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# **CSF1R Protein (His-Avi Tag, Biotin)**





#### Overview

Quantity:	100 μg
Target:	CSF1R
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CSF1R protein is labelled with His-Avi Tag,Biotin.

### **Product Details**

Sequence:	lle20-Glu512
Purity:	> 95% as determined by Tris-Bis PAGE,> 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per μg by the LAL method.
Biological Activity Comment:	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. The affinity constant of 0.81 µM as determined in SPR assay (Biacore
	T200). See testing image for detail.

## **Target Details**

Target:	CSF1R
Alternative Name:	M-CSF R (CSF1R Products)
Background:	CD115, CSF1R, CSF-1-R, CSFR, FMSFIM2, M-CSF R, MCSFR, M-CSFR, C-FMS, FIM2, FMS,

HDLS,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.
57.4 kDa. Due to glycosylation, the protein migrates to 75-105 kDa based on Tris-Bis PAGE
result.

Molecular Weight:

Pathways:

RTK Signaling, Inositol Metabolic Process, Cell-Cell Junction Organization

# Application Details

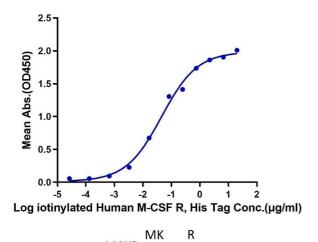
Restrictions: For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.
Storage:	4 °C,-80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

# Biotinylated Human M-CSF R, His Tag ELISA

0.02µg Anti-CSF R Antibody, hFc Tag Per Well



70KD

50KD 40KD **30KD** 25KD

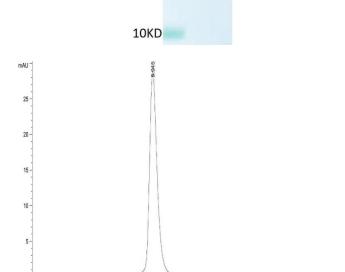
15KD

#### **ELISA**

**Image 1.** Immobilized Anti-CSF R Antibody, hFc Tag at 0.2 μ g/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.

#### **SDS-PAGE** 140KD 115KD 80KD

Image 2. Biotinylated Human M-CSF R on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.



#### Size-exclusion chromatography-High **Pressure** Liquid Chromatography

Image 3. The purity of Biotinylated Human M-CSF R is greater than 95 % as determined by SEC-HPLC.

Please check the product details page for more images. Overall 4 images are available for ABIN7274428.