Recombinant Human G-CSF

Product Description

Catalog #: CJO682, 2µg  
CJO683, 10µg  
CJO680, 100µg  
CJO681, 1mg

Name: Recombinant Human G-CSF  
Granulocyte Colony Stimulating Factor  
CSF-3, MGI-1G, GM-CSFβ, pluripoietin

Source: E. coli

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder

Formulation and Stability: Recombinant human G-CSF is lyophilized from 10 mM sodium citrate, pH 3.0. Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage. MW: 18.8 kDa

Storage: -20°C

For Research Use Only

Introduction

Granulocyte-Colony Stimulating Factor (G-CSF) is a growth factor that is considered the most potent inducer of terminal differentiation to granulocytes and macrophages of leukemic myeloid cell lines. The synthesis of G-CSF can be induced by bacterial endotoxins, TNF, IL-1 and GM-CSF. Prostaglandin E2 inhibits the synthesis of G-CSF, while in epithelial, endothelial, and fibroblastic cells, secretion of G-CSF is induced by IL-17. Human and mouse G-CSF are cross-reactive. Recombinant human G-CSF is a non-glycosylated protein, containing 175 amino acids, with a molecular weight of 18.8 kDa.

Technical and Scientific Information

Reconstitution

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
FT-CJO680

**Protein Content and Purity (typically ≥95%) determined by:**
Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**
Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

**Biological Activity:**
The activity is determined by the dose-dependent proliferation of mouse NFS-60 and is typically 10-60 pg/mL.

**AA Sequence:**
TPLGPASSLQ QSFLKCLEQ VRKIQGDGAA LQEKL CATYK LCHPEELVLL GHSLGIPWAP LSSCPSQALQ LAGCLSQLHS GLFLYOGLLQ ALEGISPELG PTLDTLQLDV ADFATTIWQQ MEELGMAPAL QPTQGAMPAPF ASAFQRRAGG VLVASHLQSFL ELEVYRLH LAQP

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**Ordering information**

Catalog size quantities and prices may be found at [http://www.interchim.com](http://www.interchim.com).
Please inquire for higher quantities (availability, shipment conditions).

Please contact InterBioTech – Interchim for any other information
Hotline : +33(0)4 70 03 73 06 – Interbiotech@interchim.com

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