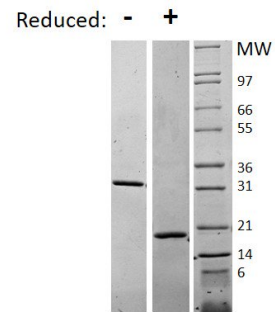
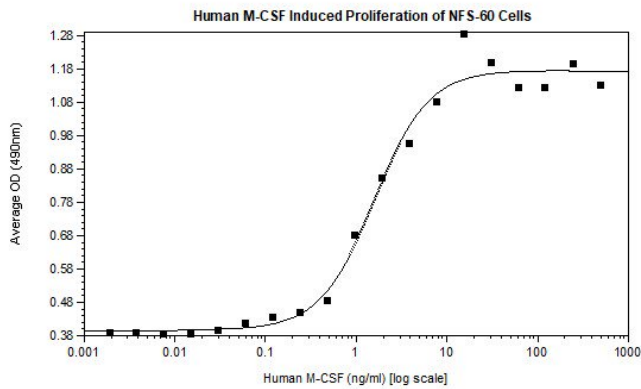


## CSF1

# Recombinant Human Macrophage Colony Stimulating Factor Animal Free

<b>Catalog No.</b>	CRM151B-AF CRM151C-AF CRM151D-AF	<b>Quantity:</b>	10 µg 1.0 mg 100 µg
<b>Alternate Names:</b>	M-CSF, CSF-1, MCSF		
<b>Description:</b>	<p>Macrophage Colony Stimulating Factor (M-CSF), also called CSF-1, is a hematopoietic growth factor that is involved in the proliferation, differentiation, and survival of monocytes, macrophages, and bone marrow progenitor cells. It is produced by osteoblasts (as a result of endocrine stimulation by parathyroid hormone), exerts paracrine effects on osteoclasts, and can interact with CSF1R. M-CSF is a four α-helical bundle cytokine and its active form is found extracellularly as a disulfide-linked homodimer thought to be produced by proteolytic cleavage of membrane-bound precursors.</p> <p><b>Made without animal-derived components in an animal-free facility.</b></p>		
<b>UniProt (ID):</b>	P09603		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	18.5/37.1 kDa (159/318 aa) dimer		
<b>Formulation:</b>	Lyophilized from a sterile filtered solution in 10 mM sodium phosphate, 100 mM sodium chloride, pH 8.0.		
<b>Purity:</b>	>95% by reducing and non-reducing SDS-PAGE		
<b>Endotoxin Level:</b>	≤ 0.1 EU/µg by kinetic LAL analysis		
<b>Biological Activity:</b>	ED <sub>50</sub> ≤10 ng/ml, determined by a cell proliferation assay using mouse NFS-60 cells.		
<b>Specific Activity:</b>	<p>≥ 1 x 10<sup>5</sup> units/mg</p> <p>The WHO International Standard (NIBSC code: 89/512) for rhM-CSF was tested in the in-house assay. To convert the in-house specific activity value to specific activity in International units (IU), multiply by 0.60</p>		
<b>Amino Acid Sequence:</b>	<p>MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEHD KACVRTFYET PLQLLEKVKN VFNETKNLLD KDOWNIFSKNC NNSFAECSSQ GHERQSEGS</p>		
<b>Reconstitution:</b>	<p><b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/mL. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution. Further dilutions should be made in appropriate buffered solutions.</p>		
<b>Storage &amp; Stability:</b>	<p>Store as supplied at -20 °C to -80 °C for up to one year. Upon reconstitution, preparation is stable for one month at 2-8 °C. For longer term, prepare working aliquots containing 0.1% BSA and store at -20 °C to -80 °C. <b>Avoid repeated freeze-thaw cycles.</b></p>		





## Human M-CSF

Figure: 1 ug run under (+) reducing conditions and (-) non-reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human M-CSF is a homodimer with a total predicted MW of 37.1 kDa.

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



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