

Active Recombinant Human CSF2

Cat. No. CSF2-22H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GM-CSF is a 14 to 36 kDa globular protein consisting of 128 amino acids, containing two intramolecular disulfide bonds and two N-linked glycosylation sites.
Species	Human
Source	CHO
Description	The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes and macrophages. The active form of the protein is found extracellularly as a homodimer. This gene has been localized to a cluster of related genes at chromosome region 5q31, which is known to be associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. Other genes in the cluster include those encoding interleukins 4, 5, and 13.
Form	0.22 um filtered solution in 20 mM TRIS*HCl buffer pH 7.2
Bio-activity	ED50<1 ng/ml, The activity was determined by the dose dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line)
Molecular Mass	14-36 kDA, glycosylated
AA Sequence	APARSPSPSTQPWEHVNAIQEARRLLNLSRDAAEMNETVEVISEMFDLQEPTCLQT RLELYKQGLRGSLTKLKG PLTMMASHYKQHCPPTPETSCATQIITFESFKENLKDFL LVIPFDCWEPVQE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, Determined by SDS-PAGE under reducing conditions and visualized by silver stain.
GENE INFORMATION	
Gene Name	CSF2 colony stimulating factor 2 (granulocyte-macrophage) [Homo sapiens (human)]
Official Symbol	CSF2
Synonyms	CSF2; colony stimulating factor 2 (granulocyte-macrophage); GMCSF; MGC131935; MGC138897; colony stimulating factor 2; molgramostin; sargramostim; granulocyte-macrophage colony stimulating factor; GM-CSF; Molgramostin; Sargramostim; Colony-stimulating factor
Gene ID	1437
mRNA Refseq	NM_000758
Protein Refseq	NP_000749
MIM	138960
UniProt ID	P04141
Chromosome Location	5q31.1
Pathway	Calcineurin-regulated NFAT-dependent transcription in lymphocytes; Cytokine

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Signaling in Immune system; Cytokines and Inflammatory Response

Function

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

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