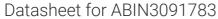
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CLP1 Protein (AA 1-425) (Strep Tag)



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Overview

Quantity:	1 mg	
Target:	CLP1	
Protein Characteristics:	AA 1-425	
Origin:	Human	
Source:	Tobacco (Nicotiana tabacum)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This CLP1 protein is labelled with Strep Tag.	
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)	

Product Details

Sequence:

MGEEANDDKK PTTKFELERE TELRFEVEAS QSVQLELLTG MAEIFGTELT RNKKFTFDAG
AKVAVFTWHG CSVQLSGRTE VAYVSKDTPM LLYLNTHTAL EQMRRQAEKE EERGPRVMVV
GPTDVGKSTV CRLLLNYAVR LGRRPTYVEL DVGQGSVSIP GTMGALYIER PADVEEGFSI
QAPLVYHFGS TTPGTNIKLY NKITSRLADV FNQRCEVNRR ASVSGCVINT CGWVKGSGYQ
ALVHAASAFE VDVVVVLDQE RLYNELKRDL PHFVRTVLLP KSGGVVERSK DFRRECRDER
IREYFYGFRG CFYPHAFNVK FSDVKIYKVG APTIPDSCLP LGMSQEDNQL KLVPVTPGRD
MVHHLLSVST AEGTEENLSE TSVAGFIVVT SVDLEHQVFT VLSPAPRPLP KNFLLIMDIR FMDLK
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.
- 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.

Product Details >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Target Details CLP1 Target: CLP1 (CLP1 Products) Alternative Name: Background: Polyribonucleotide 5'-hydroxyl-kinase Clp1 (EC 2.7.1.78) (Polyadenylation factor Clp1) (Polynucleotide kinase Clp1) (Pre-mRNA cleavage complex II protein Clp1),FUNCTION: Polynucleotide kinase that can phosphorylate the 5'-hydroxyl groups of double-stranded RNA (dsRNA), single-stranded RNA (ssRNA), double-stranded DNA (dsDNA) and double-stranded DNA:RNA hybrids. dsRNA is phosphorylated more efficiently than dsDNA, and the RNA component of a DNA:RNA hybrid is phosphorylated more efficiently than the DNA component. Plays a key role in both tRNA splicing and mRNA 3'-end formation. Component of the tRNA splicing endonuclease complex: phosphorylates the 5'-terminus of the tRNA 3'-exon during tRNA splicing, this phosphorylation event is a prerequisite for the subsequent ligation of the two exon halves and the production of a mature tRNA (PubMed:24766809, PubMed:24766810). Its role in tRNA splicing and maturation is required for cerebellar development (PubMed:24766809, PubMed:24766810). Component of the pre-mRNA cleavage complex II (CF-II), which seems to be required for mRNA 3'-end formation. Also phosphorylates the 5'-terminus of exogenously introduced short interfering RNAs (siRNAs), which is a necessary prerequisite for their incorporation into the RNA-induced silencing complex (RISC). However, endogenous siRNAs and microRNAs (miRNAs) that are produced by the cleavage of dsRNA precursors by DICER1 already contain a 5'-phosphate group, so this protein may be dispensible for normal RNAmediated gene silencing. {ECO:0000269|PubMed:17495927, ECO:0000269|PubMed:18648070, ECO:0000269|PubMed:24766809, ECO:0000269|PubMed:24766810}. Molecular Weight: 47.6 kDa UniProt: Q92989 Ribonucleoprotein Complex Subunit Organization Pathways:

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)