
Product Data Sheet

Product Name: GM CSF K9
 Cat. No.: GP20361
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	CSF-2; MGI-1GM; GM-CSF; Pluripoietin-alpha; MGC131935; MGC138897.		
Amino Acid Sequence	APTRSPTLVT RPSQHVDAIQ EALSLLNNSN DVTAVMNKAV KVVSEVFDPEGPTCLETRLQ LYKEGLQGSL TSLKNPLTMM ANHYKQHCPP TPESPCATQNINFKSFKENL KDFLFNIPFD CWKPVKK.		
Solubility	It is recommended to reconstitute the lyophilized GMCSF in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	GMCSF was lyophilized after extensive dialysis against 1xPBS pH 7.4.		

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.

Biological Activity

The ED₅₀ as calculated by the dose-dependent stimulation of the proliferation of human TF1 erythroleukemic cells is typically 1-4 ng/ml.

Stability

Lyophilized GMCSF although stable at room temperature for 3 weeks, should be stored

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

GMCSF k9 Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 128 amino acids and having a molecular mass of 14.2 kDa. GM-CSF is purified by proprietary chromatographic techniques.

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