

# Recombinant Mouse Csf1

**Cat. No.** Csf1-95M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Macrophage Colony Stimulating Factor produced in <i>E.coli</i> is a disulfide linked homodimer, non-glycosylated, polypeptide chain containing 2 x 156 amino acids and having a total molecular mass of 36.4 KD. MCSF is purified by proprietary chromatographic techniques.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Granulocyte/Macrophage Colony-Stimulating Factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.
<b>Amino Acid Sequence</b>	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Lys-Glu-Val-Ser.
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Formulation</b>	The protein (1 mg/ml) was lyophilized with 5mM Tris, pH 8.0 + 100 mM NaCl.

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<b>Solubility</b>	It is recommended to reconstitute the lyophilized M-CSF in sterile 18 MΩ-cm H <sub>2</sub> O not less than 100 g/ml, which can then be further diluted to other aqueous solutions.
<b>Specific Activity</b>	The ED <sub>50</sub> , calculated by the dose-dependant stimulation of the proliferation of murine M-NFS-60 indicator cells was found < 1 ng/ml, corresponding to a Specific Activity of 1 x 10 <sup>6</sup> IU/mg.
<b>Stability</b>	Lyophilized M-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MCSF should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Csf1 colony stimulating factor 1 (macrophage) [ Mus musculus ]</a>
<b>Synonyms</b>	Csf1; colony stimulating factor 1 (macrophage); op; Csfm; CSF-1; M-CSF; C87615; colony stimulating factor 1; osteopetrosis; colony-stimulating factor-1
<b>Gene ID</b>	<a href="#">12977</a>
<b>mRNA Refseq</b>	<a href="#">NM_001113529</a>
<b>Protein Refseq</b>	<a href="#">NP_001107001</a>
<b>UniProt ID</b>	<a href="#">P07141</a>
<b>Chromosome Location</b>	3 F3; 3 51.0 cM
<b>Pathway</b>	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage

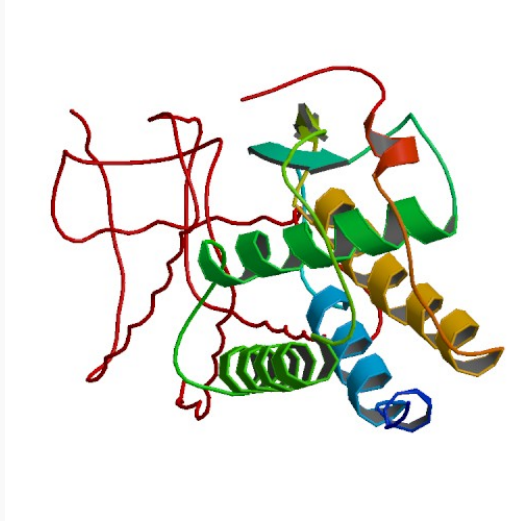
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**Function** cytokine activity; growth factor activity; macrophage colony stimulating factor receptor binding; protein binding

**PDB rendering based on 1hmc.**



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