

Datasheet for ABIN3116131
SYVN1 Protein (AA 23-617) (rho-1D4 tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	SYVN1
Protein Characteristics:	AA 23-617
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYVN1 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: YYLKHQFYPT VVYLTkSSPS MAVLYIQAFV LVFLLGKVMG KVFFGQLRAA EMEHLLERSW
YAVTETCLAF TVFRDDFSR FVALFTLLL LKCFHWLAED RVDFMERSPN ISWLFHCRIV
SLMFLLGILD FLFVSHAYHS ILTRGASVQL VGFHEYAILM TMVLTIFIKY VLHSVDLQSE
NPWDNKAVYM LYTELFTGFI KVLLYMAFMT IMIKVHTFPL FAIRPMYLA RQFKKAVTDA
IMSRRAIRNM NTLYPDATPE ELQAMDNCI ICREEMVTGA KRLPCNHIFH TSCLRSWFQR
QQTCTCRMD VLRASLPAQS PPPPEPADQG PPPAPHPPL LPQPPNFPQG LLPFPFPGMF
PLWPPMGFPF PVPPPPSSGE AVAPPSTSA ALSRPSGAAT TTAAGTSATA ASATASGPGS
GSAPEAGPAP GFPFPPPWMG MPLPPFAFP PMPVPPAGFA GLTPEELRAL EGHQRHLEA
RLQSLRNIHT LLDAAMLQIN QYLTVLASLG PPRPATSVNS TEETATTVA AASSTSIPSS
EATTPTPGAS PPAPEMERPP APESVGTEEM PEDGEPDAAE LRRRLQKLE SPVAH

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

Product Details

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
 - Human SYVN1 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 the Expasy's protparam tool to determine the absorption coefficient of each protein.

- Purification:
- Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:
1. Membrane proteins are fractionated by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
 3. 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: >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

Target:	SYVN1
Alternative Name:	SYVN1 (SYVN1 Products)
Background:	<p>Acts as an E3 ubiquitin-protein ligase which accepts ubiquitin specifically from endoplasmic reticulum-associated UBC7 E2 ligase and transfers it to substrates, promoting their degradation. Component of the endoplasmic reticulum quality control (ERQC) system also called ER-associated degradation (ERAD) involved in ubiquitin-dependent degradation of misfolded endoplasmic reticulum proteins. Also promotes the degradation of normal but naturally short-lived proteins such as SGK. Protects cells from ER stress-induced apoptosis. Protects neurons from apoptosis induced by polyglutamine-expanded huntingtin (HTT) or unfolded GPR37 by promoting their degradation. Sequesters p53/TP53 in the cytoplasm and promotes its degradation, thereby negatively regulating its biological function in transcription, cell cycle regulation and apoptosis. {ECO:0000269 PubMed:12459480, ECO:0000269 PubMed:12646171, ECO:0000269 PubMed:12975321, ECO:0000269 PubMed:14593114, ECO:0000269 PubMed:16289116, ECO:0000269 PubMed:16847254, ECO:0000269 PubMed:17059562, ECO:0000269 PubMed:17141218, ECO:0000269 PubMed:17170702, ECO:0000269 PubMed:22607976}.</p>
Molecular Weight:	66.7 kDa Including tag.
UniProt:	Q86TM6
Pathways:	ER-Nucleus Signaling, Negative Regulation of intrinsic apoptotic Signaling

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 guarantee though.
Comment:	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 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

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



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