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RCC2 Protein (AA 1-522) (Strep Tag)



Image



Go to Product pag

Overview

Quantity:	1 mg
Target:	RCC2
Protein Characteristics:	AA 1-522
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RCC2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

MPRKKAAAAA WEEPSSGNGT ARAGPRKRGG PAGRKRERPE RCSSSSGGGS SGDEDGLELD GAPGGGKRAA RPATAGKAGG AAVVITEPEH TKERVKLEGS KCKGQLLIFG ATNWDLIGRK EVPKQQAAYR NLGQNLWGPH RYGCLAGVRV RTVVSGSCAA HSLLITTEGK LWSWGRNEKG QLGHGDTKRV EAPRLIEGLS HEVIVSAACG RNHTLALTET GSVFAFGENK MGQLGLGNQT DAVPSPAQIM YNGQPITKMA CGAEFSMIMD CKGNLYSFGC PEYGQLGHNS DGKFIARAQR IEYDCELVPR RVAIFIEKTK DGQILPVPNV VVRDVACGAN HTLVLDSQKR VFSWGFGGYG RLGHAEQKDE MVPRLVKLFD FPGRGASQIY AGYTCSFAVS EVGGLFFWGA TNTSRESTMY PKAVQDLCGW RIRSLACGKS SIIVAADEST ISWGPSPTFG ELGYGDHKPK SSTAAQEVKT LDGIFSEQVA MGYSHSLVIA RDESETEKEK IKKLPEYNPR TL

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.
- 2. 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

Product Details

	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)
Grade:	Crystallography grade
Target Details	
Target:	RCC2
Alternative Name:	RCC2 (RCC2 Products)
Background:	Protein RCC2 (RCC1-like protein TD-60) (Telophase disk protein of 60 kDa),FUNCTION:
	Multifunctional protein that may affect its functions by regulating the activity of small GTPases
	such as RAC1 and RALA (PubMed:12919680, PubMed:25074804, PubMed:26158537,
	PubMed:28869598). Required for normal progress through the cell cycle, both during
	interphase and during mitosis (PubMed:23388455, PubMed:12919680, PubMed:26158537).
	Required for the presence of normal levels of MAD2L1, AURKB and BIRC5 on inner centromere
	during mitosis, and for normal attachment of kinetochores to mitotic spindles
	(PubMed:12919680, PubMed:26158537). Required for normal organization of the microtubule
	cytoskeleton in interphase cells (PubMed:23388455). Functions as guanine nucleotide
	exchange factor (GEF) for RALA (PubMed:26158537). Interferes with the activation of RAC1 by
	guanine nucleotide exchange factors (PubMed:25074804). Prevents accumulation of active,
	GTP-bound RAC1, and suppresses RAC1-mediated reorganization of the actin cytoskeleton and
	formation of membrane protrusions (PubMed:25074804, PubMed:28869598). Required for
	normal cellular responses to contacts with the extracellular matrix of adjacent cells, and for
	directional cell migration in response to a fibronectin gradient (in vitro) (PubMed:25074804,
	PubMed:28869598). {ECO:0000269 PubMed:12919680, ECO:0000269 PubMed:23388455,
	ECO:0000269 PubMed:25074804, ECO:0000269 PubMed:26158537,
	ECO:0000269 PubMed:28869598}.
Molecular Weight:	56.1 kDa
UniProt:	Q9P258
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

Application Details

Application Details		
	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. 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. 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)	



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process