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# TLR9 Protein (AA 26-1032) (rho-1D4 tag)





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### Overview

Quantity:	1 mg
Target:	TLR9
Protein Characteristics:	AA 26-1032
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TLR9 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

### **Product Details**

Sequence:

LGTLPAFLPC ELKPHGLVDC NWLFLKSVPR FSAAASCSNI TRLSLISNRI HHLHNSDFVH
LSNLRQLNLK WNCPPTGLSP LHFSCHMTIE PRTFLAMRTL EELNLSYNGI TTVPRLPSSL
VNLSLSHTNI LVLDANSLAG LYSLRVLFMD GNCYYKNPCT GAVKVTPGAL LGLSNLTHLS
LKYNNLTKVP RQLPPSLEYL LVSYNLIVKL GPEDLANLTS LRVLDVGGNC RRCDHAPNPC
IECGQKSLHL HPETFHHLSH LEGLVLKDSS LHTLNSSWFQ GLVNLSVLDL SENFLYESIT
HTNAFQNLTR LRKLNLSFNY RKKVSFARLH LASSFKNLVS LQELNMNGIF FRLLNKYTLR
WLADLPKLHT LHLQMNFINQ AQLSIFGTFR ALRFVDLSDN RISGPSTLSE ATPEEADDAE
QEELLSADPH PAPLSTPASK NFMDRCKNFK FTMDLSRNNL VTIKPEMFVN LSRLQCLSLS
HNSIAQAVNG SQFLPLTNLQ VLDLSHNKLD LYHWKSFSEL PQLQALDLSY NSQPFSMKGI
GHNFSFVTHL SMLQSLSLAH NDIHTRVSSH LNSNSVRFLD FSGNGMGRMW DEGGLYLHFF
QGLSGLLKLD LSQNNLHILR PQNLDNLPKS LKLLSLRDNY LSFFNWTSLS FLPNLEVLDL
AGNQLKALTN GTLPNGTLLQ KLDVSSNSIV SVVPAFFALA VELKEVNLSH NILKTVDRSW

FGPIVMNLTV LDVRSNPLHC ACGAAFVDLL LEVQTKVPGL ANGVKCGSPG QLQGRSIFAQ DLRLCLDEVL SWDCFGLSLL AVAVGMVVPI LHHLCGWDVW YCFHLCLAWL PLLARSRRSA QTLPYDAFVV FDKAQSAVAD WVYNELRVRL EERRGRRALR LCLEDRDWLP GQTLFENLWA SIYGSRKTLF VLAHTDRVSG LLRTSFLLAQ QRLLEDRKDV VVLVILRPDA HRSRYVRLRQ RLCRQSVLFW PQQPNGQGGF WAQLSTALTR DNRHFYNQNF CRGPTAE

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

### Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Tlr9 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 receival 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 fractioned 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

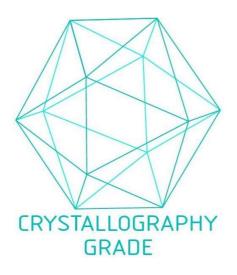
## **Product Details**

Troduct Details	
	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:	TLR9
Alternative Name:	TIr9 (TLR9 Products)
Background:	Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific to microorganisms. TLR9 is a nucleotide-sensing TLR which is activated by unmethylated cytidine-phosphate-guanosine (CpG) dinucleotides. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Plays a role in defense against systemic mouse cytomegalovirus infection. Controls lymphocyte response to Helicobacter infection. {ECO:0000269 PubMed:14993594, ECO:0000269 PubMed:17474149}.
Molecular Weight:	114.8 kDa Including tag.
UniProt:	Q9EQU3
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Toll-Like Receptors Cascades
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 gurantee 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 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