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TLR1 Protein (AA 26-795) (rho-1D4 tag)





Overview

Quantity:	1 mg
Target:	TLR1
Protein Characteristics:	AA 26-795
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TLR1 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

EECELIIKRP NANLTRVPKD LPLQTTTLDL SQNNISELQT SDILSLSKLR VLIMSYNRLQ
YLNISVFKFN TELEYLDLSH NELKVILCHP TVSLKHLDLS FNAFDALPIC KEFGNMSQLQ
FLGLSGSRVQ SSSVQLIAHL NISKVLLVLG DAYGEKEDPE SLRHVSTETL HIVFPSKREF
RFLLDVSVST TIGLELSNIK CVLEDQGCSY FLRALSKLGK NLKLSNLTLN NVETTWNSFI
NILQIVWHTP VKYFSISNVK LQGQLAFRMF NYSDTSLKAL SIHQVVTDVF SFPQSYIYSI
FANMNIQNFT MSGTHMVHML CPSQVSPFLH VDFTDNLLTD MVFKDCRNLV RLKTLSLQKN
QLKNLENIIL TSAKMTSLQK LDISQNSLRY SDGGIPCAWT QSLLVLNLSS NMLTGSVFRC
LPPKVKVLDL HNNRIMSIPK DVTHLQALQE LNVASNSLTD LPGCGAFSSL SVLVIDHNSV
SHPSEDFFQS CQNIRSLTAG NNPFQCTCEL RDFVKNIGWV AREVVEGWPD SYRCDYPESS
RGTALRDFHM SPLSCDTVLL TVTIGATMLV LAVTGAFLCL YFDLPWYVRM LCQWTQTRHR
ARHIPLEELQ RNLQFHAFVS YSGHDSAWVK NELLPNLEKD DIQICLHERN FVPGKSIVEN
IINFIEKSYK SIFVLSPHFI QSEWCHYELY FAHHNLFHEG SDNLILILLA PIPQYSIPTN

YHKLKTLMSR RTYLEWPTEK NKHGLFWANL RASINVKLVN QAEGTCYTQQ

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 Tlr1 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 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

Product Details Endotoxin Level: Protein is endotoxin-free. Grade: Crystallography grade Target Details Target: TIR1 Alternative Name: Tlr1 (TLR1 Products) Background: Participates in the innate immune response to microbial agents. Specifically recognizes diacylated and triacylated lipopeptides. Cooperates with TLR2 to mediate the innate immune response to bacterial lipoproteins or lipopeptides. Forms the activation cluster TLR2:TLR1:CD14 in response to triacylated lipopeptides, this cluster triggers signaling from the cell surface and subsequently is targeted to the Golgi in a lipid-raft dependent pathway. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (By similarity). Acts as a coreceptor for M.tuberculosis lipoproteins LprG, LpqH and PhoS1 (pstS1), in conjunction with TLR2 and for some but not all lipoproteins CD14 and/or CD36. The lipoproteins act as agonists to modulate antigen presenting cell functions in response to the pathogen (PubMed:19362712). {ECO:0000250|UniProtKB:Q15399, ECO:0000269|PubMed:19362712}. Molecular Weight: 89.0 kDa Including tag. UniProt: Q9EPQ1 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

For Research Use only

Restrictions:

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.

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

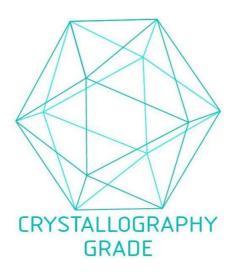


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process