
Product Data Sheet

Product Name: CD14 Mouse, Sf9
 Cat. No.: GP22996
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Monocyte differentiation antigen CD14; Myeloid cell-specific leucine-rich glycoprotein; CD14.		
Amino Acid Sequence	SPAPPEPCEL DEESCSCNFS DPKPDWSSAF NCLGAADV YGGGRSLEYLLKRVDTADL GQFTDIKSL SLKRLTVRAA RIPSRI LRVLGISGLQ ELTLENLEVT GTAPPPLLEATGPDLNILNL RNVSWAT RDA WLAELQQWLK PGLKVLSIAQ AHSLNFSCEQ VRVFPALSTLDLSDNPELGE RGLISALCPLKFPTLQVLAL RNAGMETPSG VCSALAAARV QLQGLDLSHN SLRDAAGAPS CDWPSQLNSL NLSFTGLKQV PKGLPAKLSVLDLSYNRLDR NPSPDELQV GNLSLKGPNF LDSESHSEKF NSGVVTAGAP SSQAVALS GT LALLLGDRFL VHHHHHH.		
Formulation	CD14 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

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

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CD14 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 357 amino acids (16-366a.a.) and having a molecular mass of 38.3kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). CD14 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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