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Product Datasheet

Product Name Granulocyte Macrophage-Colony Stimulating Factor Rat

Cata No CB500297

Source Escherichia Coli.

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

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 Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 128 amino acids and having a molecular mass of 14590.65 Dalton. GM-CSF Rat Recombinant is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

The ED50 range = 0.001-0.01 ng/ml, determined by the dose dependent proliferation of murine MC/9 cells.

Purity

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

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.

Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ala-Pro-Thr-Arg.