Datasheet for ABIN3131668

CCRN4L Protein (AA 1-429) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CCRN4L
Protein Characteristics:	AA 1-429
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCRN4L protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MYQSPRRLCS ALLLRDAPGL RRTLVPGPRR TLAPPVLGSR PKSPQLQAAA ASGAARSRPR TVSSMGNGTS RLYSALAKTV NSSAAAQHPE YLVSTDPEHL EPIDPKELLE ECRAVLHTRP PRYQRDFVDL RTDCSSSHSP IRVMQWNILA QALGEGKDNF VQCPVEALKW EERKCLILEE ILAYQPDILC LQEVDHYFDT FQPLLSRLGY QGTFFPKPWS PCLDVEHNNG PDGCALFFLQ NRFKLISSTN IRLTAMTLKT NQVAIAQTLE CKESGRQFCI AVTHLKARTG WERFRSAQGC DLLQNLQNIT QGAKIPLIVC GDFNAEPTEE VYKHFASSSL NLNSAYKLLS PDGQSEPPYT TWKIRTSGEC RHTLDYIWYS RHALSVTSAL DLLTEEQIGP NRLPSFHYPS DHLSLVCDFS FNEEPHELF **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.**

Product Details

Characteristics:	Key Benefits: • Made in Germany - from design to production - by highly experienced protein experts. • Protein expressed with ALiCE® and purified in one-step affinity chromatography • 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 try to ensure that you receive soluble 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 post-translational 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 against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	CCRN4L
Alternative Name:	Noct (CCRN4L Products)
Background:	Nocturnin (EC 3.1.3.108) (Carbon catabolite repression 4-like protein),FUNCTION: Phosphatase which catalyzes the conversion of NADP(+) to NAD(+) and of NADPH to NADH (By similarity). Shows a small preference for NADPH over NADP(+) (By similarity). Represses translation and promotes degradation of target mRNA molecules (By similarity). Plays an important role in post-transcriptional regulation of metabolic genes under circadian control (PubMed:20685873, PubMed:20498072). Exerts a rhythmic post-transcriptional control of genes necessary for metabolic functions including nutrient absorption, glucose/insulin sensitivity, lipid metabolism, adipogenesis, inflammation and osteogenesis (PubMed:20498072, PubMed:22082366, PubMed:21820310, PubMed:22073225, PubMed:22331129). Plays an important role in favoring adipogenesis over osteoblastogenesis and acts as a key regulator of the adipogenesis/osteogenesis balance (PubMed:20498072, PubMed:22082366). Promotes adipogenesis by facilitating PPARG nuclear translocation which activates its transcriptional activity (PubMed:20498072). Regulates circadian expression of NOS2 in the liver and negatively regulates the circadian expression of IGF1 in the bone (PubMed:22073225, PubMed:20685873). Critical for proper development of early embryos (PubMed:23449310). {ECO:0000250|UniProtKB:Q9UK39, ECO:0000269|PubMed:20498072, ECO:0000269|PubMed:20685873, ECO:0000269|PubMed:21820310, ECO:0000269|PubMed:22073225, ECO:0000269|PubMed:22082366, ECO:0000269|PubMed:22331129, ECO:0000269|PubMed:23449310}.
Molecular Weight:	48.3 kDa
UniProt:	O35710
Pathways:	Ribonucleoprotein Complex Subunit Organization

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.
Comment:	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 post-translational modifications.

Application Details

	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!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months