

Recombinant Human CD14, His-tagged

Cat. No. CD14-28H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CD14 Human Recombinant produced by mammalian expression system in human cells is a single polypeptide chain containing 341 amino acids (20-352). CD14 is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.
Species	Human
Source	HEK293
ProteinLength	20-352 a.a.
Description	The protein encoded by this gene 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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. CD14 was lyophilized from a 0.2 µM filtered solution of 20mM PB and 150mM NaCl, PH 7.4.
AA Sequence	TTPEPCELDDEDFRCVCNFSEPQPDWSEAFQCVSAVEVEIHAGGLNLEPFLKRVDA DADPRQYADTVKALRVRRLLTVGAAQVPAQLLVGALRVLAYSRKELTLEDLKITGTM PPLPLEATGLALSSLRLRNVSATGRSWLAELQQWLK PGLKVLSIAQAHSPAFCSE QVRAFPALTSLDLSNPNGLGERGLMAALCPHKFPAIQNLALRNTGMETPTGVCAAL AAAGVQPHSLDLSHNSLRATVNPSPAPRCMWSSALNSLNSFAGLEQVPKGLPAKLR VLDLSCNRLNRAPQPDELP EVDNLTLTGDPFLVPGTALPHEGSMNSGVVPACVDH

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Purity	Greater than 95% as determined by SDS-PAGE.
Stability	Lyophilized CD14 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CD14 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized CD14 in 1xPBS to a concentration no less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	CD14 CD14 molecule [Homo sapiens (human)]
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	5q31.1

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Location	
Pathway	Activation of IRF3/IRF7 mediated by TBK1/IKK epsilon; Hematopoietic cell lineage; IKK complex recruitment mediated by RIP1
Function	lipopolysaccharide binding; lipoteichoic acid binding; peptidoglycan receptor activity

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