

32-7286: Recombinant Human CD14 (C-6His)

Gene : CD14
Gene ID : 929
Uniprot ID : P08571

Description

Source: Human Cells.
MW :36.81kD.

Recombinant Human CD14 is produced by our Mammalian expression system and the target gene encoding Thr20-Cys352 is expressed with a 6His tag at the C-terminus. CD14 is a cell surface glycoprotein that is preferentially expressed on monocytes/macrophages. CD14 is anchored to cells by linkage to glycosylphosphatidylinositol (GPI) and functions as a pattern recognition receptor that binds lipopolysaccharides (LPS) and a variety of ligands derived from different microbial sources. The binding of CD14 with LPS is catalyzed by LPS binding protein (LBP). Toll like receptors have also been implicated in the transduction of CD14-LPS signals. Soluble CD14 can be released from the cell surface by phosphatidylinositol-specific phospholipase C and has been detected in serum and body fluids. High concentrations of soluble CD14 have been shown to inhibit LPS mediated responses. However, soluble CD14 can also potentiate LPS response in cells that do not express cell surface CD14.

Product Info

Amount : 10 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Amino Acid : TTPEPCELDDEDFRCVCNFSEPPQDWSEAFQCVSAVEVEIHAGGLNLEPFLKRVDADADPRQYADTVKALRVR
RLTVGAAQVPAQLLVGALRVLAYSRLEKLTLEDKITGTMPPLPLEATGLALSSRLRNVSWATGRSWLAELQQ
WLKPGLKVLSIAQAHSPAFCSEQVRAFPALTSLDLSDNPGLGERGLMAALCPHKFPAIQNLALRNTGMETPTGV
CAALAAAGVQPHSLDLSHNSLRATVNPSPAPRCMWSSALNSLNSFAGLEQVPKGLPAKLRLVLDLSCNRLNRAP
QPDELPEVDNLTLDGNPFLVPGTALPHEGSMNSGVVPACVDHHHHHH

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.