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**Product Data Sheet**


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Product Name: CPEB1 Human  
 Cat. No.: GP23211  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cytoplasmic Polyadenylation Element Binding Protein 1; CPE-Binding Protein 1; CPE-BP1; HCPEB-1; CPEB; Cytoplasmic Polyadenylation Element-Binding Protein 1; CPEB-1; H-CEBP; CEBP; CPEB1.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH 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 IYCKVFLGG VPWDITEAGL          VNTFRVFGSL SVEWPGKDGK HPRCPPKGYV YLVFELEKSV RSLQACSHD          PLSPDGLSEY YFKMSSRRMR CKEVQVIPWV LADSNFVRSP SQRLDPSRTV          FVGALHGMLN AEALAILND LFGGVVYAGI DTDKHKYPIG SGRVTFNNQR          SYLKAVSAAF VEIKTTKFTK KVQIDPYLED SLCHICSSQP GPFPCRQDQVC          FKYFCRSCWH WRHSMGLRH HSPLMRNQKN RDSS.</p>		
Formulation	The CPEB1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

**Introduction**

Cytoplasmic Polyadenylation Element Binding Protein 1 (CPEB1) belongs to the cytoplasmic polyadenylation element (CPE) binding protein family, whose members regulate translation of cyclin B1 during embryonic cell divisions. The CPEB1 is a highly conserved protein which binds to a specific RNA sequence called the CPE found in the 3' UTR of some mRNAs. Analogous proteins in *Xenopus* and mouse function to stimulate cytoplasmic polyadenylation of dormant mRNAs with short polyA tails, resulting in their

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

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translation.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CPEB1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 584 amino acids (1-561) and having a molecular mass of 64.5 kDa. CPEB1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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