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TLR6 Protein (AA 32-586) (His tag)





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Overview

Quantity:	1 mg
Target:	TLR6
Protein Characteristics:	AA 32-586
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TLR6 protein is labelled with His 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 CNITL

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 protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

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:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. 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:	TLR6
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 NF-
	kappa-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 amyloid-
	beta 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-B-
	dependent 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:	64.6 kDa Including tag.
UniProt:	Q9Y2C9
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of
	Bacterial Origin, 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 gurantee
	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 Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

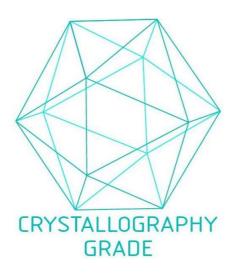


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process