

Product information

G-CSF, 31-204 aa

Human, Recombinant, *E.coli*

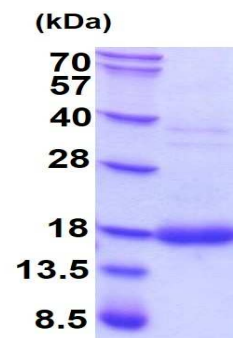
Cat. No. IBCSF4001

Full name: Granulocyte-colony stimulating factor

NCBI Accession No.: NP_757373

Synonyms: Pluripoietin, CSF3

Description: Human granulocyte colony-stimulating factor(hG-CSF) is one of the hematopoietic growth factors which plays an important role in stimulating proliferation, differentiation, and functional activation of blood cells. In addition to its effect on hematopoiesis, G-CSF also enhances neutrophil functions against bacteria, fungi, and tumor cells mediated by antibody-dependent cell-mediated cytotoxicity. Recombinant hG-CSF was expressed in *E.coli* and purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

<p>Form: Liquid. In Phosphate-buffered Saline(PBS), pH7.4, 10% glycerol</p> <p>Molecular Weight: 18.8kDa (175aa), confirmed by MALDI-TOF</p> <p>Purity: > 95% by SDS - PAGE</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p> <p>Endotoxin Level: < 1.0 EU per 1 µg of protein (determined by LAL method)</p> <p>Biological activity: Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is ≤ 0.3 ng/ml.</p>	 <p>(kDa)</p> <p>70 57 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3µg)</p>
<p>Sequences of amino acids: MTPLGPASSL PQSFLLKCLE QVRKIQQDGA ALQEKLCATY KLCHPEELVL LGHSLGIPWA PLSSCPSQAL QLAGLSQLH SGLFLYQGLL QALEGISPEL GPTLDTLQLD VADFATTIWQ QMEELGMAPA LQPTQGAMPA FASAFQRRAG GVLVASHLQS FLEVSRYRVLRL HLAQP</p>	

General references:

Nomura H, *et al.*(1986) *EMBO J*, **5**(5): 871-6
 Nagata, S., *et al.*(1986) *Nature*, **319** : 415-418
 Demetri, G. D., *et al.*(1991) *Blood*, **78**: 2791-2808
 Hill, C. P., *et al* (1993) *Proc. Natl. Acad. Sci. USA*, **90**:5167-5171

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.