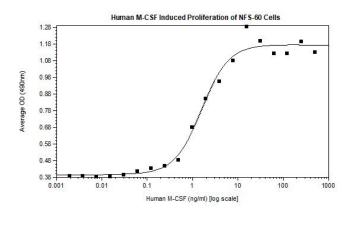
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CSF1 Recombinant Human Macrophage Colony Stimulating Factor

Catalog No.	CRM151B CRM151C CRM151D	Quantity:	10 µg 1.0 mg 100 µg
Alternate Names: Description:	M-CSF, CSF-1, MCSF 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.		
UniProt ID:	P09603		
Source:	E. coli		
Molecular Weight:	18.5/37.1 kDa (159/318 aa) dimer		
Formulation:	Lyophilized from a sterile filtered solution in 10 mM sodium phosphate, 100 mM sodium chloride, pH 8.0.		
Purity:	>95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤ 0.1 EU/μg by kinetic LAL analysis		
Biological Activity:	$ED_{50} \leq 10$ ng/ml, determined by a cell proliferation assay using mouse NFS-60 cells.		
Specific Activity:	≥ 1×10^5 units/mg 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		
Amino Acid Sequence:	MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD KACVRTFYET PLQLLEKVKN VFNETKNLLD KDWNIFSKNC NNSFAECSSQ GHERQSEGS		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL. DO NOT VORTEX. Allow several minutes for complete reconstitution. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	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. Avoid repeated freeze-thaw cycles.		

Toll Free: 888-769-1246 Phone: 978-572-1070 Fax: 978-992-0298

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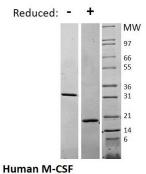


Figure: 1 ug run under (+) reducing conditions and (-) non-reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human M-CSF is a homodimer with a total predicted MW of 37.1 kDa.

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



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