
Product Data Sheet

Product Name: G CSF Human
 Cat. No.: GP20318
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	CSF-3; MGI-1G; GM-CSF beta; Pluripoietin; Filgrastim; Lenograstim; G-CSF; MGC45931; GCSF.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids of GCSF was determined and was found to be Met-Thr-Pro-Leu-Gly.		
Solubility	It is recommended to reconstitute the lyophilized GCSF in sterile 20mM AcOH not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	GCSF was lyophilized after extensive dialysis against 10mM sodium acetate buffer pH= 4.		

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, calculated by the dose-dependant proliferation of murine NFS-60 indicator cells (measured by 3H-thymidine uptake) is < 0.1 ng/ml, corresponding to a Specific Activity of 100,000,000 IU/mg.

Stability

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

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Lyophilized GCSF 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

Granulocyte Colony Stimulating Factor Human Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain containing 175 amino acids and having a molecular mass of 18.8 KD. GCSF is purified by proprietary chromatographic techniques.

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