

# GM CSF Human

*Granulocyte Macrophage-Colony Stimulating Factor Human Recombinant*  
GRF0136

## Product Overview

Name GM CSF Human

### Description

Granulocyte Macrophage-Colony Stimulating Factor Human Recombinant

Accession (Primary) [P04141](#)

### Synonyms

CSF-2, MGI-1GM, GM-CSF, Pluripoietin-alpha, Molgramostin, Sargramostim, 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. Granulocyte Macrophage Colony Stimulating Factor is a potent species-specific growth factor produced by a variety of cell types including T cells, B cells, macrophages, mast cells and endothelial cells. GM-CSF is produced in response to cytokine or immune stimulation and has been shown to stimulate the proliferation, maturation and function of hematopoietic cells.

### Source

Escherichia Coli.

### Physical Appearance

Sterile Filtered clear solution.

### Formulation

Granulocyte Macrophage Colony Stimulating Factor-His is supplied in 20mM Tris HCl (pH 8) and 50% glycerol.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

### Purity

Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

### Precautions

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

**Target Information: ( [P04141](#) )**

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