

# Biotinylated Recombinant Human CSF1R/M-CSF R/CD115 Protein

Catalog No.: RP02337B **Recombinant**

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 1436    | P07333     |

### Tags

C-His&Avi

### Synonyms

CSF1R;C-FMS;CD115;CSF-1R;CSFR;FIM2;FMS;HDLS;M-CSF-R;BANDDOS

## Product Information

| Source       | Purification                             |
|--------------|--|
| HEK293 cells | > 95% by Tris-Bis PAGE;> 95% by SEC-HPLC |

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the tube 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 freeze-thaw cycles.

## Contact

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## Background

CSF1R also known as M-CSF receptor, the product of the c-fms proto-oncogene, is a member of the type III subfamily of receptor tyrosine kinases that also includes receptors for SCF and PDGF. These receptors each contain five immunoglobulin-like domains in their extracellular domain (ECD) and a split kinase domain in their intracellular region. CSF1R is tyrosine-protein kinase that acts as cell-surface receptor for CSF1 and IL34 and plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes.

## Basic Information

### Description

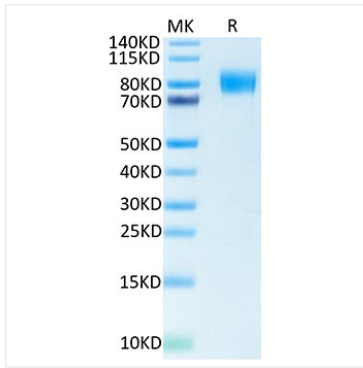
Biotinylated Recombinant Human CSF1R/M-CSF R/CD115 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Ile20-Glu512) of Human CSF1R fused with a His and Avi tag at the C-terminal.

### Bio-Activity

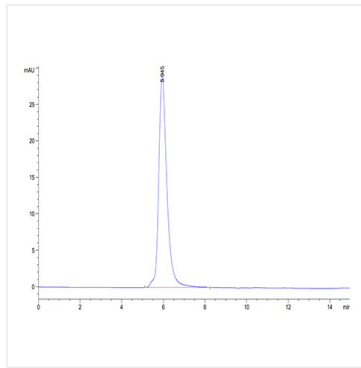
### Storage

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.

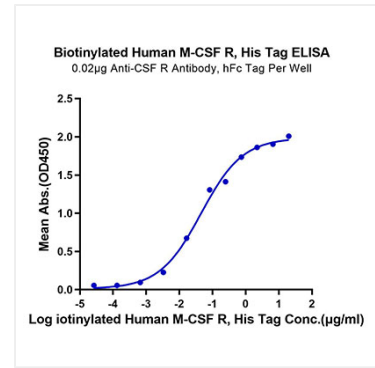
## Validation Data



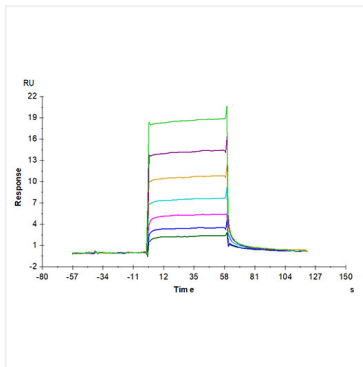
Biotinylated Human M-CSF R on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Biotinylated Human M-CSF R is greater than 95% as determined by SEC-HPLC.



Immobilized Anti-CSF R Antibody, hFc Tag at 0.2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human M-CSF R, His Tag with the EC<sub>50</sub> of 45.4ng/ml determined by ELISA.



Biotinylated Human M-CSF R, His-Avi Tag immobilized on CM5 Chip can bind Human M-CSF, No Tag with an affinity constant of 0.81 µM as determined in SPR assay (Biacore T200).