

Active Recombinant Human CSF3 (27 - 200aa), Met tagged

Cat. No. CSF3-024E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CSF3 (Thr27 Pro200, with an Nterminal Met) was expressed in E. coli and produced using nonanimal reagent in an animalfree laboratory.
Species	Human
Source	E.coli
Description	GCSF is a pleiotropic cytokine best known for its specific effects on the proliferation, differentiation, and activation of hematopoietic cells of the neutrophilic granulocyte lineage. It is produced mainly by monocytes and macrophages upon activation by endotoxin, TNF μ and IFN μ . In vitro, GCSF stimulates growth, differentiation and functions of cells from the neutrophil lineage. It also has blast cell growth factor activity and can synergize with IL3 to shorten the Go period of early hematopoietic progenitors. Consistent with its in vitro functions, GCSF has been found to play important roles in defense against infection, in inflammation and repair, and in the maintenance of steady state hematopoiesis.
Nterminal Sequence Analysis	Met
Molecular Mass	18.8 kDa
Activity	Measured in a cell proliferation assay using NFS60 mouse myeloid cells. The ED50 for this effect is typically 10 60 pg/mL.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Formulation	Lyophilized from a 0.2 µm filtered solution in Acetic Acid with Trehalose. See Certificate of Analysis for details.
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 1. 12 months from date of receipt, 20 to 70 °C as supplied. 2. 3 months, 2 to 8 °C under sterile conditions after reconstitution.
UniProt ID	P09919

GENE INFORMATION

Gene Name	CSF3 colony stimulating factor 3 (granulocyte) [Homo sapiens]
Official Symbol	CSF3
Synonyms	CSF3; colony stimulating factor 3 (granulocyte); GCSF; CSF3OS; C17orf33; MGC45931; granulocyte colony-stimulating factor; granulocyte colony-stimulating factor; filgrastim; lenograstim; pluripoietin
Gene ID	1440
mRNA Refseq	NM_000759

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Protein Refseq	NP_000750
MIM	138970
Chromosome Location	17q11.2-q12
Pathway	Cytokine-cytokine receptor interaction; Cytokines and Inflammatory Response; Hematopoietic cell lineage; Jak-STAT signaling pathway
Function	cytokine activity; enzyme binding; granulocyte colony-stimulating factor receptor binding; growth factor activity

Crystal structure of 3 molecules of human G-CSF. From PDB 1rhg.

