

Datasheet for ABIN3087736 RTCD1 Protein (AA 1-366) (Strep Tag)



Overview

Quantity:	1 mg
Target:	RTCD1
Protein Characteristics:	AA 1-366
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RTCD1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAGPRVEVDG SIMEGGGQIL RVSTALSCLL GLPLRVQKIR AGRSTPGLRP QHLSGLEMIR
	DLCDGQLEGA EIGSTEITFT PEKIKGGIHT ADTKTAGSVC LLMQVSMPCV LFAASPSELH
	LKGGTNAEMA PQIDYTVMVF KPIVEKFGFI FNCDIKTRGY YPKGGGEVIV RMSPVKQLNP
	INLTERGCVT KIYGRAFVAG VLPFKVAKDM AAAAVRCIRK EIRDLYVNIQ PVQEPKDQAF
	GNGNGIIIIA ETSTGCLFAG SSLGKRGVNA DKVGIEAAEM LLANLRHGGT VDEYLQDQLI
	VFMALANGVS RIKTGPVTLH TQTAIHFAEQ IAKAKFIVKK SEDEEDAAKD TYIIECQGIG MTNPNL
	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:

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- 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 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 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:	RTCD1

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Alternative Name:	RTCA (RTCD1 Products)
Background:	RNA 3'-terminal phosphate cyclase (RNA cyclase) (RNA-3'-phosphate cyclase) (EC 6.5.1.4)
	(RNA terminal phosphate cyclase domain-containing protein 1) (RTC domain-containing proteir
	1),FUNCTION: Catalyzes the conversion of 3'-phosphate to a 2',3'-cyclic phosphodiester at the
	end of RNA (PubMed:9184239). The mechanism of action of the enzyme occurs in 3 steps: (A)
	adenylation of the enzyme by ATP, (B) transfer of adenylate to an RNA-N3'P to produce RNA-
	N3'PP5'A, (C) and attack of the adjacent 2'-hydroxyl on the 3'-phosphorus in the diester linkage
	to produce the cyclic end product (PubMed:9184239). Likely functions in some aspects of
	cellular RNA processing (PubMed:9184239, PubMed:25961792). Function plays an important
	role in regulating axon regeneration by inhibiting central nervous system (CNS) axon
	regeneration following optic nerve injury (PubMed:25961792).
	{ECO:0000269 PubMed:25961792, ECO:0000269 PubMed:9184239}.
Molecular Weight:	39.3 kDa
UniProt:	000442
Application Details	
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	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.
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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