

## Active Recombinant Rat Csf1

**Cat. No.** Csf1-12R    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Csf1 was expressed in E. coli.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>Description</b>	The colony stimulating factor 1 (CSF1), also known as macrophage colony-stimulating factor (M-CSF), is a secreted cytokine which influences hematopoietic stem cells to differentiate into macrophages or other related cell types. Eukaryotic cells also produce M-CSF in order to combat intercellular viral infection. (See colony-stimulating factor.) M-CSF binds to the Colony stimulating factor 1 receptor. It may also be involved in development of the placenta.
<b>Bio-activity</b>	ED50 was determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells is less than or equal to 5.0 ng/ml, corresponding to a specific activity of $>2 \times 10^5$ units/mg.
<b>Molecular Mass</b>	18.1 kDa
<b>AA Sequence</b>	MEVSEHCSHMIGNGHLQILQQLIDSQMETACLIEYKFVDQEQLDDPVCYLKKAFLV QVIIIEETMRFKDNTPNAN ATERLQELSMKLNSCFIKDYKEQNEACVQTYKESPLRLL EKIKNFFNETKNFLEKDOWNIFSKNCNDSLAKCSSRD VVTKP
<b>Endotoxin</b>	Endotoxin level is $<0.1$ ng/g of protein ( $<1$ EU/g).

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<b>Purity</b>	>95% as determined by SDS-PAGE and Coomassie blue staining
<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
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	Csf1 colony stimulating factor 1 (macrophage) [ Rattus norvegicus (Norway rat) ]
<b>Official Symbol</b>	Csf1
<b>Synonyms</b>	Csf1; colony stimulating factor 1 (macrophage); macrophage colony-stimulating factor 1; CSF-1; MCSF; NP_076471.3; EC 2.7.10.1
<b>Gene ID</b>	<a href="#">78965</a>
<b>mRNA Refseq</b>	<a href="#">NM_023981</a>
<b>Protein Refseq</b>	<a href="#">NP_076471</a>
<b>UniProt ID</b>	<a href="#">Q8JZQ0</a>
<b>Chromosome Location</b>	2q34
<b>Pathway</b>	Cytokine-cytokine receptor interaction; Cytokines and Inflammatory Response (BioCarta); Hematopoietic cell lineage
<b>Function</b>	cytokine activity; growth factor activity; macrophage colony-stimulating factor receptor binding

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