

Active Recombinant Rat Csf2 Protein

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

SPECIFICATION

Product Overview	Recombinant Rat Csf2 Protein without tag was expressed in CHO.
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	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 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	APTRSPNPVTRPWKHVDAIKEALSLLNDMRALENEKNEDVDIISNEFSIQRPTCVQTR LKLYKQGLRGNLTKLNGALTMIA SHYQTNCPTPETDCEIEVTTTFEDIKLNKGFLFDI

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	PFDCWKPVQK
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	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.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Csf2 colony stimulating factor 2 (granulocyte-macrophage) [Rattus norvegicus]
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

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