

# Mouse M-CSF/CSF-1 Protein

Cat. No. CSF-MM001

## Description

<b>Source</b>	Recombinant Mouse M-CSF/CSF-1 Protein is expressed from HEK293 without tag. It contains Lys33-Glu262.
<b>Accession</b>	P07141-1
<b>Molecular Weight</b>	The protein has a predicted MW of 25.98 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.1EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

## Formulation and Storage

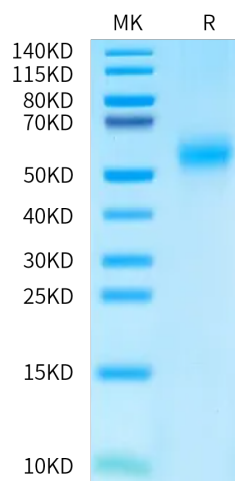
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein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

## Background

CSF-1, also known as M-CSF, is a four alpha-helical-bundle cytokine that is the primary regulator of macrophage survival, proliferation and differentiation. CSF-1 is also essential for the survival and proliferation of osteoclast progenitors. CSF-1 is a cytokine that plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes.

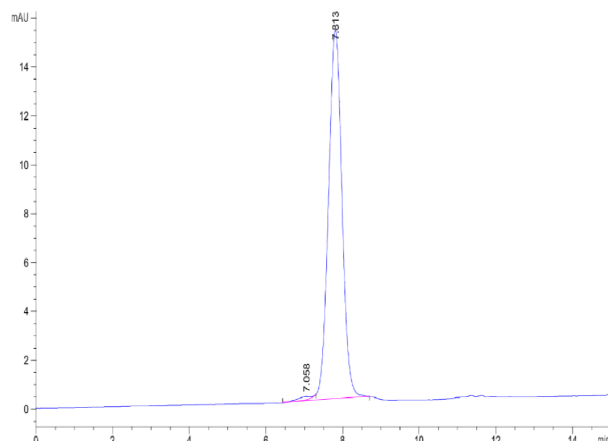
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



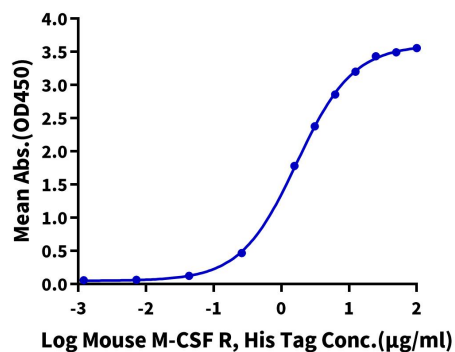
The purity of Mouse M-CSF is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Mouse M-CSF, No 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).