

# Recombinant Human CSF2RA/GM-CSF R alpha/CD116 Protein

Catalog No.: RP00507 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	1438	P15509-1

### Tags

C-His

### Synonyms

GM-CSF-R-alpha; GMCSFR-alpha; GMR-alpha; CSF2R; CSF2RY; CSF2RA; CDw116; CD116; CSF2RAX; CSF2RAY; CSF2RX; GMCSFR; GMR; SMDP4

## Product Information

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

Calculated MW	Observed MW
35.3 kDa	60-70 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL method

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### 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.

## Contact

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## Background

In the first trimester, the GM-CSF-R was found to be present on villous cytotrophoblast and all populations of extravillous trophoblast. Expression by villous syncytiotrophoblast was weak or absent, but this increased markedly by term. GM-CSF-R were also expressed by fetal Hofbauer cells within the mesenchyme of the chorionic villi and by uterine glandular epithelium and decidual macrophages within maternal decidua.

## Basic Information

### Description

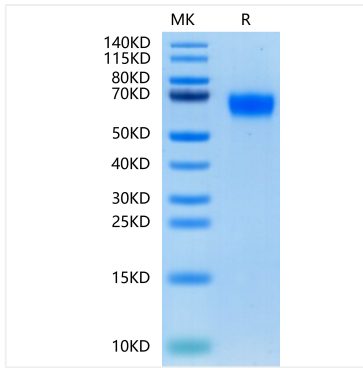
Recombinant Human CSF2RA/GM-CSF R alpha/CD116 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu23-Gly320) of Human CSF2RA/GM-CSF R alpha/CD116 (Accession #P15509-1) fused with a C-His tag at the C-terminus.

### Bio-Activity

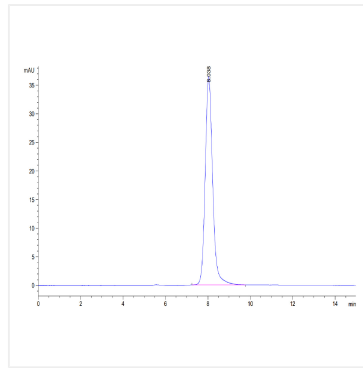
### Storage

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.

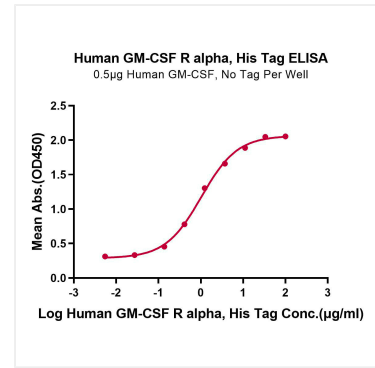
## Validation Data



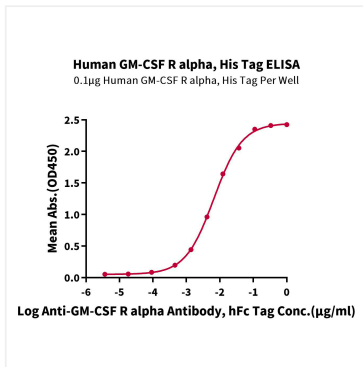
Human GM-CSF R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



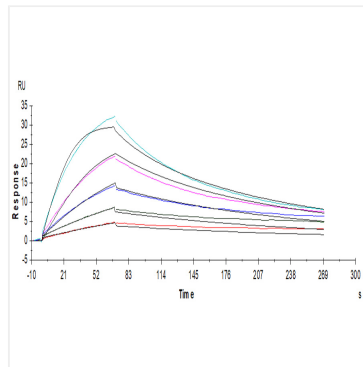
The purity of Human GM-CSF R alpha is greater than 95% as determined by SEC-HPLC.



Immobilized Human GM-CSF, No Tag at 5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human GM-CSF R alpha, His Tag with the EC<sub>50</sub> of 1.0 µg/mL determined by ELISA.



Immobilized Human GM-CSF R alpha, His Tag at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Anti-GM-CSF R alpha Antibody, hFc Tag with the EC<sub>50</sub> of 6.6ng/mL determined by ELISA (QC Test).



Human GM-CSF R alpha, His Tag captured on CM5 Chip via anti-His antibody can bind Human GM-CSF, No Tag with an affinity constant of 0.79nM as determined in SPR assay (Biacore T200).