

## CD14 Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P73531
<b>Synonyms:</b>	rHuCD14, His; Monocyte Differentiation Antigen CD14; Myeloid Cell-Specific Leucine-Rich Glycoprotein; CD14
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	P10810/NP_033971.1 (S16-P345)
<b>Gene ID:</b>	12475
<b>Molecular Weight:</b>	Approximately 45-50 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> M E R V L G L L L L   L L V H A S P A P P   E P C E L D E E S C   S C N F S D P K P D W S S A F N C L G A   A D V E L Y G G G R   S L E Y L L K R V D   T E A D L G Q F T D I I K S L S L K R L   T V R A A R I P S R   I L F G A L R V L G   I S G L Q E L T L E N L E V T G T A P P   P L L E A T G P D L   N I L N L R N V S W   A T R D A W L A E L Q Q W L K P G L K V   L S I A Q A H S L N   F S C E Q V R V F P   A L S T L D L S D N P E L G E R G L I S   A L C P L K F P T L   Q V L A L R N A G M   E T P S G V C S A L A A A R V Q L Q G L   D L S H N S L R D A   A G A P S C D W P S   Q L N S L N L S F T G L K Q V P K G L P   A K L S V L D L S Y   N R L D R N P S P D   E L P Q V G N L S L K G N P F L D S E S   H S E K F N S G V V   T A G A P S S Q A V   A L S G T L A L L L G D R L F V </pre>
<b>Biological Activity</b>	Measured by its ability to enhance LPS-induced IL-6 secretion by CTLL-2 cells. The ED <sub>50</sub> this effect is 1.121 µg/mL, corresponding to a specific activity is 892.06 U/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	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).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA