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TLR6 Protein (AA 32-796) (rho-1D4 tag)





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Overview

Quantity:	1 mg
Target:	TLR6
Protein Characteristics:	AA 32-796
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TLR6 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

NEFAVDKSKR GLIHVPKDLP LKTKVLDMSQ NYIAELQVSD MSFLSELTVL RLSHNRIQLL
DLSVFKFNQD LEYLDLSHNQ LQKISCHPIV SFRHLDLSFN DFKALPICKE FGNLSQLNFL
GLSAMKLQKL DLLPIAHLHL SYILLDLRNY YIKENETESL QILNAKTLHL VFHPTSLFAI
QVNISVNTLG CLQLTNIKLN DDNCQVFIKF LSELTRGSTL LNFTLNHIET TWKCLVRVFQ
FLWPKPVEYL NIYNLTIIES IREEDFTYSK TTLKALTIEH ITNQVFLFSQ TALYTVFSEM
NIMMLTISDT PFIHMLCPHA PSTFKFLNFT QNVFTDSIFE KCSTLVKLET LILQKNGLKD
LFKVGLMTKD MPSLEILDVS WNSLESGRHK ENCTWVESIV VLNLSSNMLT DSVFRCLPPR
IKVLDLHSNK IKSVPKQVVK LEALQELNVA FNSLTDLPGC GSFSSLSVLI IDHNSVSHPS
ADFFQSCQKM RSIKAGDNPF QCTCELREFV KNIDQVSSEV LEGWPDSYKC DYPESYRGSP
LKDFHMSELS CNITLLIVTI GATMLVLAVT VTSLCIYLDL PWYLRMVCQW TQTRRRARNI
PLEELQRNLQ FHAFISYSEH DSAWVKSELV PYLEKEDIQI CLHERNFVPG KSIVENIINC
IEKSYKSIFV LSPNFVQSEW CHYELYFAHH NLFHEGSNNL ILILLEPIPQ NSIPNKYHKL

KALMTQRTYL QWPKEKSKRG LFWANIRAAF NMKLTLVTEN NDVKS

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.
- Human TLR6 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 Protein is endotoxin-free. Endotoxin Level: Grade: Crystallography grade Target Details Target: TIR6 Alternative Name: TLR6 (TLR6 Products) Background: Participates in the innate immune response to Gram-positive bacteria and fungi. Specifically recognizes diacylated and, to a lesser extent, triacylated lipopeptides (PubMed:20037584). In response to diacylated lipopeptides, forms the activation cluster TLR2:TLR6:CD14:CD36, this cluster triggers signaling from the cell surface and subsequently is targeted to the Golgi in a lipid-raft dependent pathway (PubMed:16880211). Acts via MYD88 and TRAF6, leading to NFkappa-B activation, cytokine secretion and the inflammatory response. Recognizes mycoplasmal macrophage-activating lipopeptide-2kD (MALP-2), soluble tuberculosis factor (STF), phenol-soluble modulin (PSM) and B.burgdorferi outer surface protein A lipoprotein (OspA-L) cooperatively with TLR2 (PubMed:11441107). In complex with TLR4, promotes sterile inflammation in monocytes/macrophages in response to oxidized low-density lipoprotein (oxLDL) or amyloid-beta 42. In this context, the initial signal is provided by oxLDL- or amyloidbeta 42-binding to CD36. This event induces the formation of a heterodimer of TLR4 and TLR6, which is rapidly internalized and triggers inflammatory response, leading to the NF-kappa-Bdependent production of CXCL1, CXCL2 and CCL9 cytokines, via MYD88 signaling pathway, and CCL5 cytokine, via TICAM1 signaling pathway, as well as IL1B secretion (PubMed:11441107, PubMed:20037584). {ECO:0000269|PubMed:11441107, ECO:0000269|PubMed:16880211, ECO:0000269|PubMed:20037584}. Molecular Weight: 89.5 kDa Including tag. UniProt: Q9Y2C9 Pathways: TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of

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.

Bacterial Origin, Toll-Like Receptors Cascades

Application Details

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

Images

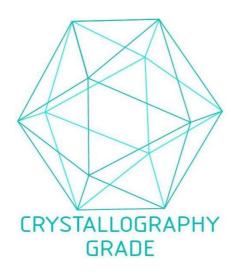


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process