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# GM CSF K9

*Granulocyte Macrophage-Colony Stimulating Factor Canine Recombinant*
*GRF0140*

## Product Overview

| | |
|---|---|
| Name | GM CSF K9 |

**Description**

Granulocyte Macrophage-Colony Stimulating Factor Canine Recombinant

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|---|---|
| Accession (Primary) | P48749 |

**Synonyms**

CSF-2, MGI-1GM, GM-CSF, Pluripoietin-alpha, MGC131935, MGC138897.

**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.

**Source**

Escherichia Coli.

**Physical Appearance**

Sterile Filtered White lyophilized (freeze-dried) powder.

**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.

**Purity**

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

**Amino acid sequence**

APTRSPTLVT RPSQHVDAIQ EALSLLNNSN DVTAVMNKAV KVVSEVFDPE GPTCLETRLQ LYKEGLQGSL TSLKNPLTMM ANHYKQHCPP TPESPCATQN INFKSFKENL KDFLFNIPFD CWKPVKK.

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**Biological Activity**

The ED50 as calculated by the dose-dependent stimulation of the proliferation of human TF1 erythroleukemic cells is typically 1-4 ng/ml.

**Solubility**

It is recommended to reconstitute the lyophilized GMCSF in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Precautions**

GM CSF K9 is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P48749 )