

Datasheet for ABIN3135892

## SYNM Protein (AA 1-1561) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	SYNM
Protein Characteristics:	AA 1-1561
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYNM protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence: MLSWRLQ TGS EKAELQELNA RLYDYVCRVR ELERENLLLE EELRSRLSRE DRWAEDQALY  
AEEARSLRQQ LDELNWSTRAL AGERDALRR ELLELQREGV EAGTARSRLD AELGAQRREL  
EEALGARAAL EALLGRLETE RRDLDAAHER QVRDLRARRA SLTMHFRARA TSPAAPPPRL  
RDVHDSYALL VAESWRESVQ LYEDEVRELE QALRRGQESR LQAEDEARLC AQEADALRNQ  
ALELEQLRAR LEDELLRMRE EYGMQAEERQ RVIDSLEDEK EALTLAMADR LRDYQELLQV  
KTGLSLEVAT YRALLEGESN PEILIWTENI ENVPQEPRNT SYRYTNSVLQ RKNEKNLFPR  
R KTPWAAVNH SSASYSNWPG HLDSQTTTAV GSAARRGLLT SRHSSATTS GQKPLEKTI  
SSRANLRPVT PTHGFLRNTD AQMKTLP HRS KVEGTGDTHA RRATESVITR ESYRGHQGHV  
AAGAVSSTPS NERTVILGKK LEAQATKEQE RDRSGVIRIK PEEKMFDSKE KASEERNLRW  
EELTKLDRDA RKRESRHLRD EAREKEALKE RSVKEREVPI SLEVSRGSRA EVSTIHLQSP  
GRKDVSHSGG REAETKETRF RLDTQDTASS LQSDSTTETI AESIVTTILK QFTQSPGAE  
EATSFPDTKV TYVDRKEFPG DGKTKTEIVV ESKLTDVVDV SDEAGLDYLL SKDVKEVGLK

GKSTETMIGE MINLGLKGRE GRAKVVNVEI VEEPMSYIGG GKIDFSTPFQ VEEVDDVSPS  
PKGFVEEEDG EGETHMAFSM RPHQTKQPQG TIPHVEEVTE AGDSEGEQSY FVSTPDEYPG  
GHDREDDGSV YGQIHIEEES TIRYSWQDEI AQGTWRRKMR GDVGGKPKVK VLEVPALSLG  
GAIGSAHLKE EASGELRAEP TVIEKEIKIP HEFHTSIKGV FSSEPRHQLV EVIGQLEETL  
PERMKEELSA LTRQSQGESG SVSVDVKKVQ SAAGGSVTLM AEVNLSQTV DADQLDLEQLS  
RDEAGEIERA VESVVRESLA KRSSPVPRSP DREDGEEVPA GGILFKRWAT RELYSPSGER  
DDAGQVSPSS DQRVTQGPVS ATVEVTSPTG FVQSHVLEDV SQSVRHVKLG PTEMWRTEQV  
TFGGPTAQVV EVSGDFSEAV SSEGASRSVR HITLGPHQSQ VSTEVIFRGS VPTWQETGDT  
EKPGPVVLSV GADISGSGRM PGSERSHTEK EIRFQGPVSG TAQVGGNFAT EESVGSQTFV  
RSLQLGPKEG FREEIQFIAP IPDKVGWEE DSEHTKVSLE RATSQRIDI VPQRYLASKQ  
MAPQTLEFRD SEDMVMVEGS AGTIQATHNF TSDREILQNK ENTFRVISG SPPDSVGDGTG  
AEVTANVSRS FRHIQIGPTE EEPSEYFVTG RPSKTFVLD GSVASPLVG GADGGSTPCR  
IALGPKETSF TFQMDLSDTR AIRSWTRDTG SEVEAHGVSH RGGWRIAHSR DERVASTGSG  
ASPGDAHQAP GEKGTEQAGF DKTVQLQRMV DQRSVASDEK KVALLYLDNE EEEEEEGEGW F

**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 Synm Protein (raised in E. Coli) 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.

## Product Details

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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:** Two step purification of proteins expressed in bacterial culture:

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.
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:** >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:** SYNM

**Alternative Name:** Synm ([SYNM Products](#))

**Background:** Type-VI intermediate filament (IF) which plays an important cytoskeletal role within the muscle cell cytoskeleton. It forms heteropolymeric IFs with desmin and/or vimentin, and via its interaction with cytoskeletal proteins alpha-dystrobrevin, dystrophin, talin-1, utrophin and vinculin, is able to link these heteropolymeric IFs to adherens-type junctions, such as to the costameres, neuromuscular junctions, and myotendinous junctions within striated muscle cells (By similarity). {ECO:0000250, ECO:0000269|PubMed:15265691}.

**Molecular Weight:** 174.2 kDa Including tag.

**UniProt:** [Q70IV5](#)

## 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.

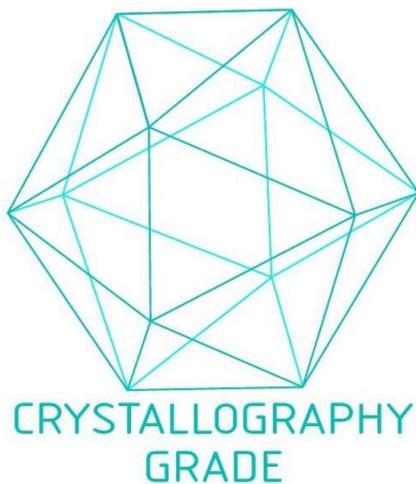
Storage: -80 °C

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