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# CD14 Human, CHO

**Catalog #:**PRPS-543

For research use only.

**Description:**The CD14 is produced from human CD14 transfected CHO-cells. Before transfection the complete human CD14-cDNA was amplified by PCR and cloned into expression vector p-POL-DHFR. 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 containing 335 amino acids and lacks the GPI-Anchor.

**Synonyms:**Monocyte differentiation antigen CD14, Myeloid cell-specific leucine-rich glycoprotein, CD14.

**Source:**CHO-cells.

**Physical Appearance:**Sterile Filtered White lyophilized (freeze-dried) powder.

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**
CD14 was lyophilized from a concentrated protein solution (1.0 mg/ml) containing phosphate-buffered saline, pH 7.2.

**Stability:**
Lyophilized CD14 althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution 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.

**Usage:**
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**
It is recommended to reconstitute the lyophilized CD14 in sterile 18M-cm H2O not less than 100μg/ml. Further dilutions should be made with phosphate buffered saline (PBS).

**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.

**Biological Activity:**
Up to 20

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