

Active Recombinant Human Colony Stimulating Factor 2 (granulocyte-macrophage)

Cat. No. CSF2-470H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CSF2 was expressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer. MW: 14.6 kDa.
Species	Human
Source	E.coli
Description	Human CSF2 is a 14.6 kDa globular protein consisting of 128 amino acid containing two disulfide bonds. CSF2 is a hematopoietic growth factor that stimulates the development of neutrophils and macrophages and promotes the proliferation and development of early erythroid megakaryocytic and eosinophilic progenitor cells.
Form	Liquid in phosphate-buffered saline (pH 7.4).
Bio-activity	The ED50 for this effect is < 0.18 ng/ml, measured in a cell proliferation assay using tf1 human erythroleukemic cells.
Molecular Mass	14.6 kDa (128 aa), confirmed by MALDI-TOF.
AA Sequence	MAPARSPSPS TQPWEHVNAI QEARRLLNLS RDTAAEMNET VEVIEMFDL QEPTCLQTRL ELYKQGLRGS LTKLKGPLTM MASHYKQHCP PTPETSCATQ IITFESFKEN LKDFLLVIPF DCWEPVQE

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Endotoxin	< 1.0 eu per 1 ug of protein (determined by lal)
Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

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

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Chromosome Location	5q23-q31
Pathway	Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; 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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