



Mouse CSF2 peptide (DAG340)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	GM-CSF stimulates stem cells to produce granulocytes (neutrophils, eosinophils, and basophils) and monocytes. Monocytes exit the circulation and migrate into tissue, whereupon they mature into macrophages and dendritic cells. Thus, it is part of the immune/inflammatory cascade, by which activation of a small number of macrophages can rapidly lead to an increase in their numbers, a process crucial for fighting infection. The active form of the protein is found extracellularly as a homodimer.
Species	Mouse
Conjugate	Unconjugated
Applications	The ED ₅₀ as determined by the dose-dependent stimulation of the proliferation of mouse FDC-P1 cell line is 0.2 ng/ml, corresponding to a specific activity of 5 x 10 ⁶ IU/mg. Each laboratory should determine an optimum working titer for use in its particular application.
Format	Purified, Lyophilized Reconstitute using sterile deionized water to a concentration 100 µg/ml. Further dilutions can be made in other aqueous buffers.
Concentration	1 mg/ml (OD _{280nm} , E _{0.1%} = 0.765) (prior to lyophilization)
Buffer	Lyophilized from 2mM Sodium phosphate buffer, pH 7.4 + 0.1
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	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
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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.

Keywords

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

GENE INFORMATION

Entrez Gene ID

[1437](#)

UniProt ID

[P04141](#)
