

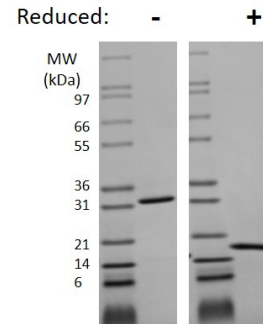
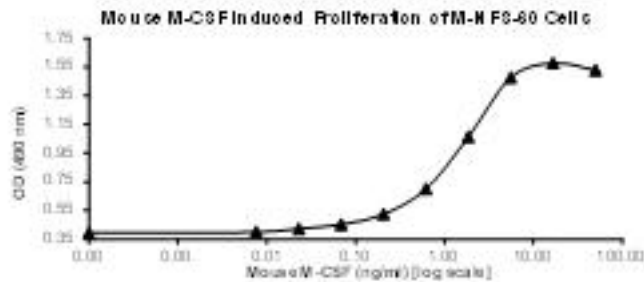
## Csf1

### Recombinant Mouse M-CSF

<b>Catalog No.</b>	CRM008A CRM008B CRM008C	<b>Quantity:</b>	2 µg 10 µg 1.0 mg
<b>Alternate Names:</b>	Macrophage Colony Stimulating Factor, CSF-1		
<b>Description:</b>	Macrophage Colony Stimulating Factor (M-CSF) is a hematopoietic cytokine/ growth factor produced by a wide variety of cells. M-CSF controls the production, differentiation, and function of macrophages. The active form of the protein is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. M-CSF acts through the CSF receptor 1.		
<b>Gene ID:</b>	12977		
<b>UniProt ID:</b>	P07141		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	Dimer, 18.2/36.4 kDa (156/312 aa)		
<b>Formulation:</b>	Lyophilized from a sterile-filtered aqueous solution containing 10mM sodium phosphate, 50 mM sodium chloride, pH 7.5.		
<b>Purity:</b>	≥ 95% by reducing and non-reducing SDS-PAGE		
<b>Endotoxin Level:</b>	≤ 1 EU/µg of protein by kinetic LAL		
<b>Biological Activity:</b>	ED <sub>50</sub> ≤ 10 ng/ml, determined by dose-dependent proliferation of M-NFS-60 cells.		
<b>Specific Activity:</b>	≥ 1.0 x 10 <sup>5</sup> U/mg		
<b>Amino Acid Sequence:</b>	MKEVSEHCSH MIGNGHLKVL QQLIDSQMET SCQIAFEFVD QEQLDDPVCY LKKAFFLVQD IIDETMRFKD NTPNANATER LQELSNNLNS CFTKDYEEQN KACVRTFHET PLQLLEKIKN FFNETKNLLE KDWNIFTKNC NNSFAKCSSR DVVTKP		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/ml. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. Allow several minutes for complete reconstitution. <b>DO NOT VORTEX.</b> Further dilution should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	Lyophilized product is stable at room temperature for shipping purposes. Store as supplied at -20°C to -80°C for up to 1 year.  Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, freeze in working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution. <b>Avoid repeated freeze-thaw cycles.</b>		



Figure 1: Serial dilutions of Mouse M-CSF, starting at 50 ng/mL, were added to NFS-60 cells. Cell proliferation was measured after 44 hours and the linear portion of the curve was used to calculate the ED50.



**Mouse M-CSF Gel**

Figure: 1 ug run under (+) reducing conditions and (-) non-reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse M-CSF is a homodimer with a total predicted MW of 36.4 kDa (18.2 kDa each monomer). The observed molecular weight of the dimer is between 31-36 kDa.

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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