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

GMCSF Porcine

Granulocyte Macrophage-Colony Stimulating Factor Porcine Recombinant
GRF0144

Product Overview

Name	GMCSF Porcine
Description	
Granulocyte Macrophage-Colony Stimulating Factor Porcine Recombinant	
Accession (Primary)	P48750
Synonyms	
CSF-2, MGI-1GM, GM-CSF, Pluripoietin-alpha, Molgramostin, Sargramostim.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a sterile (0.2 µm) filtered solution containing 10mM sodium phosphate, pH 7.5.	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MAPTRPPSPV TRPWQHVDAI KEALSLLNNS NDTAAVMNET VDVVCEMFDP QEPTCVQTRL NLYKQGLRGS LTRLKSPLTL LAKHYEQHCP LTEETSCETQ SITFKSFKDS LNKFLFTIPF DCWGPVKK.	

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Biological Activity

The ED 50 , as determined by TF-1 cell proliferation is 4.52ng/ml corresponding to a specific activity which is 2.2 x 10^5 units/mg.

Solubility

It is recommended to reconstitute the lyophilized GMCSF in sterile 18MΩ-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

GMCSF Porcine is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P48750)