
Product Data Sheet

Product Name: GMCSF Porcine
 Cat. No.: GP20362
 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; Molgramostin; Sargramostim.		
Amino Acid Sequence	MAPTRPPSPV TRPWQHVD AI KEALSLNNS NDTAAVMNET VDVVCEMFDP QEPTCVQTRL NLYKQGLRGS LTRLKSPLTL LAKHYEQHCP LTEETSCETQ SITFKSFKDS LNKFLFTIPF DCWGPVKK.		
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	The protein was lyophilized from a sterile (0.2μm) filtered solution containing 10mM sodium phosphate, pH 7.5.		

Introduction

GMCSF is a cytokine that controls the production, differentiation, and function of granulocytes and macrophages. The active form of GMCSF is found extracellularly as a homodimer. GMCSF 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 determined by TF-1 cell proliferation is <10ng/ml corresponding to a specific activity which is $\geq 1.0 \times 10^5$ units/mg.

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

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Stability

Lyophilized GMCSF 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 . Please prevent freeze-thaw cycles.

Background

Granulocyte Macrophage-Colony Stimulating Factor Porcine Recombinant produced in *E. coli* is a non-glycosylated monomer chain containing 128 amino acids and having a molecular mass of 14.5kDa. GMCSF is purified by proprietary chromatographic techniques.

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