



Catalog Number: PR27286

Product Type: Recombinant Protein

Source: E. Coli

Amino Acid Sequence: MGSSHHHHHH SGLVPRGSH MGSTTPEPCE LDEDFRCVC NFSEPQPDWS EAFQCVSAVE VEIHAGGLNL EPFLKRVADAD ADPRQYADTV KALRVRLTV GAAQVPAQLL VGALRVLAYS RLKELTLEDL KITGTMPPPLP LEATGLALSS LRLRNVSWAT GRSWLAELQQ WLKPKLVLS IAQAHSPAFS CEQVRAFPAAL TSLDLSNPG LGERGLMAAL CPHKFP AIQN LALRNTGMET PTGVCAALAA AGVQPHSLDL SHNSLRATVN PSAPRCMWSS ALNSLNLSFA GLEQVPKGLP AKLRVLDLSC NRLNRAPQPD ELPEVDNLTL DGNPFLVPGT ALPHEGSMNS GVV.

Description/Molecular Mass: 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.

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.

Purity: Greater than 90.0% as determined by:
(a) Analysis by SDS-PAGE.

Format: CD14 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 30% glycerol 0.15M NaCl and 1mM DTT.

Storage: 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% HSA or BSA). Avoid multiple freeze-thaw cycles.

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