

Active Recombinant Mouse Csf1 Protein

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

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse colony stimulating factor 1 (macrophage) (Csf1), transcript variant 3 (Lys33-Glu262) without tag was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	33-262 a.a.
Description	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.
Bio-activity	The ED50 is 2 - 6 ng/ml, corresponding to a specific activity of $1.6 - 5 \times 10^5$ units/mg, determined by M-NFS60 cell proliferation induced by mouse M-CSF in a dose dependent manner.
Molecular Mass	28.2 kDa

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Endotoxin	Less than 0.01 ng per g protein as determined by the LAL method
Purity	>98%, as determined by Coomassie stained SDS-PAGE.
Stability	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.
Storage	Store at -80 centigrade.
Concentration	Protein formulated and vialled at >50 ug/mL in specified buffer
Storage Buffer	1 x PBS

GENE INFORMATION

Gene Name	Csf1 colony stimulating factor 1 (macrophage) [Mus musculus (house mouse)]
Official Symbol	Csf1
Synonyms	Csf1; colony stimulating factor 1 (macrophage); op; Csfm; MCSF; C87615; macrophage colony-stimulating factor 1; osteopetrosis; EC 2.7.10.1
Gene ID	12977
mRNA Refseq	NM_001113530
Protein Refseq	NP_001107002

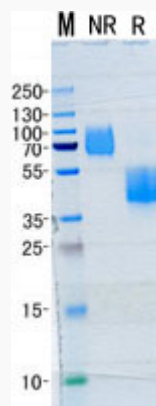
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UniProt ID

P07141



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