



Product Datasheet

Product Name	Granulocyte Macrophage-Colony Stimulating Factor Human Recombinant, His Tag
Cata No	CB500379
Source	<i>Escherichia Coli.</i>
Synonyms	CSF-2, MGI-1GM, GM-CSF, Pluripoietin-alpha, Molgramostin, Sargramostim, MGC131935, MGC138897

Description

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.

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.

Physical Appearance

Sterile Filtered clear solution

Purity

Greater than 95.0% as determined by:

1. Analysis by RP-HPLC.
2. Analysis by SDS-PAGE

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.

*** For Non-Clinical Research Use Only ***