

**Catalog No.: RP00268** **Recombinant**

Species	Gene ID	Swiss Prot
Human	1436	P07333

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

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

Calculated MW	Observed MW
55.34 kDa	70-100 kDa

**Endotoxin**  
< 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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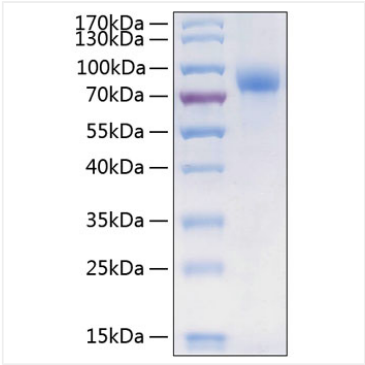
The recombinant human CSF1R/GST chimera consists of 667 amino acids with a molecular weight of 76 KDa. It migrates as an about 75 KDa band in SDS-PAGE under reducing conditions. M-CSFR encoded by the proto-oncogene *c-fms* is the receptor for colony stimulating factor 1 (CSF1R), a cytokine involved in the proliferation, differentiation, and activation of macrophages. This cell surface glycoprotein is consisted by an extracellular ligand-binding domain, a single membrane-spanning segment, and an intracellular tyrosine kinase domain. CSF1R is a receptor for a cytokine called colony stimulating factor 1, The protein encoded by the *CSFR1* gene is the receptor for colony stimulating factor 1, a cytokine which controls the production, differentiation, and function of macrophages. This receptor mediates most, if not all, of the biological effects of this cytokine. Ligand binding activates CSFR1 through a process of oligomerization and transphosphorylation. Mutations in CSF1R are associated with chronic myelomonocytic leukemia and type M4 acute myeloblastic leukemia. Increased levels of CSF1R are found in microglia in Alzheimer's disease and after brain injuries. The role of CSF1 and CSF1R in normal and neoplastic mammary development that may elucidate potential relationships of growth factor-induced biological changes in the breast during pregnancy and tumor progression.

Recombinant Human CSF1R/M-CSF R/CD115 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ile20-Glu512) of human CSF1R (Accession #NP\_005202.2) fused with a 6xHis tag at the C-terminus.

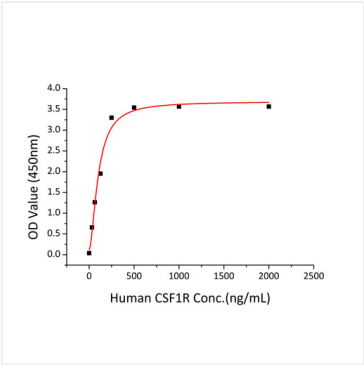
1. Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human M-CSF at 2 µg/mL (100 µL/well) can bind Recombinant Human CSF1R with a linear range of 50-200 ng/mL. 2. Measured by its ability to inhibit the G-CSF-induced proliferation of M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED<sub>50</sub> for this effect is typically 0.095-0.38 ng/mL. 3. Measured by its binding ability in a functional ELISA. Immobilized Human CSF-1/M-CSF (Cat. RP01221) at 2 µg/mL (100 µL/well) can bind Human CSF1R with a linear range of 2-185 ng/mL.

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.

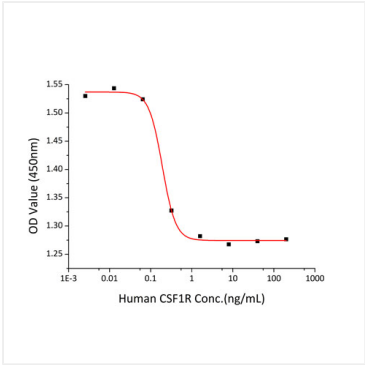
Validation Data



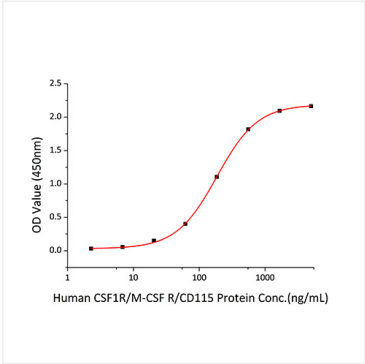
Recombinant Human CSF1R/M-CSF R/CD115 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Human M-CSF at 2µg/mL (100 µL/well) can bind Recombinant Human CSF1R with a linear range of 50-200 ng/mL.



Recombinant Human CSF1R inhibits the GCSF-induced proliferation of M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED<sub>50</sub> for this effect is typically 0.095-0.38 ng/mL.



Immobilized Human CSF-1/M-CSF(Cat. RP01221) at 2µg/mL (100 µL/well) can bind Human CSF1R with a linear range of 2-185 ng/mL.