

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

Catalog No.: RP00509B

## Sequence Information

|                   |                |
|-------------------|----------------|
| <b>Species</b>    | <b>Gene ID</b> |
| Human             | 1438           |
| <b>Swiss Prot</b> | <b>Tags</b>    |
| P15509-1          | C-His&Avi      |

### Synonyms

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

## Product Information

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

|                      |                    |
|----------------------|--------------------|
| <b>Calculated MW</b> | <b>Observed MW</b> |
| 37.7 kDa             | 68-75 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.

## 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

Biotinylated 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&Avi tag at the C-terminus.

### Activity

### Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C

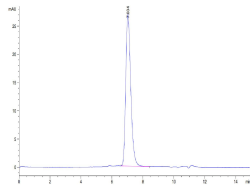
### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

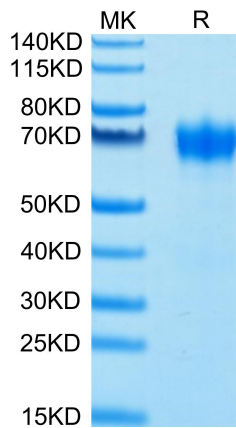
## Contact

|                                                                                     |  |                                                                          |
|-------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------|
|  |  | 400-999-6126                                                             |
|  |  | <a href="mailto:cn.market@abclonal.com.cn">cn.market@abclonal.com.cn</a> |
|  |  | <a href="http://www.abclonal.com.cn">www.abclonal.com.cn</a>             |

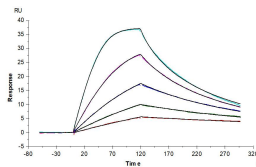
## Validation Data



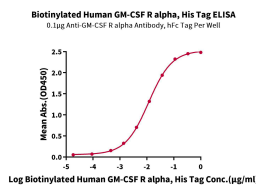
The purity of Biotinylated Human GM-CSF R alpha is greater than 95% as determined by SEC-HPLC.



Biotinylated Recombinant Human CSF2RA/GM-CSF R alpha/CD116 Protein was determined by Tris-Bis PAGE under reducing conditions.



Biotinylated Human GM-CSF R alpha, His-Avi Tag captured on CM5 Chip via Anti-His Antibody can bind Human GM-CSF, No Tag with an affinity constant of 1.68 nM as determined in SPR assay (Biacore T200).



Immobilized Anti-GM-CSF R alpha Antibody, hFc Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human GM-CSF R alpha, His Tag with the  $EC_{50}$  of 11.6ng/mL determined by ELISA (QC Test).