

CD14 Protein, Human (HEK293, His)

Cat. No.:	HY-P7786
Synonyms:	rHuCD14, His; Monocyte Differentiation Antigen CD14; Myeloid Cell-Specific Leucine-Rich Glycoprotein; CD14
Species:	Human
Source:	HEK293
Accession:	P08571 (T20-C352)
Gene ID:	929
Molecular Weight:	Approximately 54 kDa

PROPERTIES

AA Sequence	<pre> T T P E P C E L D D E D F R C V C N F S E P Q P D W S E A F Q C V S A V E V E I H A G G L N L E P F L K R V D A D A D P R Q Y A D T V K A L R V R R L T V G A A Q V P A Q L L V G A L R V L A Y S R L K E L T L E D L K I T G T M P P L P L E A T G L A L S S L R L R N V S W A T G R S W L A E L Q Q W L K P G L K V L S I A Q A H S P A F S C E Q V R A F P A L T S L D L S D N P G L G E R G L M A A L C P H K F P A I Q N L A L R N T G M E T P T G V C A A L A A A G V Q P H S L D L S H N S L R A T V N P S A P R C M W S S A L N S L N L S F A G L E Q V P K G L P A K L R V L D L S C N R L N R A P Q P D E L P E V D N L T L D G N P F L V P G T A L P H E G S M N S G V V P A C </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM PB, 150 mM NaCl, 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 ddH ₂ O. 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, preferentially expressed on the surface of monocytes/macrophages, is a glycosphosphatidylinositol-linked protein, which is also part of the lipopolysaccharide (LPS) receptor complex. CD14 binds LPS and acts as a pattern recognition receptor (PRR). In addition to binding LPS and other bacterial products such as peptidoglycan and lipomannans, human
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CD14 has been suggested to mediate phagocytosis of bacteria and apoptotic cells^{[1][2]}.

REFERENCES

- [1]. Wright SD, et, al. CD14, a receptor for complexes of lipopolysaccharide (LPS) and LPS binding protein. *Science*. 1990 Sep 21;249(4975):1431-3.
- [2]. Tunheim G, et, al. Human CD14 is an efficient target for recombinant immunoglobulin vaccine constructs that deliver T cell epitopes. *J Leukoc Biol*. 2005 Mar;77(3):303-10.
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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

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