

CD14 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73531
Synonyms:	rHuCD14, His; Monocyte Differentiation Antigen CD14; Myeloid Cell-Specific Leucine-Rich Glycoprotein; CD14
Species:	Mouse
Source:	HEK293
Accession:	NP_033971.1 (S16-P345)
Gene ID:	12475
Molecular Weight:	Approximately 45-50 kDa

PROPERTIES

AA Sequence	<div> M E R V L G L L L L L W S S A F N C L G A I I K S L S L K R L N L E V T G T A P P Q Q W L K P G L K V P E L G E R G L I S A A A R V Q L Q G L G L K Q V P K G L P K G N P F L D S E S G D R L F V </div> <div> L L V H A S P A P P A D V E L Y G G G R T V R A A R I P S R P L L E A T G P D L L S I A Q A H S L N A L C P L K F P T L D L S H N S L R D A A K L S V L D L S Y H S E K F N S G V V </div> <div> E P C E L D E E S C S L E Y L L K R V D I L F G A L R V L G N I L N L R N V S W F S C E Q V R V F P Q V L A L R N A G M A G A P S C D W P S N R L D R N P S P D T A G A P S S Q A V </div> <div> S C N F S D P K P D T E A D L G Q F T D I S G L Q E L T L E A T R D A W L A E L A L S T L D L S D N E T P S G V C S A L Q L N S L N L S F T E L P Q V G N L S L A L S G T L A L L L </div>
Biological Activity	Measured by its ability to enhance LPS-induced IL-6 secretion by CTLL-2 cells. The ED ₅₀ this effect is 1.121 µg/mL, corresponding to a specific activity is 892.06 U/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in PBS, pH 7.4. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

CD14 encodes a protein pivotal in the innate immune response and prominently expressed in monocyte/macrophage cells. Functioning as a co-receptor, it binds various microbial and fungal molecules, including lipopolysaccharides (LPS). The LPS-binding activity of this protein is potentiated by the LPS binding protein (LBP), facilitating binding to the TLR4-MD-2 co-receptor complex. CD14 exists in two forms—soluble and cell surface-anchored by a glycosylphosphatidylinositol anchor. Its broad expression is observed across diverse tissues, such as the mammary gland and colon, highlighting its crucial role in immune-related processes.

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

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