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Datasheet for ABIN3094983

RIMS2 Protein (AA 1-1411) (Strep Tag)

Overview

Quantity:	1 mg
Target:	RIMS2
Protein Characteristics:	AA 1-1411
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RIMS2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence: MSAPVGPRGR LAPIPAASQP PLQPMPDLS HLTEEEKII LAVMDRQKKK VKEEHKPQLT
QWFPFSGITE LVNNVLQPQQ KQQNEKEPQT KLHQQFEMYK EQVKKMGEES QQQEQKGD
PTCGICHKTK FADGCGHNCS YCQTKFCARC GGRVSLRSNK VMWVCNLCKR QQEILTKSGA
WFYNSGSNTP QQPQDKVLRG LRNEEAPQEK KPKLHEQTQF QGPSGLSVP AVEKSRSHGL
TRQHSIKNGS GVKHHIASDI ASDRKRSPSV SRDQNRRYDQ REEREEYSQY ATSDTAMPRS
PSDYADRRSQ HEPQFYEDSD HLSYRDSNRR SHRHSKEYIV DDEDVESRDE YERQRREEEY
QSRYSRDPNL ARYPVKPQPY EEQMRIHAEV SRARHERRHS DVSLANADLE DSRISMLRMD
RPSRQRSISE RRAAMENQRS YSMERTREAQ GPSSYAQRRT NHSPPTPRRS PLPIDRPDLR
RTDSLRKQHH LDPSSAVRKT KREKMETMLR NDSLSSDQSE SVRPPPPKPH KSKKGGKMRQ
ISLSSSEEL ASTPEYTSCD DVEIESESVS EKGDSQKGKR KTSEQAVLSD SNTRSERQKE
MMYFGGHSLE EDLEWSEPQI KDSGVDTCCS TTLNEESHSHS DKHPVTWQPS KGDRLIGRI
LLNKRLKDGS VPRDSGAMLG LKVGGKMTSE SGRLCAFITK VKKGSLADTV GHLRPGDEVL

EWNGRLLQGA TFEEVYNIIL ESKPEPQVEL VVSRPIGDIP RIPDSTHAQL ESSSSSFESQ
KMDRPSISVT SPMSPGMLRD VPQFLSGQLS IKLWFDKVGH QLIVTILGAK DLPSREDGRP
RNPYVKIYFL PDRSDKNKRR TKTVKKTLEP KWNQTFIYSP VHRREFRERM LEITLWDQAR
VREEESEFLG EILIELETAL LDDEPHWYKL QTHDVSSLPL PHPSPYMPRR QLHGESPTRR
LQRSKRISDS EVSDYDCDDG IGVVSDYRHD GRDLQSSTLS VPEQVMSSNH CSPSGSPHRV
DVIGRTRSWS PSVPPPQSRN VEQGLRGTRT MTGHYNTISR MDRHRVMDDH YSPDRDRDCE
AADRQPYHRS RSTEQRPLLE RTTTRSRSSTE RPDNTLMRSM PSLMTGRSAP PSPALSRSH
RTGSVQTSPS STPVAGRRGR QLPQLPPKGT LDRKAGGKKL RSTVQRSTET GLAVEMRNWM
TRQASRESTD GSMNSYSSEG NLIFPGVRLA SDSQFSDFLD GLGPAQLVGR QTLATPAMGD
IQVGMMDKKG QLEVEIIRAR GLVVKPGSKT LPAPYVKVYL LDNGVCIACC KTKVARKTLE
PLYQQLSFE ESPQGKVLQI IVWGDYGRMD HKSFMGVAQI LLDELELSNM VIGWFKLFPP
SSLVDPTLAP LTRRASQSSL ESSTGPSYSR S

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 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

Product Details

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®): <ol style="list-style-type: none">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 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)

Target Details

Target:	RIMS2
Alternative Name:	RIMS2 (RIMS2 Products)
Background:	Regulating synaptic membrane exocytosis protein 2 (Rab-3-interacting molecule 2) (RIM 2) (Rab-3-interacting protein 3),FUNCTION: Rab effector involved in exocytosis. May act as scaffold protein. Plays a role in dendrite formation by melanocytes (PubMed:23999003). {ECO:0000269 PubMed:23999003}.
Molecular Weight:	160.4 kDa
UniProt:	Q9UQ26
Pathways:	Hormone Transport, Synaptic Vesicle Exocytosis

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
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Application Details

as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment:

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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)