

TECHNICAL DATA SHEET

Human G-CSF (CHO)

Human Granulocyte Colony Stimulating Factor, recombinant (CHO)

Synonyms: CSF-3, MGI-1G, GM-CSF beta, Pluripoietin, Filgrastim, Lenograstim, G-CSF, MGC45931, GCSF

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date*
10 µg	W 1430954010	3811229000	February 2013

Description

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 18 kDa. G-CSF is purified by proprietary chromatographic techniques. 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** $\geq 1.27 \times 10^8$ units/mg
- **Source** *Chinese Hamster Ovary Cells (CHO)*
- **Purity** $\geq 97\%$ (SDS-PAGE, RP-HPLC)
- **Stabilizer** None
- **Buffer** Phosphate-Buffered Saline, pH 7.4
- **Physical state** Sterile filtered, lyophilized

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 $\geq 1.27 \times 10^8$ IU/mg.

Reconstitution

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

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.**

Protein content

GCSF quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm using the absorbency value of 0.815 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC using a calibrated solution of Granulocyte Colony Stimulating Factor as a Reference Standard.

Usage

FOR RESEARCH USE ONLY! NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

*For lyophilized product if stored as indicated. Please contact our technical support if the product has expired.

Biochrom AG, Leonorenstr. 2-6, 12247 Berlin
Phone: +49 30 77 99 06-92
Fax: +49 30 771 00 12
Email: info@biochrom.de
<http://www.biochrom.de>