

# Recombinant Human Colony Stimulating Factor 1 (macrophage)

**Cat. No.** CSF1-339H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human CSF1 was expressed in E. coli and purified recombinant Human CSF1 protein.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	CSF1 is a potent hematopoietic factor produced by a variety of cells including lymphocytes, monocytes, fibroblasts, endothelial cells, myoblasts and osteoblasts. It is a key regulator of cellular proliferation, differentiation, and survival of blood monocytes, tissue macrophages and their progenitor cells. CSF1 has been shown to play important roles in modulating dermal thickness, and male and female fertility. CSF1 is clinically used in the treatment of infection, malignancies and atherosclerosis. It facilitates hematopoietic recovery after bone marrow transplantation.
<b>Form</b>	Supplied as lyophilized powder.
<b>Purity</b>	> 98% pure by SDS-PAGE and HPLC
<b>Sequence</b>	Region of M-CSF protein corresponding to amino acids MEVSEHC SHM IGNGHLQILQ QLIDSQ METACLIEYKFVDQ EQLDDPVCYL KKAFVLVQVI IEETMRFKDN TPNANATERL QELSMKLN SC FIKDYKEQNEACVQTYKESP LRLLEKIKNF FNETKNFLEK DWNIFSKNCN DSLAKCSSRD VVTKP.

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<b>Molecular Mass</b>	18.1 kDa
<b>Applications</b>	Numerous applications are possible with this product and should be tested by the enduser under their own laboratory conditions.
<b>Storage</b>	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 degC for long term storage. Avoid repeated freeze/thaw cycles.
<b>Official Symbol</b>	CSF1

## GENE INFORMATION

<b>Gene Name</b>	CSF1 colony stimulating factor 1 (macrophage) [ Homo sapiens ]
<b>Synonyms</b>	CSF1; colony stimulating factor1 (macrophage); MCSF; MGC31930; colony stimulating factor 1; OTTHUMP00000013363; OTTHUMP00000013364; macrophage colony stimulating factor; M-CSF; CSF-1; Lanimostim; OTTHUMP00000013362
<b>Gene ID</b>	1435
<b>mRNA Refseq</b>	NM_000757
<b>Protein Refseq</b>	NP_000748
<b>MIM</b>	120420
<b>UniProt ID</b>	P09603
<b>Chromosome Location</b>	1p21-p13
<b>Pathway</b>	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage;

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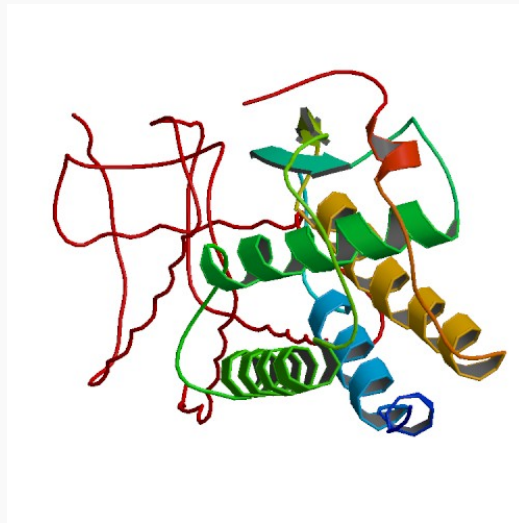
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Osteoclast differentiation; Rheumatoid arthritis; Signaling events mediated by PTP1B; Signaling events mediated by TCPTP

**Function**

cytokine activity; growth factor activity; macrophage colony stimulating factor receptor binding; protein binding; protein homodimerization activity

**PDB rendering based on 1hmc.**



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