
Product Data Sheet

Product Name: CD14 Human
 Cat. No.: GP22994
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Monocyte differentiation antigen CD14; Myeloid cell-specific leucine-rich glycoprotein; CD14.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSTTPEPCE LDEDFRCVC NFSEPQPDWS EAFQCVSAVE VEIHAGGLNL EPFLKRVDAD ADPRQYADTV KALRVRRLTV GAAQVPAQLL VGALRVLAYS RLKELTLEDL KITGTMPLP LEATGLALSS LRLRNVSAT GRSWLAELQQ WLKPLKVLV IAQAHSPAFA CEQVRAFPAL TSLDLSDNPG LGERGLMAAL CPHKFPAIQN LALRNTGMET PTGVCAALAA AGVQPHSLDL SHNSLRATVN PSAPRCMWSS ALNSLNLFA GLEQVPGKLP AKLRVLDLSC NRLNRAPQPD ELPEVDNLTL DGNPFLVPGT ALPHEGSMNS GVV.		
Formulation	CD14 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 30% glycerol 0.15M NaCl and 1mM DTT.		

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 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 353 amino acids (20-349 a.a) and having a molecular mass of 37.9kDa. CD14 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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