

Active Recombinant Human CD14 protein

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

SPECIFICATION

Product Overview	Recombinant Human CD14 was expressed in CHO.
Species	Human
Source	CHO
Description	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.
Form	Lyophilized from PBS, pH 7.2.
Bio-activity	Inhibits binding of LPS to CD14. Up to 20g/ml CD14 inhibit binding of FITC-LPS (0.5g/ml) to 6x10 ⁵ CD14+ CHO transfectants (FACS).
Molecular Mass	~50kDa
Endotoxin	<1EU/ml (LAL-test Charles River).
Purity	≥90-95% (SDS-PAGE)

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Storage	Long Term Storage: -80 centigrade. Avoid freeze/thaw cycles.
Concentration	0.25mg/ml after reconstitution.
Reconstitution	Reconstitute with 40µdistilled water. Further dilutions should be made with PBS.
GENE INFORMATION	
Gene Name	CD14 CD14 molecule [Homo sapiens]
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 Location	5q22-q32
Pathway	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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