
Product Data Sheet

Product Name: GCSF Rat
 Cat. No.: GP20324
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Granulocyte colony stimulating factor; Protein Csf3; Csf3.		
Amino Acid Sequence	KKIPLLVSS LPPSLPLPRS FLLKSLEQVR KIQARNTLL EQLCATYKLC HPEELVLFHG SLGIPKASLS SCSSQALQQT KCLSQLHSGL FLYQGILLQAL AGISSELAPT LDMLHLDVDN FATTIWQQME SLGVAPTQVP TQSTMPIFTS AFQRRAGGVL VTSYLQSFLE TAHHALHHLP RPAQKHPES LFISI.		
Solubility	It is recommended to reconstitute the lyophilized GCSF in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered solution in 5mM Sodium Citrate, pH 4.0.		

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.

Biological Activity

The ED₅₀ determined by a cell proliferation assay using murine NFS-60 cells is less than 0.05ng/ml, corresponding to a specific activity of > 2.06⁻¹ 10⁷ IU/mg.

Stability

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

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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.

Background

GCSF Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 195 amino acids and having a molecular mass of 21.5kDa. The G-CSF is purified by proprietary chromatographic techniques.

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