

Active Recombinant Colony Stimulating Factor 2 (Granulocyte-Macrophage)

Cat. No. CSF2-648C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMCSF Canine Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 128 amino acids and having a molecular mass of 14.2 kDa. GM-CSF is purified by proprietary chromatographic techniques.
Species	Human
Source	Canine
Description	GMCSF 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. GM-CSF stimulates the growth and differentiation of hematopoietic precursor cells from various lineages, including granulocytes, macrophages, eosinophils and erythrocytes.
Form	GMCSF was lyophilized after extensive dialysis against 1x PBS pH= 7.4 μ0.1.
Purity	Greater than 96.0% as determined by 1. Analysis by RP-HPLC. 2. Analysis by SDS-PAGE.
Bio-activity	The ED50 as calculated by the dose-dependant stimulation of the proliferation of human TF1 erythroleukemic cells is typically 1-4 ng/ml.

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Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized GMCSF in sterile deionized water not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Amino acid sequence	APTRSPTLVT RPSQHVDIAIQ EALSLLNNSN DVTAVMNKAV KVVSEVFDPE GPTCLETRLQ LYKEGLQGS L TSLKNPLTMM ANHYKQHCPP TPESPCATQN INFKSFKENL KDFLFNIPFD CWKPVKK.
Storage	It is recommended to reconstitute the lyophilized GMCSF in sterile 18Mμ-cm H2O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	CSF2 colony stimulating factor 2 (granulocyte-macrophage) [<i>Canis lupus familiaris</i>]
Official Symbol	CSF2
Synonyms	CSF2; GM-CS; granulocyte-macrophage colony-stimulating factor; CSF; colony-stimulating factor
Gene ID	403923
mRNA Refseq	NM_001003245
Protein Refseq	NP_001003245
UniProt ID	P48749
Pathway	Amoebiasis; Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; HTLV-I infection; Hematopoietic cell lineage; Jak-STAT signaling pathway; Natural

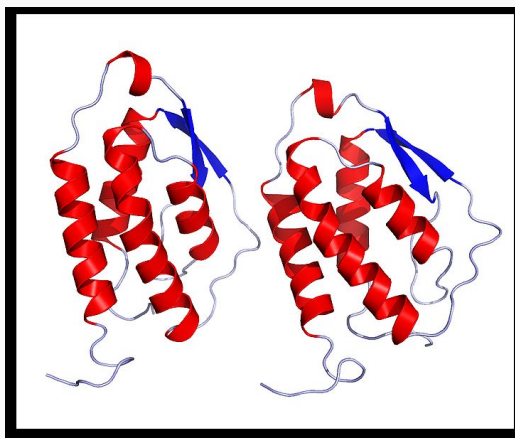
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killer cell mediated cytotoxicity; Rheumatoid arthritis; T cell receptor signaling pathway

PDBrendering based
on 2gmf



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