

# Recombinant Mouse CD-14

**CATALOG #:** 4938-10 10 µg

**SOURCE:** CHO-cells

**PURITY:** >90-95% by SDS-PAGE analyses  
Endotoxin level is <0.1 ng per µg.

**MOL. WEIGHT:** 50 kDa

**FORM:** Lyophilized from a concentrated protein solution (1 mg/ml) containing PBS, pH 7.2

**RECONSTITUTION:**

Centrifuge the vial prior to opening. Reconstitute in 10 µl of ultra-pure distilled water. This solution can then be diluted into other aqueous buffers and stored at -20°C or -70°C for future use.

**STORAGE CONDITIONS:**

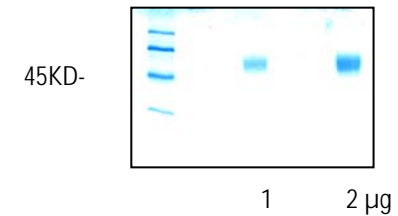
The lyophilized protein is best-stored desiccated below 0°C. Reconstituted mouse CD-14 should be stored in working aliquots at -20°C. For long term storage it is recommended to add a carrier protein (0.1% BSA). Repeated freezing and thawing should be avoided!!!

**DESCRIPTION:**

CD14 acts as a receptor for endotoxin (LPS), is expressed strongly on monocytes, macrophages and weakly at surface of neutrophils. CD14 is anchored to cells by linkage to glycosylphosphatidylinositol (GPI) and functions as a high affinity receptor LPS-LBP (lipopolysaccharide binding protein)-complexes. Furthermore CD14 is present in a soluble form in human serum, urine and other body fluids, acts at physiological concentrations as LPS agonist and has at higher concentrations an antagonizing effect in cell activation. The myeloid differentiation antigen CD14 acts as the major receptor for bacterial LPS. The dominant form of the recombinant wild type CD14 is the 50 kDa protein. This is a His-tagged protein.

**BIOLOGICAL ACTIVITY:**

Inhibits binding of LPS to CD14. Up to 5µg/ml mouse CD14 inhibit binding of FITC-LPS (0.5µg/ml) to mouse CD14<sup>+</sup>CHO transfectants

**GEL IMAGE:****RELATED PRODUCTS:**

CD-14 Monoclonal Antibody (Cat. No.3676-100)  
Recombinant Human CD-14 (Cat. No.4937-10)

**FOR RESEARCH USE ONLY! Not to be used in humans.**