

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 LYKEGLQGSL TSLKNPLTMM ANHYKQHCPP TPESPCATQN INFKSFKENL KDFLFNIPFD CWKPVKK.
Storage	It is recommended to reconstitute the lyophilized GMCSF in sterile 18M μ -cm H ₂ O 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

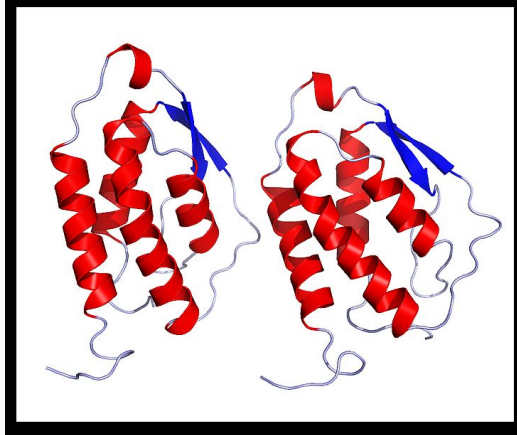
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killer cell mediated cytotoxicity; Rheumatoid arthritis; T cell receptor signaling pathway

PDBrendering based
on 2gmf



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