

# Active Recombinant Rat Csf1

**Cat. No.** Csf1-14R    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Csf1 was expressed in CHO.
<b>Species</b>	Rat
<b>Source</b>	CHO
<b>Description</b>	Macrophage-Colony Stimulating Factor (M-CSF), also known as Colony Stimulating Factor-1 (CSF-1), can stimulate the survival, proliferation and differentiation of mononuclear phagocytes, in addition to the spreading and motility of macrophages. M-CSF is mainly produced by monocytes, macrophages, fibroblasts, and endothelial cells. M-CSF interaction with its receptor, c-fms, has been implicated in the growth, invasion, and metastasis of several diseases, including breast and endometrial cancers.
<b>Form</b>	White Freeze-dried Powder. Lyophilized after extensive dialysis against PBS.
<b>Bio-activity</b>	ED50 < 2.5 ng/ml, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of > 4×10 <sup>5</sup> units/mg.
<b>Molecular Mass</b>	32-40 kDa, observed by non-reducing SDS-PAGE.
<b>AA Sequence</b>	EVSEHCSHMI GNGHLQILQQ LIDSQMETAC LIEYKFVDQEQLDDPVCYLK KAFVLVQVII EETMRFKDNT PNANATERLQELSMKLNCSF IKDYKEQNEA CVQTYKESPL RLLEKIKNFFNETKNFLEKD WNIFSKNCND SLAKCSSRDV VTKP

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<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<b>Storage</b>	Lyophilized recombinant Rat Macrophage-Colony Stimulating Factor (M-CSF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rrM-CSF should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/ml.

## GENE INFORMATION

<b>Gene Name</b>	<i>Csf1</i> colony stimulating factor 1 (macrophage) [ <i>Rattus norvegicus</i> (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>	78965
<b>mRNA Refseq</b>	NM_023981
<b>Protein Refseq</b>	NP_076471
<b>UniProt ID</b>	Q8JZQ0
<b>Chromosome Location</b>	2q34
<b>Pathway</b>	Cytokine-cytokine receptor interaction; Cytokines and Inflammatory Response

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(BioCarta); Hematopoietic cell lineage

**Function**

cytokine activity; growth factor activity; macrophage colony-stimulating factor receptor binding

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