

## Active Recombinant Mouse Cd14 Protein, Fc-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Cd14 (Ala18Pro345) protein with Fc region of human IgG1 at the C-terminus was expressed in mouse myeloma cell line, NS0.
<b>Species</b>	Mouse
<b>Source</b>	Mammalian Cells
<b>Description</b>	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.
<b>Bio-activity</b>	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.
<b>Molecular Mass</b>	Predicted Molecular Mass: 61.8 kDa (monomer) SDS-PAGE: 85-95 kDa, reducing conditions
<b>N-terminal Sequence Analysis</b>	Ala18
<b>Endotoxin</b>	<0.01 EU per 1 µg of the protein by the LAL method.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain
<b>Storage</b>	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.
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>Reconstitution</b>	Reconstitute at 1 mg/mL in sterile PBS.

## GENE INFORMATION

<b>Gene Name</b>	Cd14
<b>Official Symbol</b>	Cd14 CD14 antigen [ <i>Mus musculus</i> (house mouse) ]
<b>Synonyms</b>	Cd14; CD14 antigen; monocyte differentiation antigen CD14; myeloid cell-specific leucine-rich glycoprotein
<b>Gene ID</b>	12475
<b>mRNA Refseq</b>	NM_009841
<b>Protein Refseq</b>	NP_033971
<b>UniProt ID</b>	P10810

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA