

## Active Recombinant Rat Csf2

**Cat. No.** Csf2-8907R    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Csf2 was expressed in CHO Cells.
<b>Species</b>	Rat
<b>Source</b>	CHO
<b>Description</b>	Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) was initially characterized as a growth factor that can support the in vitro colony formation of granulocyte-macrophage progenitors. Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) is produced by a number of different cell types, including activated T cells, B cells, macrophages, mast cells, endothelial cells, and fibroblasts, in response to cytokine of immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) is a growth factor for erythroid, megakaryocyte, and eosinophil progenitors. On mature hematopoietic, monocytes/macrophages and eosinophils.
<b>Form</b>	Lyophilized after extensive dialysis against PBS.
<b>Bio-activity</b>	ED50 < 5 pg/ml, measured in a cell proliferation assay using fdc-p1 cells, corresponding to a specific activity of >2x10 <sup>8</sup> units/mg.
<b>Molecular Mass</b>	16-26 kDa, observed by non-reducing SDS-PAGE.
<b>AA Sequence</b>	Ala18-Lys144.

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<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL>
<b>Purity</b>	>95% as analyzed by SDS-PAGE and HPLC.
<b>Storage</b>	Lyophilized recombinant protein remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rrGM-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>	<a href="#">Csf2 colony stimulating factor 2 (granulocyte-macrophage) [ Rattus norvegicus ]</a>
<b>Official Symbol</b>	<a href="#">Csf2</a>
<b>Synonyms</b>	CSF2; colony stimulating factor 2 (granulocyte-macrophage); granulocyte-macrophage colony-stimulating factor; CSF; colony-stimulating factor; Gmcsf; Gm-csf;
<b>Gene ID</b>	<a href="#">116630</a>
<b>mRNA Refseq</b>	<a href="#">NM_053852</a>
<b>Protein Refseq</b>	<a href="#">NP_446304</a>
<b>UniProt ID</b>	<a href="#">P48750</a>
<b>Pathway</b>	Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response (BioCarta),

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organism-specific biosystem; Fc epsilon RI signaling pathway, organism-specific biosystem;

**Function**

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

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