

Recombinant Mouse Cd14 protein, His-tagged

Cat. No. Cd14-58M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cd14, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
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 (LPS) and other pathogen-associated molecular patterns.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	38.3kDa (357aa)40-57kDa (SDS-PAGE under reducing conditions)
AA Sequence	SPAPPEPCEL DEESCSCNFS DPKPDWSSAF NCLGAADV EL YGGGRSLEYL LKRVDTEADL GQFTDIKSL SLKRLTVRAA RIPSRLFGALRVLGISGLQ ELTLENLEVT GTAPPPLEA TGPDLNILNL RNVSWATRDA WLAELQQWLK PGLKVLSIAQ AHSLNFSCEQ VRVFPALSTLDLSDNPELGE RGLISALCPL KFPTLQVLAL RNAGMETPSG VCSALAAARV QLQGLDLSHN SLRDAAGAPS CDWPSQLNSL NLSFTGLKQVPKGLPAKLSV LDLSYNRLDR NPSPDELPQV GNLSLKGNPF LDESSEHSEKF NSGVVTAGAP SSQAVALSGT LALLLGDRLF

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Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>90% by SDS – PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)
GENE INFORMATION	
Gene Name	Cd14 CD14 antigen [Mus musculus]
Official Symbol	Cd14
Synonyms	CD14; CD14 antigen; monocyte differentiation antigen CD14; myeloid cell-specific leucine-rich glycoprotein;
Gene ID	12475
mRNA Refseq	NM_009841
Protein Refseq	NP_033971
MIM	
UniProt ID	
Pathway	Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem;

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Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; LPS transferred from LBP carrier to CD14, organism-specific biosystem;

Function

lipopolysaccharide binding; lipoteichoic acid binding;

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