9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

GM CSF Monkey

Granulocyte Macrophage-Colony Stimulating Factor Rhesus Macaque Recombinant GRF0141

Product Overview

Name	GM CSF Monkey
Description	
Granulocyte Macrophage-Colony Stimulating Factor Rhesus Macaque Recombinant	
Accession (Primary)	Q0MUT8
Synonyms	
CSF-2, MGI-1GM, GM-CSF, Pluripoietin-alpha, MGC131935, MGC138897.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
GM-CSF was lyophilized from a concentrated (1mg/ml) solution containing 1x PBS pH 7.4.	
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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 98.0% as determined by SDS-PAGE and RP-HPLC.	
Amino acid sequence	
APARSPSPGT QPWEHVNAIQ EARRLLNLSR DTAAEMNKTV EVVSEMFDLQ EPSCLQTRLE LYKQGLQGSL TKLKGPLTMM ASHYKQHCPP TPETSCATQI ITFQSFKENL KDFLLVIPFD CWEPVQE.	

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Biological Activity

The ED50 as determined by a cell proliferation assay using human TF-1 cells is less than 0.1ng/ml, corresponding to a specific activity of > 10,000,000 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized GMCSF in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

GM CSF Monkey is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q0MUT8)