

Recombinant Human GM-CSF R alpha Protein

Catalog No.: RP00508 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	1438	P15509-1

Tags

C-hFc

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

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

Bio-Activity

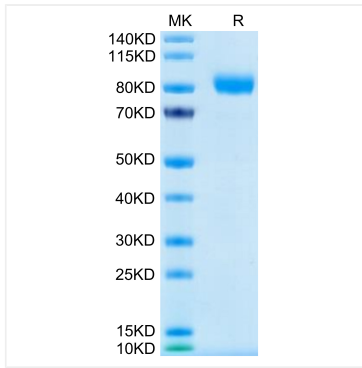
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months.

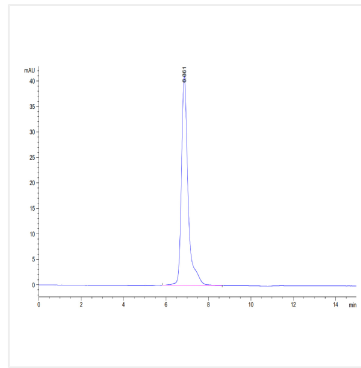
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

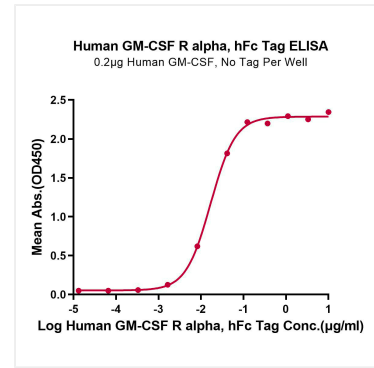
Validation Data



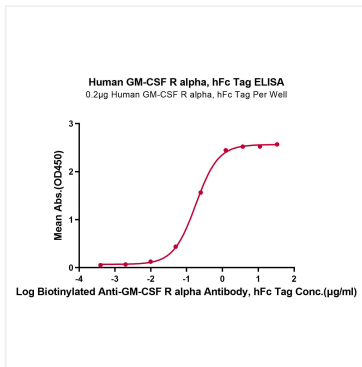
Human GM-CSF R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



Immobilized Human GM-CSF at 2 µg/mL (100 µL/Well) on the plate. Dose response curve for Human GM-CSF R alpha, hFc Tag with the EC₅₀ of 16.9ng/mL determined by ELISA (QC Test).



Immobilized Human GM-CSF R alpha, hFc Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Anti-GM-CSF R alpha Antibody, hFc Tag with the EC₅₀ of 0.18 µg/mL determined by ELISA.