9051 Mira Mesa Blvd, #910094
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CPEB1 Human

Cytoplasmic Polyadenylation Element Binding Protein 1 Human Recombinant RCP0512

Product Overview

Name	CPEB1 Human

Description

Cytoplasmic Polyadenylation Element Binding Protein 1 Human Recombinant

Accession (Primary)	Q9BZB8

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.

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 translation.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

The CPEB1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.

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.

Purity

Greater than 85.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS MAFPLEE EAGRIKDCWD NQEAPALSTC SNANIFRRIN AILDNSLDFS RVCTTPINRG IHDHLPDFQD SEETVTSRML FPTSAQESSR GLPDANDLCL GLQSLSLTGW DRPWSTQDSD SSAQSSTHSV LSMLHNPLGN VLGKPPLSFL PLDPLGSDLV DKFPAPSVRG SRLDTRPILD SRSSSPSDSD

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TSGFSSGSDH LSDLISSLRI SPPLPFLSLS GGGPRDPLKM GVGSRMDQEQ AALAAVTPSP TSASKRWPGA SVWPSWDLLE APKDPFSIER EARLHRQAAA VNEATCTWSG QLPPRNYKNP IYSCKVFLGG VPWDITEAGL VNTFRVFGSL SVEWPGKDGK HPRCPPKGYV YLVFELEKSV RSLLQACSHD PLSPDGLSEY YFKMSSRRMR CKEVQVIPWV LADSNFVRSP SQRLDPSRTV FVGALHGMLN AEALAAILND LFGGVVYAGI DTDKHKYPIG SGRVTFNNQR SYLKAVSAAF VEIKTTKFTK KVQIDPYLED SLCHICSSQP GPFFCRDQVC FKYFCRSCWH WRHSMEGLRH HSPLMRNQKN RDSS.

Precautions

CPEB1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9BZB8)