

## GM CSF K9

**Description:** GMCSF k9 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.

**Catalog #:** CYP5-731

For research use only.

**Synonyms:** CSF-2, MGI-1GM, GM-CSF, Pluripoietin-alpha, Molgramostin, Sargramostim, MGC131935, MGC138897.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** APTRSPTLVT RPSQHVDAIQ EALSLLNNSN DVTAVMNKAV  
KVVSEVFDPEGPTCLETRLQ LYKEGLQGSL TSLKNPLTMM ANHYKQHCPP  
TPESPCATQINFKSFKENL KDFLFNIPFD CWKPVKK.

**Purity:** Greater than 96.0% as determined by 1. Analysis by RP-HPLC. 2. Analysis by SDS-PAGE.

### Formulation:

GMCSF was lyophilized after extensive dialysis against 1xPBS pH 7.4.

### Stability:

Lyophilized GMCSF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GMCSF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Solubility:

It is recommended to reconstitute the lyophilized GMCSF in sterile 18M-cm H<sub>2</sub>O not less than 100

### Introduction:

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.

### Biological Activity:

The ED<sub>50</sub> as calculated by the dose-dependent stimulation of the proliferation of human TF1 erythroleukemic cells is typically 1-4 ng/ml.

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