

## CD14 Protein, Mouse (HEK293, His-Fc)

Cat. No.:	HY-P75444
Synonyms:	Monocyte Differentiation Antigen CD14; CD14
Species:	Mouse
Source:	HEK293
Accession:	NP_033971.1 (S16-P345)
Gene ID:	12475
Molecular Weight:	85-95 kDa

### PROPERTIES

AA Sequence	<pre> 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           </pre>
Biological Activity	Measured by its ability to enhance LPS-induced IL-6 secretion by CTLL-2 cells. The ED <sub>50</sub> this effect is 468.3 ng/mL, corresponding to a specific activity is 2135.38 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

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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.**

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