

## Recombinant Human CD14 Protein, Fc-tagged

**Cat. No.** CD14-157H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human CD14 protein with Fc tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 375                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | 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, and to viruses. This gene has been identified as a target candidate in the treatment of SARS-CoV-2-infected patients to potentially lessen or inhibit a severe inflammatory response. Alternative splicing results in multiple transcript variants encoding the same protein. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 67.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MERASCLLLLLPLVHVSATTPEPCELDDEDFRCVCNFSEPQPDWSEAFQCVSAVE<br>VEIHAGGLNLEPFLKRVDADADPRQYADTVKALRVRRLLTVGAAQVPAQLLVGALRVL<br>AYSRLKELTLEDLKITGMTPLPLEATGLALSSLRLRNVSWSATGRSWLAELQQWLKP<br>GLKVLSIAQAHSPAFCSEQVRAFPALTSLDLSDNPGLGERGLMAALCPHKFPAIQNL<br>ALRNTGMETPTGVCAALAAAGVQPHSLDLSHNSLRATVNPSAPRCMWSSALNSLNL<br>SFAGLEQVPKGLPAKLRLVLDLSCNRLNRAPQPDELPEVDNLTLDGNPFLVPGTALPH                                                                                                                               |

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|                       |                                                                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | EGSMNSGVVPACARSTLSVGVSGLVLLQGARGFA                                                                                                                                                                                                                                          |
| <b>Purity</b>         | > 98%                                                                                                                                                                                                                                                                       |
| <b>Applications</b>   | WB; ELISA; FACS; FC                                                                                                                                                                                                                                                         |
| <b>Stability</b>      | This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.                                                                      |
| <b>Storage</b>        | At -20 centigrade.                                                                                                                                                                                                                                                          |
| <b>Concentration</b>  | 1 mg/mL                                                                                                                                                                                                                                                                     |
| <b>Storage Buffer</b> | PBS (pH 7.4-7.5). Sterile-filtered colorless solution.                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance. |

## GENE INFORMATION

|                        |                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CD14 CD14 molecule [ Homo sapiens (human) ]                                                                                |
| <b>Official Symbol</b> | CD14                                                                                                                       |
| <b>Synonyms</b>        | CD14; CD14 molecule; CD14 antigen; monocyte differentiation antigen CD14; myeloid cell-specific leucine-rich glycoprotein; |
| <b>Gene ID</b>         | 929                                                                                                                        |

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|----------------|---------------------------|
| mRNA Refseq    | <a href="#">NM_000591</a> |
| Protein Refseq | <a href="#">NP_000582</a> |
| MIM            | <a href="#">158120</a>    |
| UniProt ID     | <a href="#">P08571</a>    |

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