

Active Recombinant Rat Csf1

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

SPECIFICATION

Product Overview	Recombinant Rat Csf1 was expressed in E. coli.
Species	Rat
Source	E.coli
Description	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.
Bio-activity	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.
Molecular Mass	18.1 kDa
AA Sequence	MEVSEHCSHMIGNGHLQILQQLIDSQMETACLIEYKFVDQEQLDDPVCYLKKAFVLV QVIIETMRFKDNTNPAN ATERLQELSMKLNSCFIKDYKEQNEACVQTYKESPLRLL EKIKNFFNETKNFLEKDOWNIFSKNCNDSLAKCSSRD VVTKP
Endotoxin	Endotoxin level is <0.1 ng/g of protein (<1 EU/g).

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Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
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) [Rattus norvegicus (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
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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