

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

Catalog No.: RP02337B

Sequence Information

Species	Gene ID
Human	1436
Swiss Prot	Tags
P07333	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 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Calculated MW Observed MW

57.4 kDa 75-105 kDa

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 free-thaw cycles.

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.

Activity

1. Immobilized Anti-CSF R Antibody, hFc Tag at 0.2 μg/ml (100 μl/Well) on the plate. Dose response curve for Biotinylated Human M-CSF R, His Tag with the EC50 of 45.4 ng/ml determined by ELISA.
2. 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).

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

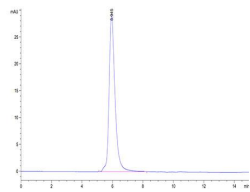
Operational Notes

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

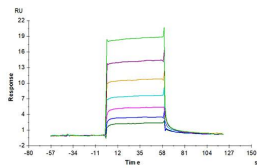
Contact

		400-999-6126
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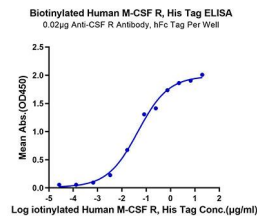
Validation Data



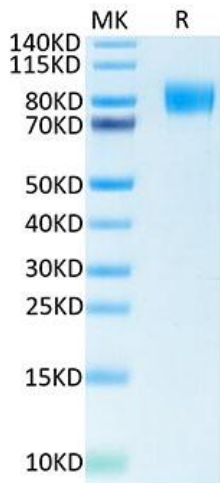
The purity of Biotinylated Human M-CSF R is greater than 95% as determined by SEC-HPLC.



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 μ M as determined in SPR assay (Biacore T200).



Immobilized Anti-CSF R Antibody, hFc Tag at 0.2 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Biotinylated Human M-CSF R, His Tag with the EC₅₀ of 45.4 ng/ml determined by ELISA.



Biotinylated Recombinant Human CSF1R/M-CSF R/CD115 Protein was determined by Tris-Bis PAGE under reducing conditions.