PRODUCT DATA SHEET



Bioworld Technology,Inc.

Recombinant G-CSF, Human

Catalog Number: BK0061-10µg Source: Escherichia coli. Quantity: 10µg

Description:

Granulocyte Colony-Stimulating Factor (G-CSF) contains internal disulfide bonds. Among the family of colony-stimulating factors, Granulocyte Colony Stimulating Factor (G-CSF) is the most potent inducer of terminal differentiation to granulocytes and macrophages of leukemic myeloid cell lines. The synthesis of Granulocyte Colony Stimulating Factor (G-CSF) can be induced by bacterial endotoxins, TNF, Interleukin-1 and GM-CSF. Prostaglandin E2 inhibits the synthesis of Granulocyte Colony Stimulating Factor (G-CSF). In epithelial, endothelial, and fibroblastic cells secretion of Granulocyte Colony Stimulating Factor (G-CSF) is induced by Interleukin-17.Recombinant human Granulocyte Colony-Stimulating Factor (rhG-CSF) produced in E. coliis a single non-glycosylated polypeptide chain containing 175amino acids. A fully biologically active molecule, rhG-CSF is obtained by proprietary chromatographic techniques at GenScript, with an apparent molecular mass of 18.8kDa analyzed by reducing SDS-PAGE.

Molecular Weight:

18.8kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE and HPLC analyses.

Biological Activity:

ED50 <0.1ng/ml, measured by a cell proliferation assay of M-NFS-60 cells, corresponding to a specific activity of $>1.0\times10^7$ IU/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

Formulation:

Lyophilized after extensive dialysis against 25mM Tris, pH8.0.

AA Sequence:

MTPLGPASSLPQSFLLKCLEQVRKIQGDGAALQE KLCATYKLCHPEELVLLGHSLGIPWAPLSSCP-SQALQLAGCLSQLHSGLFLYQGLLQALEGIS-PELGPTLDTLQLDVADFATTI-WQQMEELGMAPALQPTQGAMPAFASA-FQRRAGGVLVASHLQSFLEVSYRVLRHLAQP

Endotoxin:

<0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O at 100 µg/ml.

Storage:

Lyophilized recombinant human Granulocyte Colony-Stimulating Factor (rhG-CSF) remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, rhG-CSF should be stable up to 2 weeks at 4 $^{\circ}$ C or up to 3 months at -20 $^{\circ}$ C.

Usage:

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