

# Human M-CSF R/CSF1R/CD115 Protein

Cat. No. CSF-HM41R

## Description

<b>Source</b>	Recombinant Human M-CSF R/CSF1R/CD115 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ile20-Glu512.
<b>Accession</b>	P07333-1
<b>Molecular Weight</b>	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.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

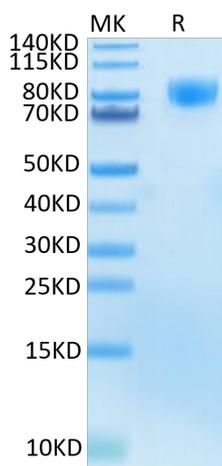
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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 minimize 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

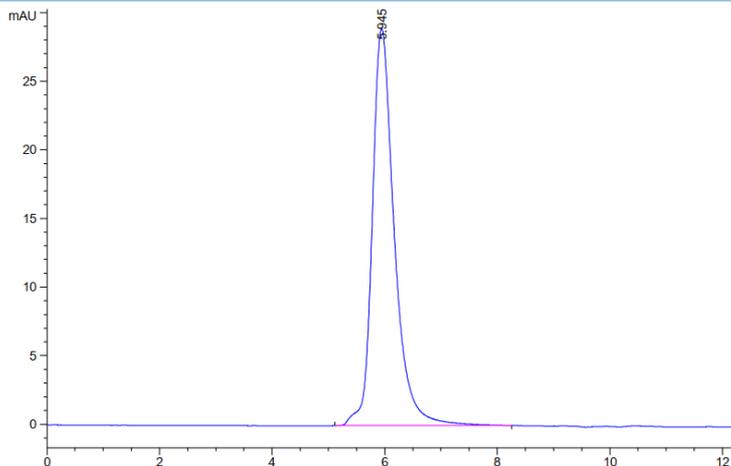
### Tris-Bis PAGE



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

### SEC-HPLC

Assay Data

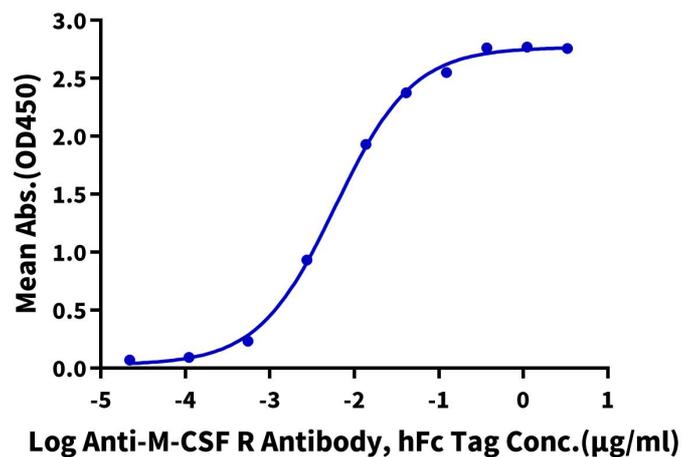


The purity of Human M-CSF R is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human M-CSF R, His Tag ELISA

0.1µg Human M-CSF R, His Tag Per Well



Immobilized Human M-CSF R, His Tag at 1µg/ml (100µl/Well). Dose response curve for Anti-M-CSF R Antibody, hFc Tag with the EC50 of 6.0ng/ml determined by ELISA.