

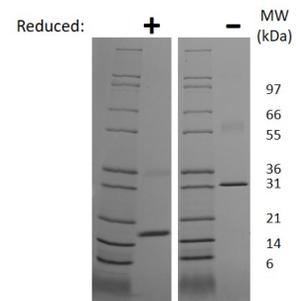
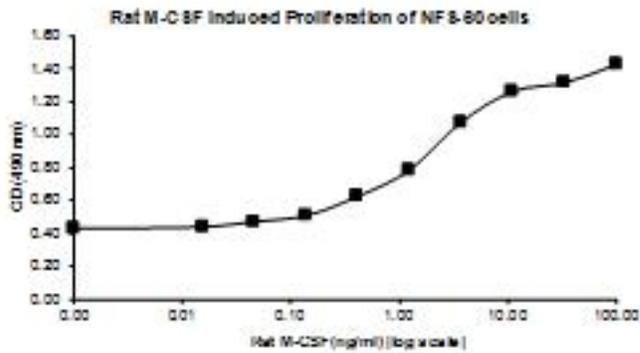
Csf1

Recombinant Rat M-CSF

Catalog No.	CRR307A CRR307B CRR307C	Quantity:	2 µg 100 µg 1 mg
Alternate Names:	Macrophage colony stimulating factor, MCSF, MGI-IM, CSF-1		
Description:	M-CSF is a hematopoietic growth factor that is widely produced by a variety of cells. M-CSF stimulates the proliferation and differentiation of hematopoietic stem cells into monocyte and macrophage cell types. M-CSF also acts through the colony stimulating factor 1 receptor (CSF1R) to modulate processes involved in immunology, bone metabolism, fertility, and pregnancy.		
Gene ID:	78965		
UniProt ID:	Q8JZQ0		
Source:	<i>E. coli</i>		
Molecular Weight:	Dimer, 18.1/36.2 kDa (155/210 aa)		
Formulation:	Lyophilized from a sterile-filtered solution containing 10 mM sodium phosphate, pH 7.5		
Purity:	≥95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤1 EU/µg by kinetic LAL analysis		
Biological Activity:	ED ₅₀ ≤ 10 ng/ml, determined by dose-dependent proliferation of NFS-60 cells.		
Specific Activity:	≥ 1.0 x 10 ⁵ units/mg		
Amino Acid Sequence:	MEVSEHCSHM IGNGHLQILQ QLIDSQMETA CLIEYKFVDQ EQLDDPVCYL KKAFVLVQVI IEETMRFKDN TPANATERL QELSMKLNCS FIKDYKEQNE ACVQTYKESP LRLLEKIKNF FNETKNFLEK DWNIFSKNCN DSLAKCSSRD VVTKP		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to reconstitute to a recommended concentration of 0.1 mg/mL and gently pipet solution up and down sides of vial. DO NOT VORTEX. Allow several minutes for reconstitution.		
Storage & Stability:	Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. Avoid repeated freeze-thaw cycles.		



Figure 1: Serial dilutions of Rat M-CSF, starting at 100 ng/ml, were added to NFS-60 cells. Cell proliferation was measured after 68 hours and the linear portion of the curve was used to calculate the ED50.



Rat M-CSF Gel

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Rat M-CSF is a homodimer with a predicted MW of 36.2 kDa (each monomer is 18.1 kDa).

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

