

## PRODUCT INFORMATION

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| <b>Target</b>                           | M-CSF  |
| <b>Synonyms</b>                         | CSF-1;MCSF   |
| <b>Description</b>                      | Recombinant Human M-CSF with C-terminal 6×His tag  |
| <b>Delivery</b>                         | In Stock   |
| <b>Uniprot ID</b>                       | P09603   |
| <b>Expression Host</b>                  | HEK293   |
| <b>Tag</b>                              | C-6×His Tag  |
| <b>Molecular Characterization</b>       | M-CSF(Glu33-Arg255) 6×His tag  |
| <b>Molecular Weight</b>                 | The protein has a predicted molecular mass of 26 kDa after removal of the signal peptide. The apparent molecular mass of M-CSF-His is approximately 25-55 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>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   |



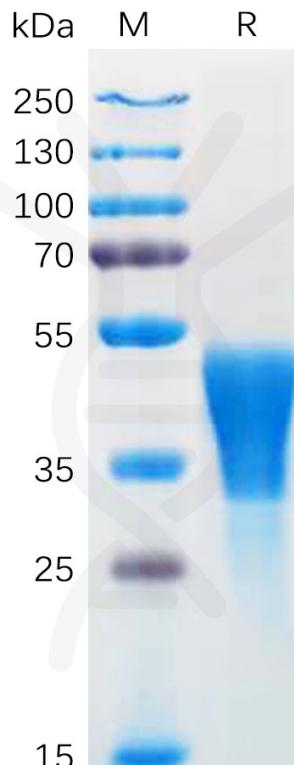


Figure 1. Human M-CSF Protein, His Tag on SDS-PAGE under reducing condition.

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

0.2 µg of Human M-CSF, His tagged protein per well

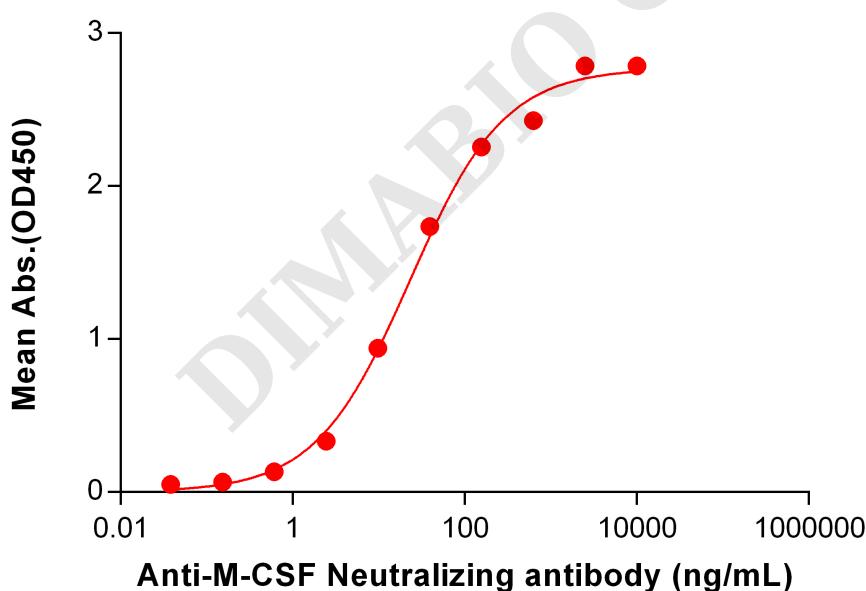


Figure 2. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human M-CSF Protein, His Tag (PME100569) can bind Anti-M-CSF Neutralizing antibody BME100104 in a linear range of 2.44–156.25 ng/mL.



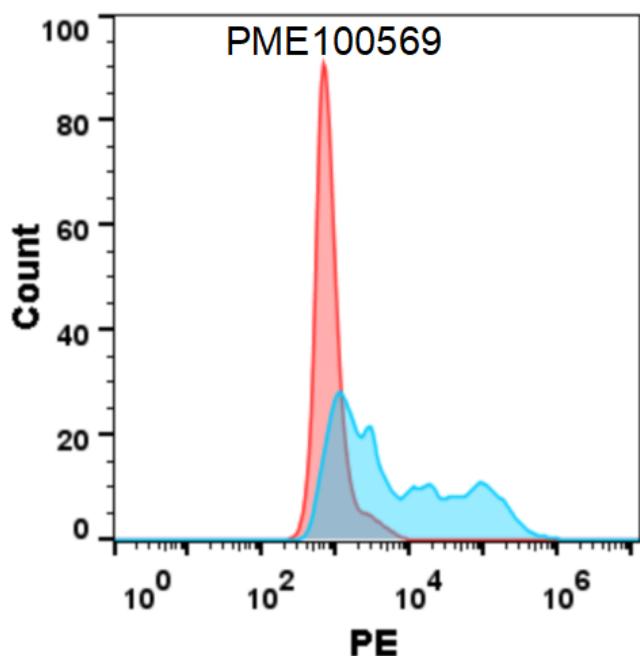


Figure 3. Flow cytometry analysis with 1  $\mu$ g/mL Human M-CSF Protein, His tag (PME100569) on HEK293 cells transfected with human CSF1R (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).

