

# Recombinant Human CD14 protein, His-tagged

**Cat. No.** CD14-789H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human CD14 aa. (Asp125~Leu288 (Accession # P08571)) fused with N-terminal His tag was produced in E. coli cells.                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | Asp125~Leu288                                                                                                                                                                                                                                                                                                     |
| <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. Alternative splicing results in multiple transcript variants encoding the same protein. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | 20kDa as determined by SDS-PAGE reducing conditions.                                                                                                                                                                                                                                                              |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                              |
| <b>Characteristic</b>   | The isoelectric point is 8.5.                                                                                                                                                                                                                                                                                     |
| <b>Applications</b>     | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                          |

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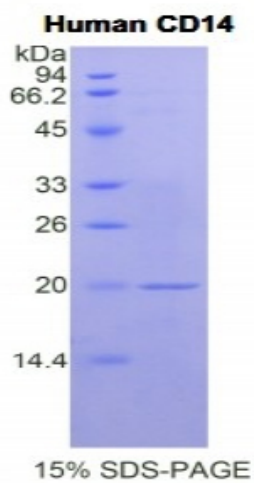
|                         |                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>          | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                          |
| <b>Storage buffer</b>   | Supplied as lyophilized form in PBS, pH 7.4, containing 5% sucrose, 0.01% sarcosyl.                                                                                                                                                                                                                                                 |
| <b>Reconstitution</b>   | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                           |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>        | CD14 CD14 molecule [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                         |
| <b>Official Symbol</b>  | CD14                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>         | myeloid cell-specific leucine-rich glycoprotein; monocyte differentiation antigen CD14                                                                                                                                                                                                                                              |
| <b>Gene ID</b>          | 929                                                                                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>      | NM_000591.3                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>   | NP_000582.1                                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>       | P08571                                                                                                                                                                                                                                                                                                                              |

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SDS-PAGE



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