

Datasheet for ABIN3136988

## Regulating Synaptic Membrane Exocytosis 1 (RIMS1) (AA 1-1463) protein (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	Regulating Synaptic Membrane Exocytosis 1 (RIMS1)
Protein Characteristics:	AA 1-1463
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

#### Product Details

Sequence: MSSAVGPRGP RPPTVPPPMQ ELPDLSHLTE EERNIIMAVM DRQKEEEEKE EAMLKCVVRD  
 MAKPAACKTP RNAESQPHQP PLNIFRCVCV PRKPSSEEGG PDRNWRLHQQ FESYKEQVRK  
 IGEEARRYQG EHKDDAPTCG ICHKTKFADG CGHLCSYCRT KFCARCGGRV SLRSNNEDKV  
 VMWVCNLCKR QQEILTKSGA WFFGSGPQQP SQDGTLSDTA TGAGSEVPRE K KARLQERSR  
 SQTPLSTAAV SSQDTASHGA PLDRNKGAEP SQQALGPEQK QASRSRSEPP RERKKAPGLS  
 EQNGKGGQKS ERKRVPKSV QPGEGTADER ERKERRETRR LEKGRSQDYP DRLEKREDGR  
 VAEDEKQRKE EEGVSTPEYT SCEDVELESE SVSEKGDLDY WLDAPATWHSR ETSPISHPV  
 TWQPSKEGDR LIGRVILNKR TTMPKESGAL LGLKVVGKGM TDLGRLGAFI TKVKKGSLAD  
 VVGHLAGDE VLEWNGKPLP GATNEEVYNI ILESKSEPQV EIIVSRPIGD IPRIPESSH  
 PLESSSSSFE SQKMERPSIS VISPTSPGAL KDAPQVLPQG LSVKLWYDKV GHQLIVNVLQ  
 ATDLPPRVDP RPRNPYVKMY FLPDRSDKSK RRTKTVKLL EPKWNQTFVY SHVHRRDFRE  
 RMLEITVWDQ PRVQDEESEF LGEILIELET ALLDDEPHWY KLQTHDESSL PLPQPSPFMP

RRHIHGESSS KKLQRSQRIS DSDISDYEVD DGIGVPPVG YRASARESKA TTLTVPEQQR  
TTHHRSRVS PHRGDDQGRP RSRLPNVPLQ RSLDEIHPTR RSRSPTRHHD ASRSLADHRS  
RHAESQYSSE PSELLMLPR AKRGRSAECL HMTSELQPSL DRARSASTNC LRPDTSLHSP  
ERERGRWSPS LARRRPASPR IQIQHASPEN DRHSRKSERS SIQKSRKGT ASDADRVLPP  
CLSRRGYAIP RATDQPVIKRG KHTTRSRSSE HSSIRTLCSM HHLAPGGSAP PSPLLTRTHR  
QGSPTQSPPA DTSFGSRRGR QLPQVPVRS SIEQASLVVE ERTRQMKMKV HRFKQTTGSG  
SSQELDHEQY SKYNIHKDQY RSCDNASAKS SDDSDVSDVSA ISRASSTSRL SSTFSMSEQS  
ERPRGRISSE TPKMQGRRMG TSGRAIKST SVSGEITYLE HNDGSQSDTA VGTVGAGGKK  
RRSSLSAKVV AIVSRRSRST SLSQTESGH KKLKSTIQRS TETGMAAEMR KMVRQPSRES  
TDGSINSYSS EGNLIFPGVR VGPDSQFSDF LDGLGPAQLV GRQTLATPAM GDIQIGMEDK  
KGQLEVEVIR ARSLTQKPGS KSTPAPYVKV YLLENGACIA KKKTRIARKT LDPLYQQSLV  
FDESPQGKVL QVIVWGDYGR MDHKCFMGVA QILLEELDLS SMVIGWYKLF PPSSLVDPTL  
TPLTRRASQS SLESSSGPPC IRS

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Rims1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use

## Product Details

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the Expsy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li><li>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.</li></ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

## Target Details

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Target:	Regulating Synaptic Membrane Exocytosis 1 (RIMS1)
Alternative Name:	Rims1 ( <a href="#">RIMS1 Products</a> )
Background:	Rab effector involved in exocytosis (PubMed:11797009). May act as scaffold protein that regulates neurotransmitter release at the active zone. Essential for maintaining normal probability of neurotransmitter release and for regulating release during short-term synaptic plasticity (PubMed:11797009). Plays a role in dendrite formation by melanocytes (By similarity). {ECO:0000250 UniProtKB:Q86UR5, ECO:0000269 PubMed:11797009}.
Molecular Weight:	164.1 kDa Including tag.
UniProt:	<a href="#">Q99NE5</a>
Pathways:	<a href="#">Synaptic Membrane</a> , <a href="#">Synaptic Vesicle Exocytosis</a> , <a href="#">Dicarboxylic Acid Transport</a> , <a href="#">Regulation of long-term Neuronal Synaptic Plasticity</a>

## Application Details

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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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher

## Application Details

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molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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: Unlimited (if stored properly)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process