DATASHEET
Version 20181206

G-CSF, Human(CHO-expressed)

Cat. No.: Z02980-10

Size: 10.0 ug

Synonyms: Granulocyte Colony-Stimulating Factor, CSF-3, MGI-1G, GM-CSF beta, pluripoietin.

Description:

Human 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, the secretion of Granulocyte Colony Stimulating Factor (G-CSF) is induced by Interleukin-17.

Amino Acid Sequence:

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00001 TPLGPASSLP QSFLLKCLEQ VRKIQGDGAA LQEKLCATYK
00041 LCHPEELVLL GHSLGIPWAP LSSCPSQALQ LAGCLSQLHS
00081 GLFLYQGLLQ ALEGISPELG PTLDTLQLDV ADFATTIWQQ
00121 MEELGMAPAL QPTQGAMPAF ASAFQRRAGG VLVASHLQSF
00161 LEVSYRVLRH LAQP
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Source: *CHO*

Species: Human

Biological Activity: ED_{50}< 0.1 ng/ml, determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells, corresponding to a specific activity of >1 x 10^7 units/mg.

Molecular Weight: 18.7kDa, observed by non-reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH2O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE and HPLC.

Endotoxin Level: <0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant human Granulocyte Colony Stimulating Factor (G-CSF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhG-CSF should be stable up to 1 week at 4°C or up to 2 months at -20°C.

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