

**Catalog No.:** RP01221   **Recombinant**   **2 Publications**

Species	Gene ID	Swiss Prot
Human	1435	P09603-1

## C-His

**Synonyms**  
CSF1;CSF-1;MCSF

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 95 % as determined by SDS-PAGE

Calculated MW	Observed MW
25.97 kDa	36-45 kDa

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22  $\mu\text{m}$  filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Recombinant Human CSF-1/M-CSF Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu33-Arg255) of human M-CSF/CSF-1 (Accession #NP\_000748.3) fused with a 6xHis tag at the C-terminus.

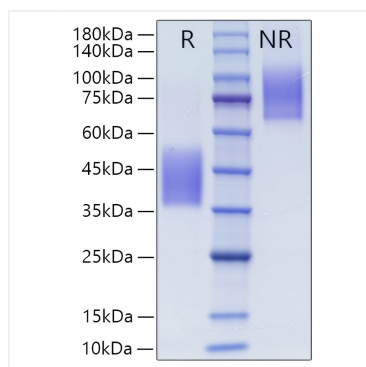
1.Measured by its binding ability in a functional ELISA. Immobilized Human CSF1 at 1µg/mL (100 µL/well) can bind Human CSF1R with a linear range of 0.01-7.8 ng/mL.[2.Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED<sub>50</sub> for this effect is typically 1.53-6.14 ng/mL, corresponding to a specific activity of  $1.63 \times 10^{-6}$ - $6.53 \times 10^{-5}$  units/mg.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

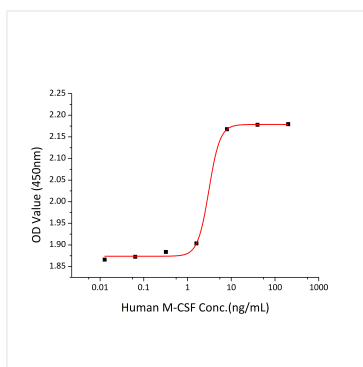
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Avoid repeated freeze/thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

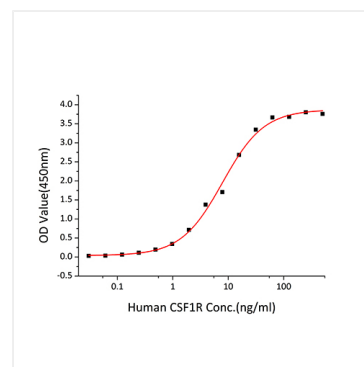
## Validation Data



Recombinant Human CSF-1/M-CSF Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



Recombinant Human M-CSF promotes the proliferation of M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The  $ED_{50}$  for this effect is typically 1.53-6.14 ng/mL, corresponding to a specific activity of  $1.63 \times 10^5$ - $6.53 \times 10^5$  units/mg.



Immobilized Human CSF1 at  $1 \mu\text{g/mL}$  ( $100 \mu\text{L/well}$ ) can bind Human CSF1R with a linear range of 0.01-7.8 ng/mL.