

Active Recombinant Mouse Cd14 Protein, Fc-tagged

Cat. No. Cd14-117M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Cd14 (Ala18Pro345) protein with Fc region of human IgG1 at the C-terminus was expressed in mouse myeloma cell line, NS0.
Species	Mouse
Source	Mammalian Cells
Description	This gene encodes a protein that plays an important role in the innate immune response and is expressed in monocyte/macrophage cells. This gene product acts as a co-receptor that binds several microbial and fungal molecules, including lipopolysaccharides (LPS). This proteins LPS-binding activity is enhanced by the LPS binding protein (LBP) to allow binding to the TLR4-MD-2 co-receptor complex. The product of this gene is found in two forms, either as a soluble protein or attached to the cell surface by a glycosylphosphatidylinositol anchor.
Bio-activity	Measured by its ability to enhance LPS-induced IL-6 secretion by mouse splenocytes. The ED50 for this effect is 0.4-2.4 µg/mL.
Molecular Mass	Predicted Molecular Mass: 61.8 kDa (monomer) SDS-PAGE: 85-95 kDa, reducing conditions
N-terminal Sequence Analysis	Ala18
Endotoxin	<0.01 EU per 1 µg of the protein by the LAL method.

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Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain
Storage	Avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstitute at 1 mg/mL in sterile PBS.
GENE INFORMATION	
Gene Name	Cd14
Official Symbol	Cd14 CD14 antigen [<i>Mus musculus</i> (house mouse)]
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
UniProt ID	P10810