

G-CSF Protein, Human, Recombinant (CHO)

General Information

Synonyms:	CSF3OS;CSF-3;CSF3;colony stimulating factor 3;Granulocyte Colony-Stimulating Factor;GCSF;C17orf33
Protein Construction:	Thr27-Pro200
Species:	Human
Expression Host:	CHO Cells
Accession:	Q8N4W3
Molecular Weight:	~18.7 kDa (Non-reducing conditions)

QC Testing

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 > 1.0 × 10 ⁷ units/mg.
Purity:	> 95% as determined by SDS-PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.2 EU/μg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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