

Active Recombinant Human GM-CSF

Cat. No. CSF2-95H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GM-CSF was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Human
Source	Yeast
Description	Granulocyte-macrophage colony-stimulating factor (GM-CSF) is a protein secreted by macrophages, T cells, mast cells, NK cells, endothelial cells and fibroblasts. GM-CSF stimulates stem cells to produce granulocytes (neutrophils, eosinophils, and basophils) and monocytes. Granulocyte macrophage–colony stimulating factor (GM-CSF) is secreted in response to inflammatory stimuli such as LPS, IL-1, and TNF- α by a variety of different cells, including endothelium, fibroblasts, muscle cells, and macrophages, and by activated T cells. GM-CSF is glycosylated in its mature form.
Form	Lyophilized
Bio-activity	The biological activity of recombinant human GM-CSF was measured in a cell proliferation assay using the human TF-1 cell line. The ED50 for this effect is typically 0.1 - 0.2 ng/mL.
Molecular Mass	14.5 kDa
AA Sequence	APARSPSPST QPWEHVNAIQ EARRLLNLSR DTAEMNETV EVISEMFDLQ EPTCLQTRLE LYKQGLRGSL TKLKGPLTMM ASHYKQHCPP TPETSCATQI

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ITFESFKENL KDFLLVIPFD CWEPVQE (127)

Applications

The GM-CSF protein can be used in cell culture, as a GM-CSF ELISA Standard, and as a Western Blot Control.

Storage

-20 C

GENE INFORMATION

Gene Name

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

Official Symbol

CSF2

Synonyms

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

Gene ID

1437

mRNA Refseq

NM_000758

Protein Refseq

NP_000749

MIM

138960

UniProt ID

P04141

Chromosome Location

5q23-q31

Pathway

Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem;

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Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Calcium signaling in the CD4+ TCR pathway, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;

Function

cytokine activity; granulocyte macrophage colony-stimulating factor receptor binding; growth factor activity; protein binding;

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