9051 Mira Mesa Blvd, #910094
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G CSF Human, CHO

Granulocyte-Colony Stimulating Factor Human Recombinant, CHO
GRF0109

Product Overview

Name	G CSF Human, CHO
Description	
Granulocyte-Colony Stimulating Factor Human Recombinant, CHO	
Accession (Primary)	P09919
Synonyms	
CSF-3, MGI-1G, GM-CSF beta, Pluripoietin, Filgrastim, Lenograstim, G-CSF, MGC45931, GCSF.	
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 progenator cells and mature neutrophils.	
Source	
Chinese Hamster Ovary Cells (CHO).	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
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.	
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.	
Purity	
Greater than 97.0% as determined by SDS-PAGE.	
Amino acid sequence	
TPLGPASSLP QSFLLKCLEQ VRKIQGDGAA LQEKLCATYK LCHPEELVLL GHSLGIPWAP LSSCPSQALQ LAGCLSQLHS GLFLYQGLLQ ALEGISPELG PTLDTLQLDV ADFATTIWQQ MEELGMAPAL QPTQGAMPAF ASAFQRRAGG VLVASHLQSF LEVSYRVLRH LAQP.	

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Biological Activity

The ED 50 , calculated by the dose-dependant proliferation of murine NFS-60 indicator cells (measured by 3 H-thymidine uptake) is < 0.07 ng/ml, corresponding to a Specific Activity of 1.27 x 10 8 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized Granulocyte Colony Stimulating Factor in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

G CSF Human, CHO is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P09919)