

Recombinant Human CPEB1, His-tagged

Cat. No. CPEB1-166H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CPEB1,1-561aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-561aa
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	64.5 kDa (584aa)
AA 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

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GVGSRMDQEQ AALAAVTPSP TSASKRWPGA SVWPSWDLLE APKDPFSIER
 EARLHRQAAA VNEATCTWSG QLPPRNYKNP IYCKVFLGG VPWDITEAGL
 VNTFRVFGSL SVEWPGKDGK HPRCPPKGYV YLVFELEKSV RSLQACSHD
 PLSPDGLSEY YFKMSSRRMR CKEVQVIPWV LADSNFVRSP SQRLDPSRTV
 FVGALHGMLN AEALAILND LFGGVVYAGI DTDKHKYPIG SGRVTFNNQR
 SYLKAVSAAF VEIKTTKFTK KVQIDPYLED SLCHICSSQP GPFFCRDQVC
 FKYFCRSCWH WRHSMEGLRH HSPLMRNQKN RDSS

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CPEB1 cytoplasmic polyadenylation element binding protein 1 [Homo sapiens]

Official Symbol CPEB1

Synonyms CPEB1; cytoplasmic polyadenylation element binding protein 1; cytoplasmic polyadenylation element-binding protein 1; CPEB; FLJ13203; h-CEBP; hCPEB-1; CPE-binding protein 1; CEBP; CPE-BP1; MGC34136; MGC60106;

Gene ID 64506

mRNA Refseq NM_001079533

Protein Refseq NP_001073001

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MIM	607342
UniProt ID	Q9BZB8
Chromosome Location	15q25.1
Pathway	Aurora A signaling, organism-specific biosystem; Dorso-ventral axis formation, organism-specific biosystem; Dorso-ventral axis formation, conserved biosystem; Oocyte meiosis, organism-specific biosystem; Oocyte meiosis, conserved biosystem; Progesterone-mediated oocyte maturation, organism-specific biosystem; Progesterone-mediated oocyte maturation, conserved biosystem;
Function	RNA binding; nucleotide binding;

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