

Active Recombinant Mouse Csf1 Protein

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

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse colony stimulating factor 1 (macrophage) (Csf1), transcript variant 2 without tag was expressed in E.coli.
Species	Mouse
Source	E.coli
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 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 ⁶ units/mg.
Molecular Mass	36.4 kDa
AA Sequence	MKEVSEHCSHMIGNGHLKVLQQLIDSQMETSCQIAFEFVDQEQLDDPVCYLKKAFFL VQDIIDETMRFKDNTNPANATERLQELSNLNSCFTKDYEEQNKACVRTFHETPLQL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LEKIKNFFNETKNLLEKDOWNIFTKNCNNSFAKCSSRDVVTKP

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

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_001113529
Protein Refseq	NP_031804

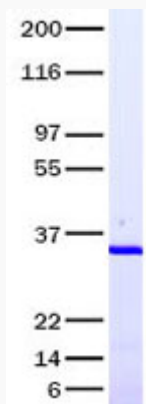
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UniProt ID

P07141

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