

## Active Recombinant Mouse Csf1 Protein

Cat. No. Csf1-041M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of Mouse colony stimulating factor 1 (macrophage) (Csf1), transcript variant 3 (Lys33-Glu262) without tag was expressed in HEK293.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	33-262 a.a.
<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 is 2 - 6 ng/ml, corresponding to a specific activity of 1.6 - 5 x 10 <sup>5</sup> units/mg, determined by M-NFS60 cell proliferation induced by mouse M-CSF in a dose dependent manner.
<b>Molecular Mass</b>	28.2 kDa

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<b>Endotoxin</b>	Less than 0.01 ng per g protein as determined by the LAL method
<b>Purity</b>	>98%, as determined by Coomassie stained SDS-PAGE.
<b>Stability</b>	Unopened vial can be stored between 2 centigrade and 8 centigrade for up to 2 weeks, at -20 centigrade for up to 6 months, or at -70 centigrade or below until the expiration date. Aliquots can be stored between 2 centigrade and 8 centigrade for up to one week and stored at -20 centigrade or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	Protein formulated and vialled at >50 ug/mL in specified buffer
<b>Storage Buffer</b>	1 x PBS

## 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_001113530
<b>Protein Refseq</b>	NP_001107002

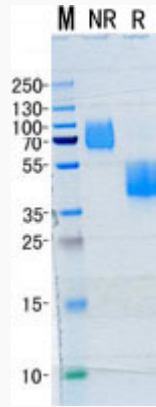
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UniProt ID

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