

Recombinant Human CD14, His-tagged

Cat. No. CD14-204H Lot. No. (See product label)

SPECIFICATION

Product Overview	CD14, 20- 349aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	20- 349aa
Description	CD14 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. Alternative splicing results in multiple transcript variants encoding the same protein. Recombinant human CD14 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol 0.15M NaCl, 1mM DTT
Molecular Mass	37.9 kDa (353aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSTTPEPCE LDEDFRCVC NFSEPQPDWS EAFQCVSAVE VEIHAGGLNL EPFLKRVDAD ADPRQYADTV KALRVRRLTV GAAQVPAQLL VGALRVLAYS RLKELTLEDL KITGTMPLP LEATGLALSS LRLRNVSAT GRSWLAELQQ WLKPLKVL IAQAHSFAFS CEQVRAFPAL TSLDLSDNPG LGERGLMAAL CPHKFPAIQN LALRNTGMET PTGVCAALAA

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AGVQPHSLDL SHNSLRATVN PSAPRCMWSS ALNSLNLSFA GLEQVPKGLP
AKLRVLDLSC NRLNRAPQPD ELPEVDNLT L DGNPFLVPGT ALPHEGSMNS GVV

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [CD14 CD14 molecule \[Homo sapiens \]](#)

Official Symbol CD14

Synonyms CD14; CD14 molecule; CD14 antigen; monocyte differentiation antigen CD14; myeloid cell-specific leucine-rich glycoprotein;

Gene ID [929](#)

mRNA Refseq [NM_000591](#)

Protein Refseq [NP_000582](#)

MIM [158120](#)

UniProt ID [P08571](#)

Chromosome Location 5q22-q32

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Pathway

Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; LPS transferred from LBP carrier to CD14, organism-specific biosystem;

Function

lipopolysaccharide binding; lipoteichoic acid binding; opsonin receptor activity; peptidoglycan receptor activity;

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