

Active Recombinant Human CSF3 Protein (Thr31-Pro204), N-His tagged, Animal-free, Carrier-free

Cat. No. CSF3-30H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CSF3 Protein (Thr31-Pro204) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Thr31-Pro204
Description	Granulocyte colony-stimulating factor (G-CSF) is a member of the CSF family of glycoproteins and makes the bone marrow produce more white blood cells so it can reduce the risk of infection after some types of cancer treatment also is an established useful clinical agent for increasing neutrophilic granulocytes levels. G-CSF is a 18.67 kDa protein having 207 amino acid which secreted by monocytes, macrophages, fibroblasts, and endothelial cells, regulates cell growth, maturation, development of myeloid cells.
Form	Lyophilized
Bio-activity	Measure by its ability to induce proliferation in NFS-60 cells. The ED50 for this effect is < 50 pg/mL. The specific activity of recombinant human G-CSF is > 2 × 10 ⁷ IU/mg.
Molecular Mass	The protein has a calculated MW of 19.48 kDa. The protein migrates as 21kDa under reducing condition (SDS-PAGE analysis).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	CSF3 colony stimulating factor 3 [Homo sapiens (human)]
Official Symbol	CSF3
Synonyms	CSF3; colony stimulating factor 3; GCSF; CSF3OS; C17orf33;
Gene ID	www.ncbi.nlm.nih.gov/gene/1440
mRNA Refseq	NM_172219
Protein Refseq	NP_757373

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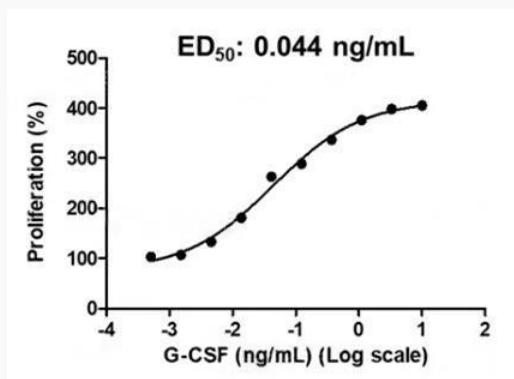
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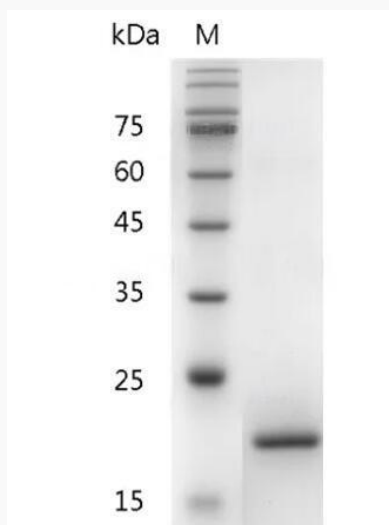
UniProt ID Q6FH65

Activity



Human G-CSF, His Tag, E. coli (LDG170PHE) induced NFS-60 cell proliferation, with the ED₅₀ at 44 pg/mL.

SDS-PAGE analysis of recombinant human G-CSF.



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