

## PRODUCT INFORMATION

<b>Target</b>	M-CSF
<b>Synonyms</b>	CSF-1;MCSF
<b>Description</b>	Recombinant Human M-CSF Protein with C-terminal human Fc tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P09603
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-Human Fc Tag
<b>Molecular Characterization</b>	M-CSF(Glu33-Arg255) hFc(Glu99-Ala330)
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 51.3 kDa after removal of the signal peptide. The apparent molecular mass of M-CSF-hFc is approximately 55-70 kDa due to glycosylation.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
<b>Storage&amp;Shipping</b>	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Background</b>	The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of macrophages. The active form of the protein is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. The encoded protein may be involved in development of the placenta. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2011]
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



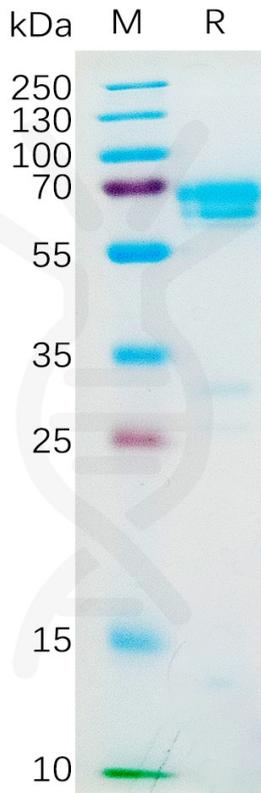


Figure 1. Human M-CSF Protein, hFc Tag on SDS-PAGE under reducing condition.

## Human M-CSF, hFc tagged protein ELISA

0.2  $\mu$ g of Human CSF1R, His tagged protein per well

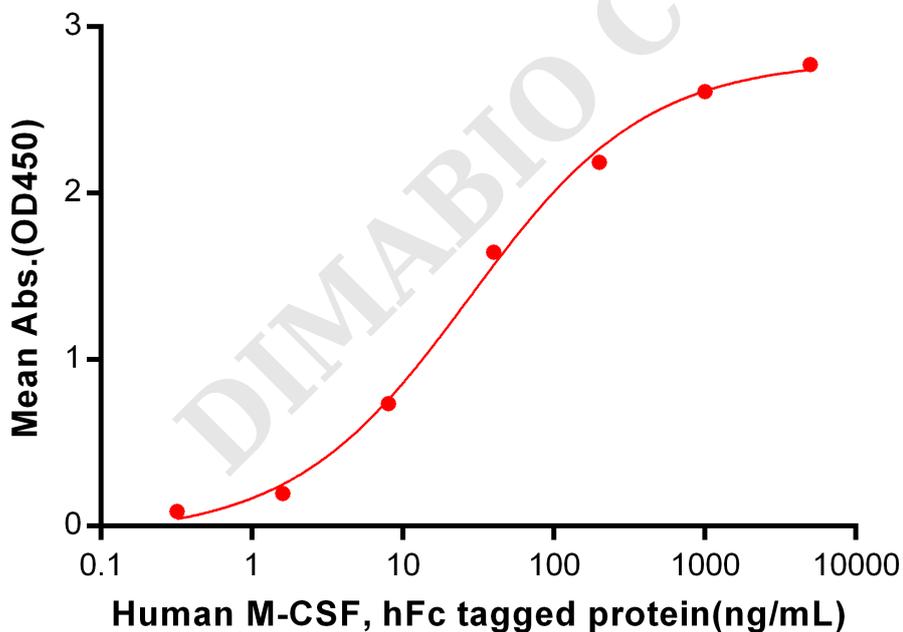


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human CSF1R, His tagged protein PME100067 can bind Human M-CSF, hFc Tagged protein  $\square$ PME100550 $\square$  in a linear range of 0.32-200 ng/ml.



### Human M-CSF, hFc Tagged protein ELISA

0.2  $\mu$ g of Human M-CSF, hFc tagged protein per well

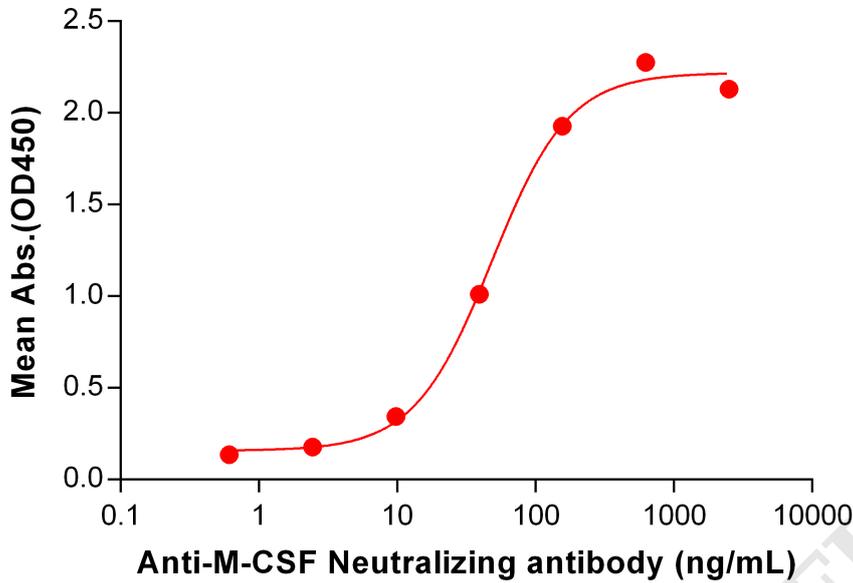


Figure 3. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Human M-CSF Protein, hFc Tag (PME100550) can bind Anti-M-CSF Neutralizing antibody BME100104 in a linear range of 9.77-156.25 ng/mL.

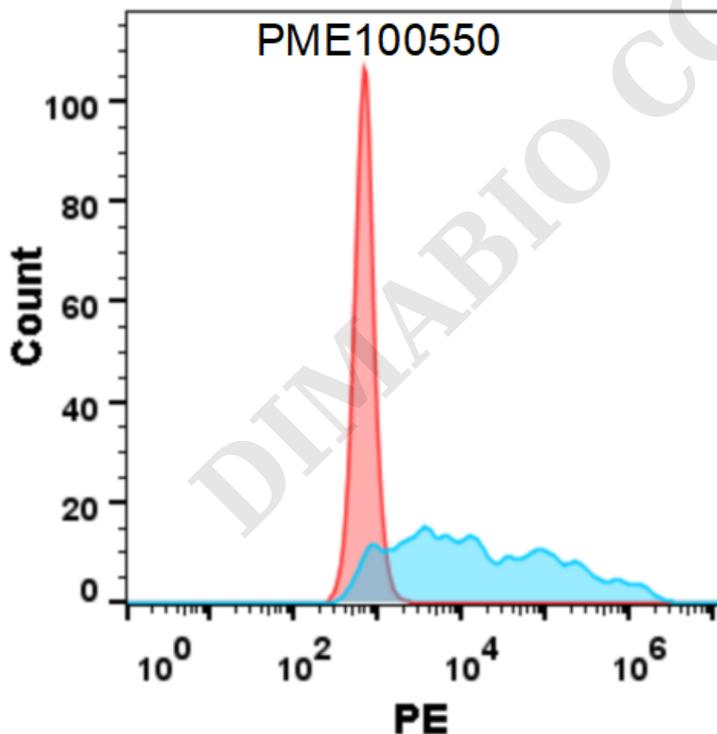


Figure 4. Flow cytometry analysis with 1  $\mu$ g/mL Human M-CSF Protein, hFc tag (PME100550) on HEK293 cells transfected with human CSF1R (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).

