
Product Data Sheet

Product Name: G CSF Human, CHO

Cat. No.: GP20320

Batch No.: 1

Product Data

Purity	>98%	Source	Chinese Hamster Ovary Cells (CHO).
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	TPLGPASSLP QSFLKCLEQ VRKIQGDGAA LQEKLCATYK LCHPEELVLL GHSLGIPWAP LSSCPSQALQ LAGCLSQLHS GLFLYQGLLQ ALEGISPELG PTLDTLQLDV ADFATTIWQQ MEELGMAPAL QPTQGAMPAF ASAFQRRAGG VLVASHLQSF LEVSYRVLRH LAQP.		
Solubility	It is recommended to reconstitute the lyophilized Granulocyte Colony Stimulating Factor in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	G-CSF was lyophilized from a concentrated (1mg/ml) solution containing 10mM Hydrochloric Acid pH=6.5, 0.4mg tween 20, 100mg mannitol, 160mg L-arginine, 40mg phenylalanine and 4mg methionine.		

Introduction

Granulocyte Colony Stimulating Factor is a growth factor and/or cytokine produced by the endothelium, macrophages and a number of other immune cells. GCSF stimulates the bone marrow to produce granulocytes and also to stimulate the survival, proliferation, differentiation and function of neutrophil granulocyte progenitor cells and mature neutrophils.

Biological Activity

The ED₅₀, calculated by the dose-dependant proliferation of murine NFS-60 indicator cells (measured by ³H-thymidine uptake) is < 0.07 ng/ml, corresponding to a Specific Activity of 1.27 x 10⁸ IU/mg.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Stability

Lyophilized Granulocyte Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution G-CSF 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 CHO cells is a single, glycosylated, polypeptide chain containing 174 amino acids and having a molecular mass of approximately 18 kDa. G-CSF is purified by proprietary chromatographic techniques.

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