

Human G-CSF

Human Granulocyte Colony-Stimulating Factor, recombinant

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
10 µg	1430.954.010	3831001000	May 2012

Description

Recombinant human G-CSF is a single, glycosylated, polypeptide chain of 18 kDa containing 174 amino acid residues. G-CSF is a growth factor and/or cytokine produced by the endothelium, macrophages and a number of other immune cells. G-CSF 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** > 1 x 10⁸ IU/mg
- **Source** CHO cells
- **Purity** ≥ 97 % (SDS-PAGE, RP-HPLC)
- **Endotoxin level** ≤ 0.1ng per µg (≤ 1EU/µg)
- **Stabilizer** None
- **Buffer** Phosphate-Buffered saline (pH 7.4).*
- **Physical state** Sterile filtered, lyophilized

Biological activity

The ED₅₀ of ≤ 0.07ng/ml was determined by the dose-dependent proliferation of murine NFS-60 indicator cells (measured by ³H-thymidine uptake). It corresponds to a specific activity of > 1 x 10⁸ IU/mg.

Reconstitution

We recommend a quick spin followed by reconstitution in water to a concentration not less than 100µg/ml. This solution can then be diluted into other aqueous solutions.

Stability

The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted 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 avoid repeated freeze/thaw cycles.**

Usage

FOR RESEARCH USE ONLY

NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

* The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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>