

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant G-CSF, Human(CHO-expressed)

Catalog Number: BK0206-1mg

Source: CHO

Quantity: 1mg

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.

Molecular Weight:

18.7kDa, observed by non-reducing SDS-PAGE.

Purity:

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

Biological Activity:

ED50 < 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 10⁷ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

TPLGPASSLPQSFLKCLEQVRKIQQDGAALQEK
LCATYKLCCHPEELVLLGHSGLGIPWAPLSSCP-
SQALQLAGCLSQLHSGLFLYQGLLQALEGIS-
PELGPTLDTLQLDVADFATTI-
WQQMEELGMAPALQPTQGAMPAFASA-
FQRRAGGVLVASHLQSFLEVSYRVLRLHQAQP

Endotoxin:

<0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 μg/ml.

Storage:

Lyophilized recombinant human Granulocyte Colony Stimulating Factor (G-CSF) remains stable up to 6 months at -80 °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.

Usage:

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