

Recombinant Mouse Cluster Of Differentiation 14, His-tagged

Cat. No. Cd14-1385M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CD14 is produced from mouse CD14 transfected <i>CHO-cells</i> in serum free medium. Before transfection the complete mouse CD14-cDNA was amplified by PCR and cloned into expression vector p-POL-DHFR). The recombinant mouse CD-14 was purified by His-tag and controlled by SDS page. The myeloid differentiation antigen CD14 acts as the major receptor for bacterial LPS. The dominant form of the recombinant wildtype CD14 is the 50 kDa protein.
Species	Mouse
Source	CHO
Description	CD14 (also known lipopolysaccharide (LPS) receptor) is expressed strongly on monocytes and macrophage and weakly on the surface of neutrophils. CD14 is anchored to cells by linkage to glycosylphosphatidylinositol (GPI) and functions as a high affinity receptor for complexes of LPS and LPS binding protein (LBP). Soluble CD14, also binding to LPS, acts at physiological concentration as an LPS agonist and has, at higher concentrations, an LPS antagonizing effect in cell activation. CD14 has been shown to bind apoptotic cells.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Applications	• ELISA • Inhibition Assays • Western Blotting.
Solubility	It is recommended to reconstitute the lyophilized Mouse CD14 in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous

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solutions.

Stability

Lyophilized Mouse CD14 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Mouse CD14 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name

[Cd14 CD14 antigen \[Mus musculus \]](#)

Synonyms

Cd14; Cluster of differentiation 14; CD14 antigen; CD14 molecule; Myeloid cell-specific leucine-rich glycoprotein; monocyte differentiation antigen CD14

Gene ID

[12475](#)

mRNA Refseq

[NM_009841](#)

Protein Refseq

[NP_033971](#)

UniProt ID

[P10810](#)

Chromosome Location

18 B2; 18 31.0 cM

Pathway

Hematopoietic cell lineage; MAPK signaling pathway; Regulation of actin cytoskeleton; Toll-like receptor signaling pathway

Function

lipopolysaccharide binding; lipoteichoic acid binding; protein binding

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