

Recombinant Human Colony Stimulating Factor 1 (macrophage)

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

SPECIFICATION

Product Overview	Recombinant human CSF1 was expressed in E. coli and purified recombinant Human CSF1 protein.
Species	Human
Source	Human
Description	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.
Form	Supplied as lyophilized powder.
Purity	> 98% pure by SDS-PAGE and HPLC
Sequence	Region of M-CSF protein corresponding to amino acids MEVSEHCSHM IGNGHLQILQ QLIDSQMETACLIEYKFVDQ EQLDDPVCYL KKAFLVLQVI IEETMRFKDN TPNANATERL QELSMKLNCS FIKDYKEQNEACVQTYKESP LRLLKIKNF FNETKNFLEK DWNIFSKNCN DSLAKCSSRD VVTKP.

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

GENE INFORMATION

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

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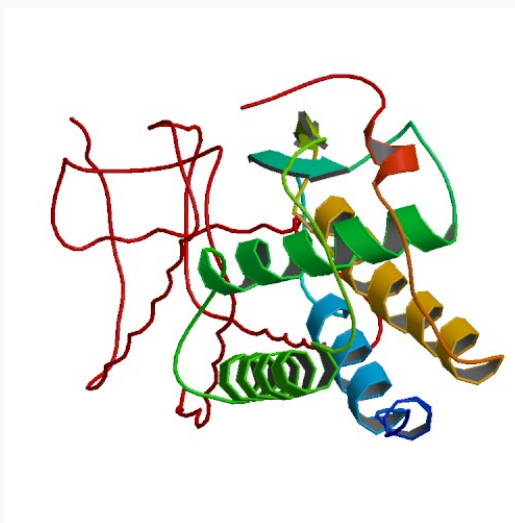
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Osteoclast differentiation; Rheumatoid arthritis; Signaling events mediated by PTP1B; Signaling events mediated by TCPTP

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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