

Biotinylated Human M-CSF R/CSF1R/CD115 Protein

Cat. No. CSF-HM41RB

Description

Source	Recombinant Biotinylated Human M-CSF R/CSF1R/CD115 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Ile20-Glu512.
Accession	P07333-1
Molecular Weight	The protein has a predicted MW of 57.4 kDa. Due to glycosylation, the protein migrates to 75-105 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

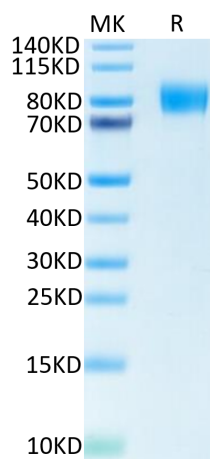
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-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.

Assay Data

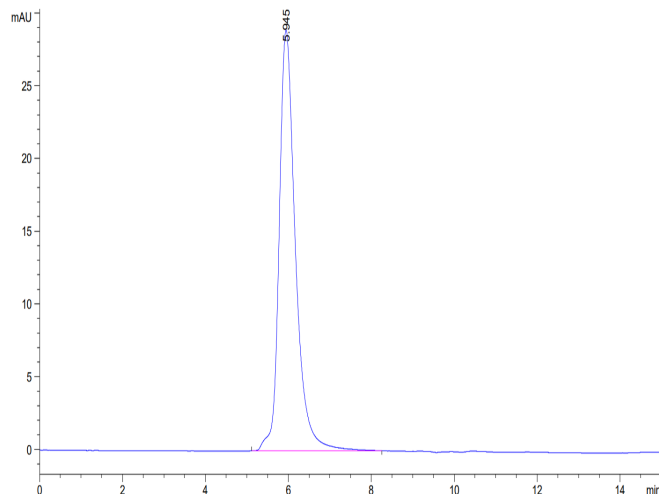
Tris-Bis PAGE



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

SEC-HPLC

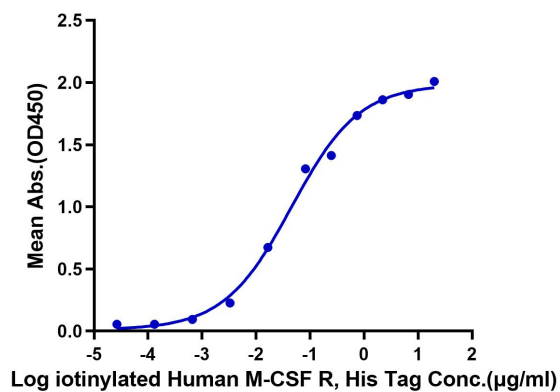
Assay Data



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

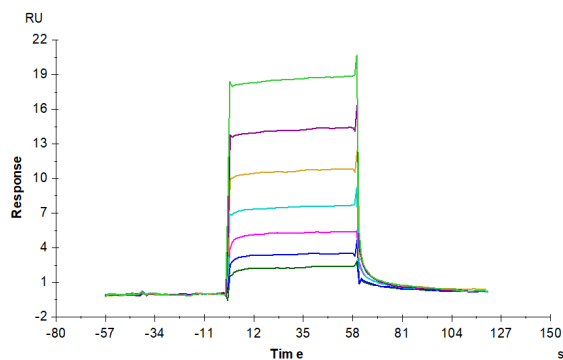
ELISA Data

Biotinylated Human M-CSF R, His Tag ELISA
0.02µg Anti-CSF R Antibody, hFc Tag Per Well



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

SPR Data



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).