

# Human CSF1R/MCSF Receptor/CD115 (His Tag) recombinant protein



Catalog Number: 503773

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## General Information

### Gene Name Synonym

CSF-1 receptor; Proto-oncogene c-Fms

### Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Glu512) of human M-CSFR (NP\_005202.2) precursor was expressed with the fused C-terminal polyhistidine-tagged.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its binding ability in a functional ELISA.
2. Immobilized human CSF1R (Cat:503773) at 10 µg/mL (100 µl/well) can bind biotinylated human CSF-1 (Cat:501502), The  $EC_{50}$  of biotinylated human CSF-1 (Cat:501502) is 8 ng/mL.
3. Measured by its ability to inhibit the human CSF-induced proliferation of M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The  $ED_{50}$  for this effect is typically 6-30 µg/mL in the presence of 3 ng/ml Recombinant Human M-CSF.

### Purity

> 98 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from

date of receipt at -70°C

### Predicted N terminal

Ile 20

### Molecular Mass

The recombinant human M-CSFR contains 504 amino acids after the removal of signal peptide with a calculated molecular mass of 56 kDa. As a result of glycosylation, it migrates as an approximately 85-95 kDa protein in SDS-PAGE under reducing conditions.

### Formulation

- Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

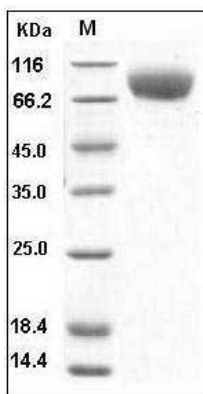
### SDS-PAGE

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(His Tag) SDS-PAGE