

## Active Recombinant Rat Csf2 Protein

**Cat. No.** Csf2-274C    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Csf2 Protein without tag was expressed in CHO.
<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>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	ED50 < 5 pg/mL, measured in a cell proliferation assay using FDC-P1 cells, corresponding to a specific activity of > 2 × 10 <sup>8</sup> units/mg.
<b>Molecular Mass</b>	16-26 kDa, observed by non-reducing SDS-PAGE.
<b>AA Sequence</b>	APTRSPNPVTRPWKHVDAIKEALSLNDRALENEKNEVDVIISNEFSIQRPTCVQTR LKLYKQGLRGNLTKLNGALTMIA SHYQTNCPPTPETDCEIEVTTTFEDFIKLNKGLFDI

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	PFDCWKPVQK
<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<b>Storage</b>	Lyophilized recombinant Rat Granulocyte Macrophage-Colony Stimulating Factor (GM-CSF) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rrGM-CSF should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.

## GENE INFORMATION

<b>Gene Name</b>	Csf2 colony stimulating factor 2 (granulocyte-macrophage) [ <i>Rattus norvegicus</i> ]
<b>Official Symbol</b>	Csf2
<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>	116630
<b>mRNA Refseq</b>	NM_053852
<b>Protein Refseq</b>	NP_446304
<b>UniProt ID</b>	P48750

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