GLPDANDLCL GLQSLSLTGW DRPWSTQDSD SSAQSSTHSV LSMLHNPLGN
VLGKPLSFL PLDPLGSDLV DKFPAPSVRG SRLDTRPILD SRSSSPSDSD TSGFSSGSDH LSDLISSLRI SPPLPFLSLS
GGGPRDPLKM GVGSRMDQEQ AALAAVTPSP TSASKRWPGA SVWPSWDLLE APKDPFSIER EARLHRQAAA
VNEATCTWSG QLPPRNYKNP IYSCKVFLGG VPWDITEAGL VNTFRVFGSL SVEWPGKDGK HPRCPPKGYV YLVFELEKSV
RSLQACSHD PLSPDGLSEY YFKMSSRRMR CKEVQVIPWV LADSNFVRSP SQRLDPSRTV FVGALHGMLN AEALAAIIND
LFGGVVYAGI DTDKHKYPIG SGRVTFNNQR SYLKAVSAAF VEIKTKFTK 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)