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GM CSF Rat

Granulocyte Macrophage-Colony Stimulating Factor Rat Recombinant
GRF0143

Product Overview

Name	GM CSF Rat

Description

Granulocyte Macrophage-Colony Stimulating Factor Rat Recombinant

Accession (Primary)	P48750

Synonyms

CSF-2, MGI-1GM, GM-CSF, Pluripoietin-alpha, Molgramostin, Sargramostim.

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

GM-CSF Rat was lyophilized with no additives.

Stability

Lyophilized Granulocyte Macrophage Colony Stimulating Factor 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: (a)Analysis by RP-HPLC. (b)Analysis by SDS-PAGE.

Amino acid sequence

MAPTRSPNPV TRPWKHVDAI KEALSLLNDM RALENEKNED VDIISNEFSI QRPTCVQTRL KLYKQGLRGN

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LTKLNGALTM IASHYQTNCP PTPETDCEIE VTTFEDFIKN LKGFLFDIPF DCWKPVQK.

Biological Activity

The ED 50 as calculated by the dose-dependent stimulation of the proliferation of murine FDC-P1 cells is less than 0.01ng/ml, corresponding to a specific activity of > 1×10 8 units/mg.

Solubility

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

Precautions

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

Target Information: (P48750)