9051 Mira Mesa Blvd, #910094
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Tel: 760-390-3989

GCSF Rat

Granulocyte-Colony Stimulating Factor Rat Recombinant
GRF0115

Product Overview

Name	GCSF Rat
Description	
Granulocyte-Colony Stimulating Factor Rat Recombinant	
Accession (Primary)	P97712
Synonyms	
Granulocyte colony stimulating factor, Protein Csf3, Csf3.	
Introduction	
GCSF is a cytokine that controls the production, differentiation, and function of granulocytes. The active protein is found extracellularly. Three transcript variants encoding three different isoforms have been found for the GCSF gene. Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. This csf induces granulocytes.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 µm filtered solution in 5mM Sodium Citrate, pH 4.0.	
Stability	
Lyophilized G-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GCSF 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 97.0% as determined by: (a)Analysis by RP-HPLC. (b)Analysis by SDS-PAGE.	
Amino acid sequence	
KKIPLLTVSS LPPSLPLPRS FLLKSLEQVR KIQARNTELL EQLCATYKLC HPEELVLFGH SLGIPKASLS SCSSQALQQT KCLSQLHSGL FLYQGLLQAL AGISSELAPT LDMLHLDVDN FATTIWQQME SLGVAPTVQP TQSTMPIFTS AFQRRAGGVL VTSYLQSFLE TAHHALHHLP RPAQKHFPES LFISI.	

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Biological Activity

The ED 50 determined by a cell proliferation assay using murine NFS-60 cells is less than 0.05ng/ml, corresponding to a specific activity of > 2.0× 10 7 IU/mg.

Solubility

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

Precautions

GCSF Rat is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P97712)