

Datasheet for ABIN7563510
CPEB1 Protein (AA 1-561) (His tag)



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Overview

Quantity:	1 mg
Target:	CPEB1
Protein Characteristics:	AA 1-561
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPEB1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Cpeb1 Protein expressed in mammalian cells.
Sequence:	<p>MAFSLEEAAG RIKDCWDNQE VPALSTCSNA NIFRRINAIL DDSLDFSKVC TTPINRGIHD QLPDFQDSEE TVTSRMLFPT SAQESPRGLP DANGLCLGLQ SLSLTGWDRP WSTQDSDSSA QSSTQSVLSM LQNPLGNVLG KAPLSFLSLD PLGSDLDKFP APSVRGSRLD TRPILDSRSS SPSDSDTSGF SSGSDHLSDL ISSLRISPL PFLSMTGNGP RDPLKMGVGS RMDQEQAALA AVAPSPTSAP KRWPGASVWP SWDLLGAPKD PFSIEREARL HRQAAVNEA TCTWSGQLPP RNYKNPIYSC KVFLGGVPWD ITEAGLVNTF RVFGSLSVEW PGKDGKHPRC PPKGNMPKGY VYLVFELEKS VRALLQACSH DPLSPDGLSE YFFKMSSRRM RCKEVQVIPW VLADSNFVWS PSQRLDPSRT VFGALHGML NAEALAAILN DLFGGVVYAG IDTDKHKYPI GSGRVTFNNQ RSYLKAVTAA FVEIKTTKFT KKVQIDPYLE DSLCLICSSQ GPGFFCRDQV CFKYFCRSCW HWRHSMEGLR HHSPLMRNQK N Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>

Product Details

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: CPEB1

Alternative Name: Cpeb1 ([CPEB1 Products](#))

Background: Cytoplasmic polyadenylation element-binding protein 1 (CPE-BP1) (CPE-binding protein 1) (mCPEB) (mCPEB-1),FUNCTION: Sequence-specific RNA-binding protein that regulates mRNA cytoplasmic polyadenylation and translation initiation during oocyte maturation, early development and at postsynapse sites of neurons. Binds to the cytoplasmic polyadenylation element (CPE), an uridine-rich sequence element (consensus sequence 5'-UUUUUUAU-3') within the 3'-UTR of mRNAs. In absence of phosphorylation and in association with TACC3 is also involved as a repressor of translation of CPE-containing mRNA, a repression that is relieved by phosphorylation or degradation (By similarity). Involved in the transport of CPE-containing mRNA to dendrites, those mRNAs may be transported to dendrites in a translationally dormant form and translationally activated at synapses. Its interaction with APLP1 promotes local CPE-containing mRNA polyadenylation and translation activation. Induces the assembly of stress

Target Details

granules in the absence of stress (By similarity). Required for cell cycle progression, specifically for prophase entry (By similarity). {ECO:0000250|UniProtKB:Q9BZB8, ECO:0000269|PubMed:11526086, ECO:0000269|PubMed:11980711, ECO:0000269|PubMed:12629046}.

Molecular Weight: 61.9 kDa

UniProt: [P70166](#)

Pathways: [Synaptic Membrane](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months