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## Product Data Sheet

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Product Name: CD14 Mouse  
Cat. No.: GP22995  
Batch No.: 1

### Product Data

Purity	>98%	Source	CHO-cells.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Monocyte differentiation antigen CD14; Myeloid cell-specific leucine-rich glycoprotein; CD14.		
Solubility	It is recommended to reconstitute the lyophilized Mouse CD14 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	CD14 was lyophilized from a concentrated protein solution (1 mg/ml) containing phosphate-buffered saline, pH 7.2.		

### Introduction

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.

### 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.

### Background

The CD14 is produced from mouse CD14 transfected CHO-cells in serum free medium.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

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