

Recombinant Human Granulocyte Macrophage-Colony Stimulating Factor, His (GMCSF Human)

Source: E.Coli

Catalog No.: CYT-477

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.

Description:

GMCSF Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 127 amino acids fragment (18-144) and having a molecular mass of 14477 Dalton with an amino-terminal hexahistidine tag.

GM-CSF Human Recombinant His is purified by proprietary chromatographic techniques.

Synonyms:

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

Physical Appearance:

Sterile Filtered clear solution.

Formulation:

Granulocyte Macrophage Colony Stimulating Factor-His is supplied in 1x PBS 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

Usage:

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

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