

# Mouse M-CSF R/CSF1R/CD115 Protein

Cat. No. CSF-MM11R

## Description

Source	Recombinant Mouse M-CSF R/CSF1R/CD115 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Ala20-Ser511.
Accession	P09581
Molecular Weight	The protein has a predicted MW of 56.3 kDa. Due to glycosylation, the protein migrates to 76-82 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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

### Bis-Tris PAGE

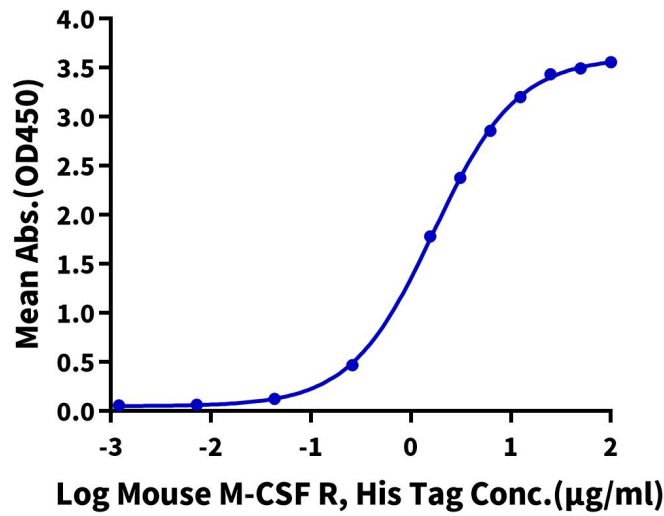


Mouse M-CSF R on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

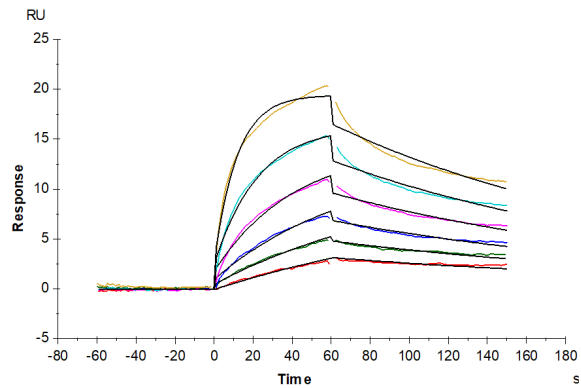
Mouse M-CSF R, His Tag ELISA

0.5µg Mouse M-CSF, No Tag Per Well



Immobilized Mouse M-CSF, No Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Mouse M-CSF R, His Tag with the EC50 of 1.69µg/ml determined by ELISA (QC Test).

SPR Data



Mouse M-CSF R, His tag captured on CM5 Chip via Anti-His Antibody can bind Human M-CSF, No tag with an affinity constant of 1.70 nM as determined in SPR assay (Biacore T200).