

Recombinant Human Colony Stimulating Factor 2 (granulocyte-macrophage), His-tagged

Cat. No. CSF2-383H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant humanCSF2 is a single, glycosylated polypeptide chain containing 127 amino acidsand fused to a C-terminal His tag.
Species	Human
Source	Insect Cells
Description	Granulocyte-macrophagecolony-stimulating factor, often abbreviated to CSF2, is a protein secretedby macrophages, T cells, mast cells, endothelial cells, and fibroblasts. CSF2is a cytokine that functions as a white blood cell growth factor. CSF2stimulates stem cells to produce granulocytes (neutrophils, eosinophils, andbasophils) and mono cytes. Monocytes exit the circulation and migrate intotissue, whereupon they mature i nto macrophages and dendritic cells.
Form	Lyophilized from asterile filtered solution without additives.
Molecular Weight	14.5 kDa
Purity	> 98% asdetermined by RP-HPLC and SDS-PAGE analyses.
Endotoxin Level	< 0.1 ng/g ofGM-CSF.
Biological Activity	Determined by thedose-dependant stimulation of the proliferation of human TF-1 cells. The ED50is < 0.1 ng/ml.

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Reconstitution Centrifuge vial prior to opening. First add sterile distilled water to the vial to fully solubilize the protein to a concentration not less than 100 g/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.

Storage Store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1 week at 2-4°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein (0.1% HSA or BSA) as a stabilizer. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.

Official Symbol CSF2

GENE INFORMATION

Gene Name CSF2 colony stimulating factor 2 (granulocyte-macrophage) [Homo sapiens]

Synonyms CSF2; colony stimulating factor 2 (granulocyte-macrophage); GMCSF; MGC131935; MGC138897; granulocyte-macrophage colony-stimulating factor; CSF; molgramostin; sargramostim; OTTHUMP00000065962; colony-stimulating factor; granulocyte-macrophage colony stimulating factor

Gene ID 1437

mRNA Refseq NM_000758

Protein Refseq NP_000749

MIM 138960

UniProt ID P04141

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Chromosome Location	5q31.1
Pathway	Amoebiasis; Calcineurin-regulated NFAT-dependent transcription in lymphocytes; Calcium signaling in the CD4+ TCR pathway; Cytokine Signaling in Immune system; Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; Glucocorticoid receptor regulatory network; HTLV-I infection; Hematopoietic cell lineage; Interleukin-2 signaling; Jak-STAT signaling pathway; Natural killer cell mediated cytotoxicity; Rheumatoid arthritis; Salmonella infection; T cell receptor signaling pathway
Function	cytokine activity; granulocyte macrophage colony-stimulating factor receptor binding; growth factor activity; protein binding
PDB rendering based on 2gmf.	

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