

CD14 recombinant protein

Recombinant human CD14 protein

CATALOG # AAA48423	HOST HEK293	APPLICATIONS SDS-Page
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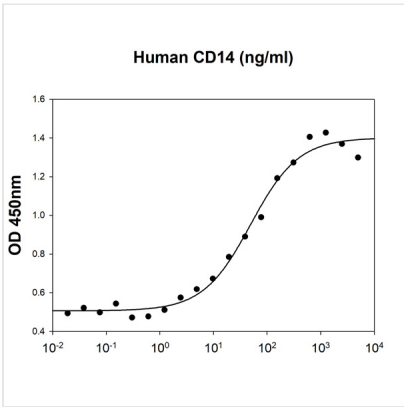
PRODUCT SYNONYMS

CD14; Recombinant human CD14 protein; monocyte differentiation antigen CD14; CD14 molecule; Myeloid cell-specific leucine-rich glycoprotein; CD14 recombinant protein

PRODUCT SPECIFICATIONS

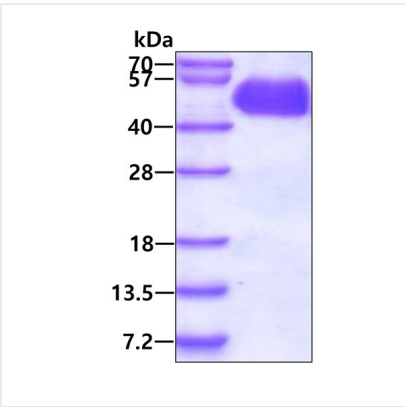
Host	HEK293
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	1mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	20-344aa
Sequence	TTPEPCELDD EDFRCVCNFS EPQPDWSEAF QCVSAVEVEI HAGGLNLEPF LKRVDADADP RQYADTVKAL RVRRLTVGAA QVPAQLLVGA LRVLAYSRK ELTLEDLKIT GTMPPLPLEA TGLALSSLRL RNVSWATGRS WLAELQQWLK PGLKVLIAQ AHSPAFSCEQ VRAFPALTSI DLSDNPGLGE RGLMAALCPH KFPAIQNLAL RNTGMETPTG VCAALAAAGV QPHSLDLSHN SLRATVNPSA PRCLMWSSALN SLNLSFAGLE QVPKGLPAKL RVLDLSCNRL NRAPQPDELP EVDNLTL DGN PFLVPGTALP HEGSM
Applicable Applications for CD14 recombinant protein	Bioactivity, SDS-PAGE
Species	Human
Tag	His-Tag
Predicted Nterm	Thr 20
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Bioactivity	Measured by its ability to enhance IL-8 secretion using THP?1 human acute monocytic leukemia cells in the presence of LPS. The ED50 range <= 100 ng/ml.
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity

Human CD14 enhance the IL-8 secretion of the THP?1 human acute monocytic leukemia cells in the presence of LPS. The ED50 range



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for CD14 recombinant protein	CD14, also known as monocyte differentiation antigen CD14, is a member of the eucine-rich repeat (LRR) proteins family. It exists in two forms, one anchored to the membrane by a GPI-tail (mCD14), the other a soluble form (sCD14). It is a surface antigen that is preferentially expressed on monocytes/macrophages. It cooperates with other proteins to mediate the innate immune response to bacterial lipopolysaccharide(LPS). It acts as a co-receptor (along with TLR4 and MD-2) and helps to detect bacteria in the body by binding LPS, a pathogen-associated molecular pattern (PAMP). Recombinant human CD14, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for CD14 recombinant protein	Immunology
References	Kelley S.L., et al (2013) J. Immunol. 190:1304-1311.; Setoguchi M., et al (1989) Biochim. Biophys. Acta 1008:213-222.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	291575165
NCBI GeneID	929
NCBI Accession #	NP_001167576.1
NCBI GenBank Nucleotide #	NM_001174105.1
UniProt Accession #	P08571; Q53XT5; Q96FR6; Q96L99; Q9UNS3
Molecular Weight	40,076 Da
NCBI Official Full Name	monocyte differentiation antigen CD14
NCBI Official Synonym Full Names	CD14 molecule
NCBI Official Symbol	CD14
NCBI Protein Information	monocyte differentiation antigen CD14
UniProt Protein Name	Monocyte differentiation antigen CD14
UniProt Gene Name	CD14
UniProt Entry Name	CD14_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cd14-recombinant-protein-hek293-bioactivity-sds-page/48423>