

Active Recombinant Human CSF3 Protein, Pre-aliquoted

Cat. No. CSF3-10H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CSF3 Protein, Thr31 - Pro204, with an -N-terminal Met, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr31-Pro204, with an N-terminal Met
Description	This gene encodes a member of the IL-6 superfamily of cytokines. The encoded cytokine controls the production, differentiation, and function of granulocytes. Granulocytes are a type of white blood cell that are part of the innate immune response. A modified form of this protein is commonly administered to manage chemotherapy-induced neutropenia. Alternatively spliced transcript variants have been described for this gene.
Bio-activity	Measured in a cell proliferation assay using NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is 10-60 µg/mL.
Molecular Mass	Predicted Molecular Mass:18.8 kDa
N-terminal Sequence Analysis	Met
Endotoxin	< 0.01 EU/µg of the protein by the LAL method.

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Purity	> 97% by SDS-PAGE under reducing conditions and visualized by silver stain.
Stability	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 6 months from date of receipt at room temperature. • 12 months from date of receipt at 2-8 centigrade as supplied. • 1 month at 2-8 centigrade under sterile conditions after reconstitution. • 3 months at -20 to -80 centigrade under sterile conditions after reconstitution.
Reconstitution	For a stock solution, reconstitute at 50 µg/mL in sterile PBS, or simply roll Pre-aliquoted directly into the cell culture medium for immediate use.
Shipping	The product is shipped at ambient temperature.

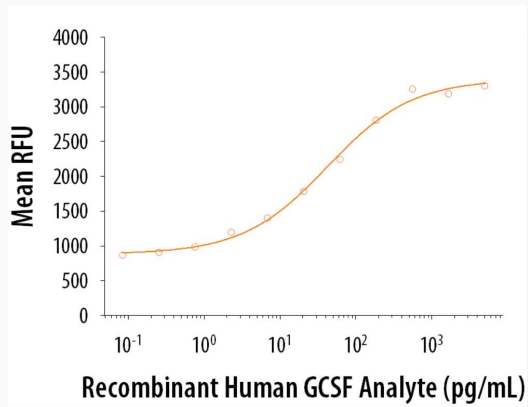
GENE INFORMATION

Gene Name	CSF3 colony stimulating factor 3 [Homo sapiens (human)]
Official Symbol	CSF3
Synonyms	CSF3; colony stimulating factor 3; GCSF; CSF3OS; C17orf33; granulocyte colony-stimulating factor; filgrastim; granulocyte-colony stimulating factor; lenograstim; pluripoietin
Gene ID	1440
mRNA Refseq	NM_000759
Protein Refseq	NP_000750
MIM	138970

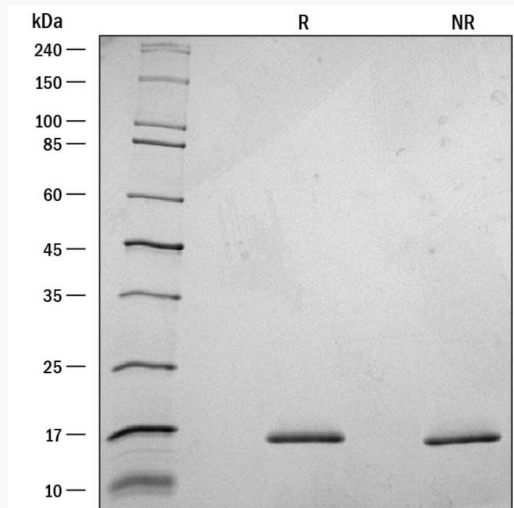
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UniProt ID
P09919
Bio-activity


Recombinant Human G-CSF stimulated cell proliferation of the NFS-60 mouse myelogenous leukemia lymphoblast cell line. The ED50 for this effect is 10-60 pg/mL.

SDS-PAGE


1 µg/lane of Recombinant Human G-CSF was resolved with SDS-PAGE under

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reducing (R) and non-reducing (NR) conditions and visualized with silver staining, showing a single band at approximately 18 kDa.

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