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CPEB1 Protein (AA 1-561) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	CPEB1
Protein Characteristics:	AA 1-561
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPEB1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:

MAFSLEEAAG RIKDCWDNQE VPALSTCSNA NIFRRINAIL DDSLDFSKVC TTPINRGIHD
QLPDFQDSEE TVTSRMLFPT SAQESPRGLP DANGLCLGLQ SLSLTGWDRP WSTQDSDSSA
QSSTQSVLSM LQNPLGNVLG KAPLSFLSLD PLGSDLDKFP APSVRGSRLD TRPILDSRSS
SPSDSDTSGF SSGSDHLSDL ISSLRISPPL PFLSMTGNGP RDPLKMGVGS RMDQEQAALA
AVAPSPTSAP KRWPGASVWP SWDLLGAPKD PFSIEREARL HRQAAAVNEA TCTWSGQLPP
RNYKNPIYSC KVFLGGVPWD ITEAGLVNTF RVFGSLSVEW PGKDGKHPRC PPKGNMPKGY
VYLVFELEKS VRALLQACSH DPLSPDGLSE YYFKMSSRRM RCKEVQVIPW VLADSNFVWS
PSQRLDPSRT VFVGALHGML NAEALAAILN DLFGGVVYAG IDTDKHKYPI GSGRVTFNNQ
RSYLKAVTAA FVEIKTTKFT KKVQIDPYLE DSLCLICSSQ PGPFFCRDQV CFKYFCRSCW
HWRHSMEGLR HHSPLMRNQK N

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.

Product Details

	Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.			
Purity:	≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.			
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)			
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'-UUUUUAU-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 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:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.			

Application Details

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Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)