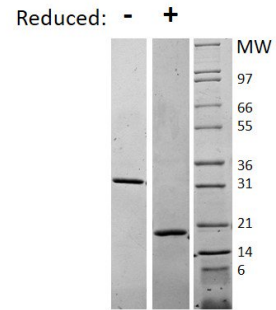
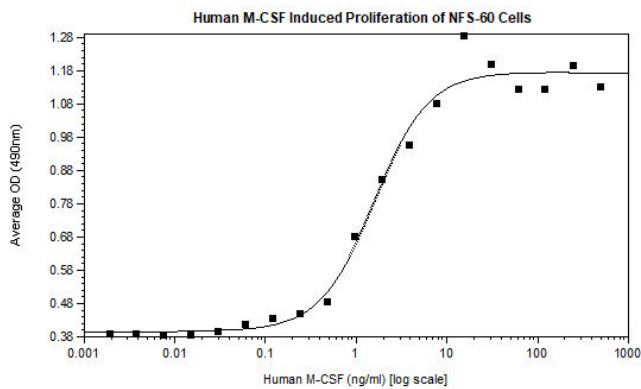


CSF1

Recombinant Human Macrophage Colony Stimulating Factor

| | | | |
|---------------------------------|--|------------------|-------------------------|
| Catalog No. | CRM151A CRM151B CRM151C | Quantity: | 2 µg 10 µg 1.0 mg |
| Alternate Names: | M-CSF, CSF-1, MCSF | | |
| Description: | 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. | | |
| Gene ID: | 1435 | | |
| UniProt ID: | P09603 | | |
| Source: | <i>E. coli</i> | | |
| Molecular Weight: | Dimer, 18.5/37.1 kDa (159/318 aa) | | |
| 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: | ≤1 EU/µg by kinetic LAL | | |
| Biological Activity: | ED ₅₀ ≤10 ng/ml, determined by a cell proliferation assay using mouse NFS-60 cells. | | |
| Specific Activity: | ≥ 1 x 10 ⁵ units/mg, calibrated against recombinant human M-CSF WHO International Standard (NIBSC code: 89/512). | | |
| Amino Acid Sequence: | MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEED KACVRTFYET PLQLLEKVKN VFNETKNLLD KDOWNIFSKNC 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. | | |





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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