

Datasheet for ABIN7562368
CCRN4L Protein (AA 1-429) (His tag)



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Overview

Quantity:	1 mg
Target:	CCRN4L
Protein Characteristics:	AA 1-429
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCRN4L protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Noct Protein expressed in mammalian cells.
Sequence:	MYQSPRRRLCS ALLLRDAPGL RRTLVPGPRR TLAPPVLGSR PKSPQLQAAA ASGAARSRPR TVSSMGNGTS RLYSALAKTV NSSAAAQHPE YLVSTDPEHL EPIDPKELLE ECRAVLHTRP PRYQRDFVDL RTDCSSSHSP IRVMQWNILA QALGEGKDNF VQCPVEALKW EERKCLILEE ILAYQPDILC LQEVDPHYFDT FQPLLSRLGY QGTFPPKPWS PCLDVEHNNG PDGCALFFLQ NRFKLISSTN IRLTAMTLKT NQVAIAQTLE CKESGRQFCI AVTHLKARTG WERFRSAQGC DLLQNLQINIT QGAKIPLIVC GDFNAEPTTE VYKHFSSSL NLNSAYKLLS PDGQSEPPYT TWKIRTSGEC RHTLDYIWYS RHALSVTSAL DLLTEEQIGP NRLPSFHYP S DHLSLVCDFS FNEEPHELF 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.
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.

Product Details

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:

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 PPAR γ nuclear translocation which activates its transcriptional activity (PubMed:20498072). Regulates circadian expression of NOS2 in the liver and negatively

Target Details

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: 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