

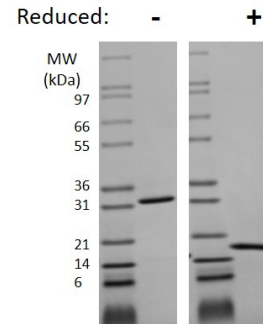
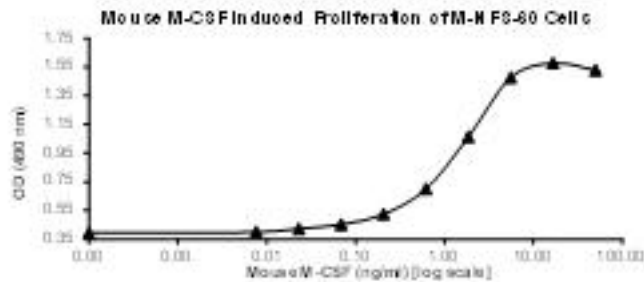
Csf1

Recombinant Mouse M-CSF, Animal Free

Catalog No.	CRM008A-AF CRM008B-AF CRM008C-AF	Quantity:	2 µg 10 µg 1.0 mg
Alternate Names:	Macrophage Colony Stimulating Factor, CSF-1		
Description:	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.		
Gene ID:	12977		
UniProt ID:	P07141		
Source:	<i>E. coli</i>		
Molecular Weight:	Dimer, 18.2/36.4 kDa (156/312 aa)		
Formulation:	Lyophilized from a sterile-filtered aqueous solution containing 10mM sodium phosphate, 50 mM sodium chloride, pH 7.5.		
Purity:	≥ 95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤ 1 EU/µg of protein by kinetic LAL		
Biological Activity:	ED ₅₀ ≤ 10 ng/ml, determined by dose-dependent proliferation of M-NFS-60 cells.		
Specific Activity:	≥ 1.0 x 10 ⁵ U/mg		
Amino Acid Sequence:	MKEVSEHCSH MIGNGHLKVL QQLIDSQMET SCQIAFEFVD QEQLDDPVCY LKKAFFLVQD IIDETMRFKD NTPNANATER LQELSNNLNS CFTKDYEEQN KACVRTFHET PLQLLEKIKN FFNETKNLLE KDWNIFTKNC NNSFAKCSSR DVVTKP		
Reconstitution:	Centrifuge vial prior to opening. 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. DO NOT VORTEX. Further dilution should be made in appropriate buffered solutions.		
Storage & Stability:	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. Avoid repeated freeze-thaw cycles.		



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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