

Datasheet for ABIN3116042

**TMPRSS9 Protein (AA 1-1059) (rho-1D4 tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	TMPRSS9
Protein Characteristics:	AA 1-1059
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TMPRSS9 protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MEPTVADVHL VPRTTKEVPA LDAACCRAAS IGVVATSLVV LTLGVLLAFL STQGFHVDHT AELRGIRWTS SLRRETSYH RTLTPLEAL LHFLLRPLQT LSLGLEEELL QRGIRARLRE HGISLAAYGT IVSAELTGRH KGPLAERDFK SGRCPGNSFS CGNSQCVTKV NPECDDQEDC SDGSDEAHCE CGLQPAWRMA GRIVGGMEAS PGEFPWQASL RENKEHFCGA AIINARWLVS AAHCFNEFQD PTKWVAYVGA TYLSGSEAST VRAQVVQIVK HPLYNADTAD FDVAVLELTS PLPFGRHIQP VCLPAATHIF PPSKKCLISG WGYLKEDFLV KPEVLQKATV ELLDQALCAS LYGHSLTDRM VCAGYLDGKV DSCQGDGGP LVCEEPSGRF FLAGIVSWG I GCAEARRPGV YARVTRLRDW ILEATTKASM PLAPTMAPAP AAPSTAWPTS PESPVVSTPT KSMQALSTVP LDWVTVPKLQ ECGARPAMEK PTRVVGFGA ASGEVPWQVS LKEGSRHFCG ATVVGDRWLL SAAHCFNHTK VEQVRAHLGT ASLLGLGGSP VKIGLRRVVL HPLYNPGILD FDLAVLELAS PLAFNKYIQP VCLPLAIQKF PVGRKCMISG WGNTQEGNAT KPELLQKASV GIIDQKTCSV LYNFSLTDRM ICAGFLEGKV DSCQGDGGP LACEEAPGVF YLAGIVSWG I GCAQVKKPGV
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YTRITRLKGW ILEIMSSQPL PMSPPSTTRM LATTSPRTTA GLTVPGATPS RPTPGAASRV  
TGQPANSTLS AVSTTARGQT PFPDAPEATT HTQLPDCGLA PAALTRIVGG SAAGRGEWPW  
QVSLWLRRE HRCGAVLVAE RWLLSAAHCF DVYGDPKQWA AFLGTPFLSG AEGQLERVAR  
IYKHPFYNLY TLDYDVALLE LAGPVRRSRL VRPICLPEPA PRPPDGTRCV ITGWGVSREG  
GSMARQLQKA AVRLLSEQTC RRFYPVQISS RMLCAGFPQG GVDSCSGDAG GPLACREPSG  
RWVLTGVTSW GYGCGRPHFP GYTRVAAVR GWIGQHIQE

**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.
- Human TMPRSS9 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.

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### 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

## Product Details

fractions are analyzed by Western blot.

3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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: TMPRSS9

Alternative Name: TMPRSS9 ([TMPRSS9 Products](#))

Background: Serase-1 and serase-2 are serine proteases that hydrolyze the peptides N-t-Boc-Gln-Ala-Arg-AMC and N-t-Boc-Gln-Gly-Arg-AMC. In contrast, N-t-Boc-Ala-Phe-Lys-AMC and N-t-Boc-Ala-Pro-Ala-AMC are not significantly hydrolyzed.

Molecular Weight: 115.2 kDa Including tag.

UniProt: [Q7Z410](#)

## 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

Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	Unlimited (if stored properly)
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## Images



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