

Rev04
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DATASHEET

G-CSF, Human(CHO-expressed)

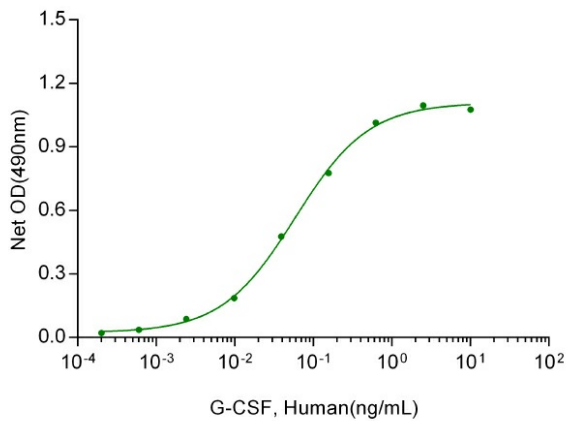
Cat. No.: Z02980

Product Introduction

Species	Human
Protein Construction	G-CSF (Thr27-Pro200) Accession # Q8N4W3
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
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.
Expression System	CHO
Apparent Molecular Weight	~18.7 kDa, on SDS-PAGE under non-reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	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.

Examples

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.



Background

Target 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.

Synonyms : CSF3; C17orf33; CSF3OS; GCSF; colony stimulating factor 3; CSF-3; Granulocyte Colony-Stimulating Factor

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.