

Active Recombinant Rat Csf2

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

SPECIFICATION

Product Overview	Recombinant Rat Csf2 was expressed in CHO Cells.
Species	Rat
Source	CHO
Description	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.
Form	Lyophilized after extensive dialysis against PBS.
Bio-activity	ED ₅₀ < 5 pg/ml, measured in a cell proliferation assay using fdc-p1 cells, corresponding to a specific activity of > 2 × 10 ⁸ units/mg.
Molecular Mass	16-26 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	Ala18-Lys144.

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Endotoxin	< 0.2 EU/μg, determined by LAL
Purity	>95% as analyzed by SDS-PAGE and HPLC.
Storage	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.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/ml.

GENE INFORMATION

Gene Name	Csf2 colony stimulating factor 2 (granulocyte-macrophage) [<i>Rattus norvegicus</i>]
Official Symbol	Csf2
Synonyms	CSF2; colony stimulating factor 2 (granulocyte-macrophage); granulocyte-macrophage colony-stimulating factor; CSF; colony-stimulating factor; Gmcsf; Gm-csf;
Gene ID	116630
mRNA Refseq	NM_053852
Protein Refseq	NP_446304
UniProt ID	P48750
Pathway	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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