

# Recombinant Human CSF-1/M-CSF Protein

Catalog No.: RP01221 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	1435	P09603-1

### Tags

C-His

### Synonyms

CSF1;CSF-1;MCSF

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

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

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

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.

## Background

## Basic Information

### Description

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.

### Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Human CSF1 at 1 μg/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 1.63×10<sup>5</sup>-6.53×10<sup>5</sup> units/mg.

### Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

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.

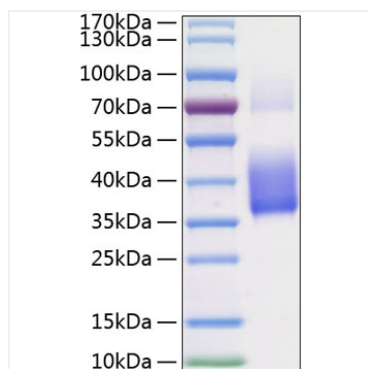
## Contact

☎ | 400-999-6126

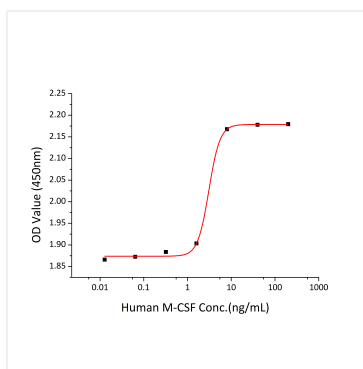
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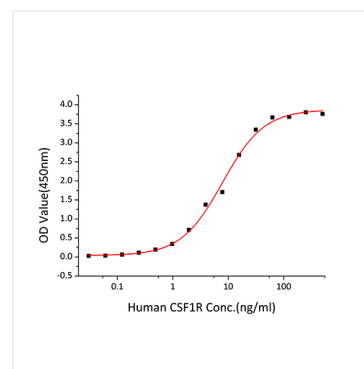
## Validation Data



Recombinant Human CSF-1/M-CSF Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 36-45 kDa.



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.