

## Active Recombinant Mouse Csf1 Protein

**Cat. No.** Csf1-042M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of Mouse colony stimulating factor 1 (macrophage) (Csf1), transcript variant 2 without tag was expressed in E.coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Cytokine that plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. Promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. Plays an important role in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone development. Required for normal male and female fertility. Promotes reorganization of the actin cytoskeleton, regulates formation of membrane ruffles, cell adhesion and cell migration. Plays a role in lipoprotein clearance.
<b>Bio-activity</b>	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 10 <sup>6</sup> units/mg.
<b>Molecular Mass</b>	36.4 kDa
<b>AA Sequence</b>	MKEVSEHCSHMIGNHGLKVLQQLIDSQMETSCQIAFEFVDQEQLDDPVCYLKKAFFL VQDIIDETMRFKDNTPNANATERLQELSNLNSCFTKDYEEQNKACVRTFHETPLQL

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<b>Endotoxin</b>	Endotoxin level is < 0.1 ng/g of protein (< 1 EU/g)
<b>Purity</b>	>95%, as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade.
<b>Storage Buffer</b>	Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
<b>Reconstitution</b>	Resuspend the protein in the desired concentration in proper buffer.

## GENE INFORMATION

<b>Gene Name</b>	Csf1 colony stimulating factor 1 (macrophage) [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Csf1
<b>Synonyms</b>	Csf1; colony stimulating factor 1 (macrophage); op; Csfm; MCSF; C87615; macrophage colony-stimulating factor 1; osteopetrosis; EC 2.7.10.1
<b>Gene ID</b>	12977
<b>mRNA Refseq</b>	NM_001113529
<b>Protein Refseq</b>	NP_031804

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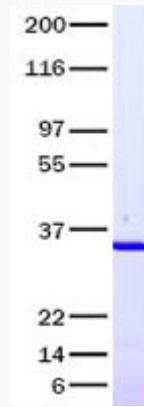
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UniProt ID

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