
Product Data Sheet

Product Name: G CSF Human, PEG
Cat. No.: GP20321
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CSF-3; MGI-1G; GM-CSF beta; Pluripoietin; Filgrastim; Lenograstim; G-CSF; MGC45931; GCSF.		
Formulation	G-CSF is supplied in solution (0.69mg/ml) containing 10mM Acetate Buffer (pH 4.0), and 0.004% Polysorbate 80.		

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 this 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-dependent proliferation of murine NFS-60 indicator cells is less than 0.1 ng/ml, corresponding to a Specific Activity of 10,000,000IU/mg.

Stability

G-CSF PEG should be stored refrigerated at 26y to 8°C . Vials should be kept in theirpackaging to protect from light until the time of use. Shaking and freezing should be avoided.

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

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

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molecular mass of 18.8kDa. The PegylatedG-CSF is produced by attaching a 20kDa methoxypolyethylene glycol propionaldehyde (mPEG-ALD) to the N-terminal amino acid of G-CSF giving a total molecular mass of 38.8kDa. G-CSF is purified by proprietary chromatographic techniques.

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