

Active Recombinant Mouse Csf1 protein

Cat. No. Csf1-290M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Csf1 was expressed in E. coli.

Species Mouse

Source E.coli

ProteinLength 156 amino acid

Description M-CSF 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. M-CSF has been shown to play important roles in modulating dermal thickness, and male and female fertility. M-CSF is clinically used in the treatment of infection, malignancies and atherosclerosis. It facilitates hematopoietic recovery after bone marrow transplantation. The human is reactive in murine systems, but the murine molecule exhibits no activity on human cells.

Form Sterile filtered through a 0.2 micron filter. Lyophilized from 5mM Sodium, Phosphate, pH 8.0 + 100mM NaCl.

Bio-activity The ED50 as determined by the dose-dependent stimulation of the proliferation of M-NFS-60 cells is < 1.0 ng/ml, corresponding to a specific activity of > 1 x 10⁶ units/mg.

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Molecular Mass	36.4 kDa
AA Sequence	MKEVSEHCS HMIGNGHLK VLQQLIDSQ METSCQIAF EFVDQEQLD DPVCYLKKA FFLVQDIID ETMRFKDNT PNANATERL QELSNLNS CFTKDYEEQ NKACVRTFH ETPLQLLEK IKNFFNETK NLLEKDWNI FTKNCNNSF AKCSSRDVV TKP
Endotoxin	< 0.10 ng/ug of protein(< 1 EU/ug)
Purity	Above 98% as determined by SDS-PAGE Analysis.
Storage	Store product at -20 centigrade.
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-0.5 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20 centigrade to -80 centigrade.

GENE INFORMATION

Gene Name	Csf1 colony stimulating factor 1 (macrophage) [<i>Mus musculus</i>]
Official Symbol	Csf1
Synonyms	CSF1; colony stimulating factor 1 (macrophage); macrophage colony-stimulating factor 1; osteopetrosis; op; Csfm; MCSF; C87615;
Gene ID	12977
mRNA Refseq	NM_001113529
Protein Refseq	NP_001107001

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MIM	
UniProt ID	P07141
Chromosome Location	3 46.83 cM; 3 F3
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response (Bi centigradearta), organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Osteoclast differentiation, organism-specific biosystem; Osteoclast differentiation, conserved biosystem;
Function	cytokine activity; growth factor activity; macrophage colony-stimulating factor receptor binding; protein binding; protein homodimerization activity; protein homodimerization activity;

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