

Recombinant Rat Csf1

Cat. No. Csf1-15R **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | Recombinant Rat Macrophage colony-stimulating factor 1/MCSF/Csf1 produced by transfected human cells is a secreted protein with sequence (Gln33-Arg254) of Rat MCSF. |
| Species | Rat |
| Source | Human Cells |
| ProteinLength | 33-254 a.a. |
| Description | Rat Macrophage colony-stimulating factor 1(MCSF,CSF1) is a single-pass type I membrane cytokine. It is a hematopoietic growth factor 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. MCSF promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. It is involved in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone development which for normal male and female fertility. It promotes reorganization of the actin cytoskeleton, regulates formation of membrane ruffles, cell adhesion and cell migration. MCSF also plays a role in lipoprotein clearance. |
| Form | Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4 |
| AA Sequence | EVSEHC SHMIGNGHLQILQQLIDSQMETACLIEYKFVDQEQLDDPVCYLKKAFLVQ |

 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

VIIIEETMR FKDNTPNANATERLQELSMKLNSCFIKDYKEQNEACVQTYKESPLRLLLE
 KIKNFFNETKNFLEKD WNIFSKNCNDSFAKCSSRDVVTKPDCNCLYPKATPSSDLAS
 ASPHQPPAPSMAPLADLAWDDSQR TEGSSLLPSDLPLRIEDPGSAKQRPPR

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| Endotoxin | Less than 0.1 ng/g (1 IEU/g). |
| Purity | Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE. |
| Storage | Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Reconstitution | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

GENE INFORMATION

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| Gene Name | Csf1 colony stimulating factor 1 (macrophage) [<i>Rattus norvegicus</i> (Norway rat)] |
| Official Symbol | Csf1 |
| Synonyms | Csf1; colony stimulating factor 1 (macrophage); macrophage colony-stimulating factor 1; CSF-1; MCSF; NP_076471.3; EC 2.7.10.1 |
| Gene ID | 78965 |
| mRNA Refseq | NM_023981 |
| Protein Refseq | NP_076471 |

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|----------------------------|--|
| UniProt ID | Q8JZQ0 |
| Chromosome Location | 2q34 |
| Pathway | Cytokine-cytokine receptor interaction; Cytokines and Inflammatory Response (BioCarta); Hematopoietic cell lineage |
| Function | cytokine activity; growth factor activity; macrophage colony-stimulating factor receptor binding |

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