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Datasheet for ABIN7551659

**SACM1L Protein (AA 1-587) (His tag)**

## Overview

Quantity:	1 mg
Target:	SACM1L
Protein Characteristics:	AA 1-587
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SACM1L protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat SACM1L Protein expressed in mammalian cells.
Sequence:	MATAAYEQLK LHITPEKFYV EACDDGADDV LTIDRVSTEV TLAVKKDVPP SAVTRPIFGI LGTIHLVAGN YLIVITKKIK VGEFFSHVWV KATDFDVLSY KKTMLHLTDI QLQDNKTFLA MLNHVLNVDG FYFSTTYDLT HTLQRLSNTS PEFQEMSLLE RADQRFVWNG HLLRELSAQP EVHRFALPVL HGFITMHSCS INGKYFDWIL ISRRSCFRAG VRYVYRGIDS EGHAANFVET EQIVHYNGSK ASFVQTRGSI PVFWSQRPNL KYKPLPQISK VANHMDGFQR HFDSQVVIYG KQVIINLINQ KGSEKPLEQT FATMVSSLGS GMMRYIAFDF HKECKNMRWD RLSILLDQVA EMQDELSYFL VDSAGQVVAN QEGVFRSNM DCLDRTNVIQ SLLARRSLQA QLQRLGVLHV GQKLEEQDEF EKIYKNAWAD NANACAKQYA GTGALKTDFT RTGKRTHLGL IMDGWNSMIR YYKNNFSDGF RQDSIDLFLG NYSVDELESH SPLSVPRDWK FLALPIIMVV AFSMCIICLL MAGDTWTETL AYVLFWGVAS IGTFIILYN GKDFVDAPRL VQKEKID <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different</b>

**complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### 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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

SACM1L

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### Alternative Name:

SACM1L ([SACM1L Products](#))

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### Background:

Phosphatidylinositol-3-phosphatase SAC1 (EC 3.1.3.64) (Phosphatidylinositol-4-phosphate phosphatase) (Suppressor of actin mutations 1-like protein),FUNCTION: Phosphoinositide phosphatase which catalyzes the hydrolysis of phosphatidylinositol 4-phosphate (PtdIns(4)P) (PubMed:24209621, PubMed:27044890, PubMed:29461204, PubMed:30659099). Can also catalyze the hydrolysis of phosphatidylinositol 3-phosphate (PtdIns(3)P) and has low activity towards phosphatidylinositol-3,5-bisphosphate (PtdIns(3,5)P2) (By similarity). Shows a very robust PtdIns(4)P phosphatase activity when it binds PtdIns(4)P in a 'cis' configuration in the cellular environment, with much less activity seen when it binds PtdIns(4)P in 'trans' configuration (PubMed:29461204, PubMed:24209621, PubMed:30659099). PtdIns(4)P phosphatase activity (when it binds PtdIns(4)P in 'trans' configuration) is enhanced in the presence of PLEKHA3 (PubMed:30659099). {ECO:0000250|UniProtKB:Q9ES21,

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## Target Details

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ECO:0000269|PubMed:24209621, ECO:0000269|PubMed:27044890,  
ECO:0000269|PubMed:29461204, ECO:0000269|PubMed:30659099}.

Molecular Weight: 67.0 kDa

UniProt: [Q9NTJ5](#)

Pathways: [Inositol Metabolic Process](#)

## 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.

Restrictions: For Research Use only

## Handling

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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