

Recombinant mouse CD14 protein

Catalog Number: ATGP3175

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

16-366aa

UniProt No.

P10810

NCBI Accession No.

NP_033971

Alternative Names

Monocyte differentiation antigen CD14, CD14 molecule, Myeloid cell-specific leucine-rich glycoprotein

PRODUCT SPECIFICATION

Molecular Weight

38.3 kDa (357aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Cd14, also known as monocyte differentiation antigen CD14, is a component of the innate immune system. This protein was found expressed in macrophages, neutrophil granulocyte and dendritic cells. It exists in two forms, one anchored to the membrane by a glycosylphosphatidylinositol tail (mCD14), the other a soluble form (sCD14). The major function is serve as a co-receptor (along with TLR4 and MD-2) for the bacterial lipopolysaccharide

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(LPS) and other pathogen-associated molecular patterns. Recombinant Mouse Cd14, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

SPAPPEPCEL DEESCSCNFS DPKPDWSSAF NCLGAADVVEL YGGGRSLEYL LKRVDTEADL GQFTDIIKSL SLKRLTVRAA
RIPSRILFGA LRVLGISGLQ ELTLENLEVT GTAPPPLLEA TGPDLNILNL RNVSWATRDA WLAELQWLK PGLKVLSIAQ
AHSLNFSCEQ VRVFPALSTL DLSDNPELGE RGLISALCPL KFPTLQVLAL RNAGMETPSG VCSALAAARV QLQGLDLSHN
SLRDAAGAPS CDWPSQLNSL NLSFTGLKQV PKGLPAKLSV LDLSYNRLDR NPSPDELQV GNLSLKGNPF LDESEHSEKF
NSGVVTAGAP SSQAVALSGT LALLLGDRFL V<HHHHHH>

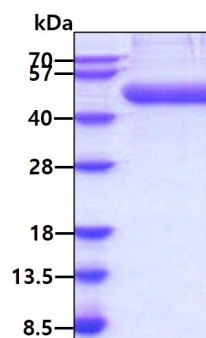
General References

Ferrero E., et al. (1990) J Immunol. 45(1):331-336.

SD Wright., et al. (1990) Science. 249:1431-1433.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain