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 pr otein 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/μg 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 vialprior to opening. First add sterile distilled water to the vial to fullysolubilize the protein to a concentration not less than 100 g/ml. Aftercomplete solubilization of the protein, it can be further diluted to otheraqueous solutions.
Storage	Store lyophilizedprotein 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 carrierprotein (0.1% HSA or BSA) as a stabilizer. Please note that the addition ofany carrier protein into this product may produce unwanted endotoxin. Thisdepends upon the particular application employed. Avoid repeated freeze-thawcycles.
OfficialSymbol	CSF2

GENE INFORMATION

Gene Name	CSF2 colony stimulating factor 2(granulocyte-macrophage) [Homo sapiens]
Synonyms	CSF2; colonystimulating 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; Calciumsignaling 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; Hematopoieticcell lineage; Interleukin-2 signaling; Jak-STAT signaling pathway; Naturalkiller cell mediated cytotoxicity; Rheumatoid arthritis; Salmonellainfection; T cell receptor signaling pathway
Function	cytokine activity;granulocyte macrophage colony-stimulating factor receptor binding; growthfactor activity; protein binding
PDB rendering basedon 2gmf.	

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