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Datasheet for ABIN3134545  
**TLR8 Protein (AA 24-1032) (rho-1D4 tag)**

### Overview

Quantity:	1 mg
Target:	TLR8
Protein Characteristics:	AA 24-1032
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TLR8 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

### Product Details

Sequence: IFHKANYSR S YPCDEIRHNS LVIAECNHRQ LHEVPQTIGK YVTNIDLSDN AITHITKESF  
QKLQNLTKID LNHNAKQQHP NENKNGMNIT EGALLSLRNL TVLLEDNQL YTIPAGLPES  
LKELSLIQNN IFQVTKNNTF GLRNLERLYL GWNCYFKCNQ TFKVEDGAFK NLIHLKVLSL  
SFNNLFYVPP KLPSSLRKLF LSNAKIMNIT QEDFKLENL TLLDLSGNCP RCYNAPFPCT  
PCKENSSIHI HPLAFQSLTQ LLYLNLSSSTS LRTIPSTWFE NLSNLKELHL EFNLYVQEIA  
SGAFLTKLPS LQILDLSFNF QYKEYLQFIN ISSNFSKLRS LKKLHLRGYV FRELKKKHFE  
HLQSLPNLAT INLGINFIEK IDFKAFQNF S KLDVIYLSGN RIASVLDGTD YSSWRNRLRK  
PLSTDDDEFD PHVNFYHSTK PLIKPQCTAY GKALDLSLNN IFIIGKSQFE GFQDIACLNL  
SFNANTQVFN GTEFSSMPHI KYLDLTNNRL DFDDNNAFSD LHDLEVLDLS HNAHYFSIAG  
VTHRLGFIQN LINLRVLNLS HNGIYTLTEE SELKSISLKE LVFSGNRLDR LWNANDGKYW  
SIFKSLQNLI RLDLSYNNLQ QIPNGAFLNL PQSLQELLIS GNKLRFFNWT LLQYFPHLHL  
LDLSRNELYF LPNCLSKFAH SLETLLLSHN HFSHLPSGFL SEARNLVHLD LSFNTIKMIN

KSSLQTKMKT NLSILELHGN YFDCTCDISD FRSWLDENLN ITIPKLVNVI CSNPGDQKSK  
SIMSLDLTTC VSDTTAAVLF FLTFLTTSMV MLAALVHHLF YWDVWFIYHM CSAKLGKGYRT  
SSTSQTFYDA YISYDTKDAS VTDWVINELR YHLEESDKS VLLCLEERDW DPGLPIIDNL  
MQSINQSKKT IFVLTKKYAK SWNFKTAFYL ALQRLMDENM DVIIFILLEP VLQYSQYLRL  
RQRICKSSIL QWPNNPKAEN LFWQSLKNVV LTENDSRVDD LYIDSIRQY

**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 Tlr8 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 fractions are analyzed by Western blot.
3. Protein containing fractions of the best purification are subjected to second purification step

## Product Details

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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

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Target: TLR8

Alternative Name: Tlr8 ([TLR8 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. Acts via MYD88 and TRAF6, leading to NF-kappa-B. activation, cytokine secretion and the inflammatory response (By similarity). {ECO:0000250}.

Molecular Weight: 118.0 kDa Including tag.

UniProt: [P58682](#)

Pathways: [TLR Signaling](#), [Activation of Innate immune Response](#), [Toll-Like Receptors Cascades](#)

## 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 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

## Handling

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Buffer: 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

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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)