

## Active Recombinant Human CD14 protein

**Cat. No.** CD14-2100H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Human CD14 was expressed in CHO.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | CHO  |
| <b>Description</b>      | The myeloid differentiation antigen CD14 acts as the major receptor for bacterial LPS. The dominant form of the recombinant wildtype CD14 is the 50kDa protein. The CD14 glycoprotein, gp 55, is present on most monocytic and macrophage like cell types: monocytes, macrophages, Kupffer cells, pleural phagocytic cells and dendritic reticular cells. CD14 is also observed on granulocytes and activated or transformed B-cells. Furthermore it is present in a soluble form in mouse serum, urine and other body fluids. |
| <b>Form</b>             | Lyophilized from PBS, pH 7.2.  |
| <b>Bio-activity</b>     | Inhibits binding of LPS to CD14. Up to 20g/ml CD14 inhibit binding of FITC-LPS (0.5g/ml) to 6x10 <sup>5</sup> CD14+ CHO transfectants (FACS).  |
| <b>Molecular Mass</b>   | ~50kDa   |
| <b>Endotoxin</b>        | <1EU/ml (LAL-test Charles River).  |
| <b>Purity</b>           | ≥90-95% (SDS-PAGE)   |

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|                       |  |
|-----------------------|--|
| <b>Storage</b>        | Long Term Storage: -80 centigrade. Avoid freeze/thaw cycles.                           |
| <b>Concentration</b>  | 0.25mg/ml after reconstitution.  |
| <b>Reconstitution</b> | Reconstitute with 40 $\mu$ distilled water. Further dilutions should be made with PBS. |

## GENE INFORMATION

|                            |  |
|----------------------------|--|
| <b>Gene Name</b>           | <a href="#">CD14 CD14 molecule [ Homo sapiens ]</a>  |
| <b>Official Symbol</b>     | <a href="#">CD14</a>   |
| <b>Synonyms</b>            | CD14; CD14 molecule; CD14 antigen; monocyte differentiation antigen CD14; myeloid cell-specific leucine-rich glycoprotein;   |
| <b>Gene ID</b>             | <a href="#">929</a>  |
| <b>mRNA Refseq</b>         | <a href="#">NM_000591</a>  |
| <b>Protein Refseq</b>      | <a href="#">NP_000582</a>  |
| <b>MIM</b>                 | <a href="#">158120</a>   |
| <b>UniProt ID</b>          | <a href="#">P08571</a>   |
| <b>Chromosome Location</b> | 5q22-q32   |
| <b>Pathway</b>             | 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, |

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organism-specific biosystem;

**Function**

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

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