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CD14 Protein (CD14) (AA 16-336) (His tag)



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Quantity:	1 mg
Target:	CD14
Protein Characteristics:	AA 16-336
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD14 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:

SPAPPEPCEL DEESCSCNFS DPKPDWSSAF NCLGAADVEL YGGGRSLEYL LKRVDTEADL GQFTDIIKSL SLKRLTVRAA RIPSRILFGA LRVLGISGLQ ELTLENLEVT GTAPPPLLEA TGPDLNILNL RNVSWATRDA WLAELQQWLK PGLKVLSIAQ AHSLNFSCEQ VRVFPALSTL DLSDNPELGE RGLISALCPL KFPTLQVLAL RNAGMETPSG VCSALAAARV QLQGLDLSHN SLRDAAGAPS CDWPSQLNSL NLSFTGLKQV PKGLPAKLSV LDLSYNRLDR NPSPDELPQV

GNLSLKGNPF LDSESHSEKF N

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 Cd14 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:

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: CD14

Alternative Name: Cd14 (CD14 Products)

Background: Coreceptor for bacterial lipopolysaccharide. In concert with LBP, binds to monomeric

Buffer:

lipopolysaccharide and delivers it to the LY96/TLR4 complex, thereby mediating the innate		
immune response to bacterial lipopolysaccharide (LPS) (PubMed:16148141). Acts via MyD88,		
TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory		
response (PubMed:8612135, PubMed:15895089). Acts as a coreceptor for TLR2:TLR6		
heterodimer in response to diacylated lipopeptides and for TLR2:TLR1 heterodimer in response		
to triacylated lipopeptides, these clusters trigger signaling from the cell surface and		
subsequently are targeted to the Golgi in a lipid-raft dependent pathway (By similarity). Acts as		
an accessory receptor for M.tuberculosis lipoproteins LprA, LprG and LpqH, in conjunction with		
coreceptors TLR2 and TLR1. The lipoproteins act as agonits to modulate antigen presenting		
cell functions in response to the pathogen (PubMed:19362712). Binds electronegative LDL		
(LDL(-)) and mediates the cytokine release induced by LDL(-) (By similarity).		
{ECO:0000250 UniProtKB:P08571, ECO:0000269 PubMed:15895089,		
ECO:0000269 PubMed:16148141, ECO:0000269 PubMed:19362712,		
ECO:0000269 PubMed:21821728, ECO:0000269 PubMed:8612135}.		

Molecular Weight:	35.6 kDa Including tag.
UniProt:	P10810
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

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

Handling

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

Images

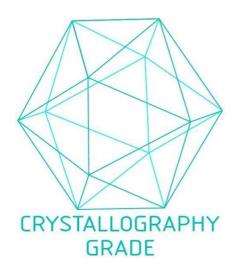


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process