

Recombinant Human CD14, His-tagged

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

SPECIFICATION

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|-------------------------|---|
| 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 | TTPEPCELDDDFRCVCFNFSEPPQDWSEAFQCVSVEVEIHAGGLNLEPFLKRVDA DADPRQYADTVKALRVRRLLTVGAAQVPAQLLVGALRVLAYSRLKELTLEDLKITGTM PPLPLEATGLALSSLRLRNVSATGRSWLAELQQWLK PGLKVLSIAQAHSPAFSCE QVRAFPALTSLDLSDNPGLGERGLMAALCPHKFPAIQNLALRNTGMETPTGVCAAL AAAGVQPHSLDLSHNSLRATVNPSPAPRCMWSSALNSLNSFAGLEQVPKGLPAKLR VLDLSCNRLNRAPQPDELP EVDNLTLDGNPFLVPGTALPHEGSMNSGVVPACVDH |

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| | |
|-----------------------|---|
| | HHHHH |
| 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 [<i>Homo sapiens</i> (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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