

Active Recombinant Human CSF3 Protein

Cat. No. CSF3-134H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Granulocyte Colony-Stimulating Factor is produced by our E. coli expression system and the target gene encoding Thr31-Pro204 is expressed.
Species	Human
Source	E.coli
ProteinLength	31-204 a.a.
Description	Human Granulocyte-Colony-Stimulating Factor (G-CSF) is 20 kD glycoprotein containing internal disulfide bonds. It induces the survival, proliferation, and differentiation of neutrophilic granulocyte precursor cells and it functionally activates mature blood neutrophils. Among the family of colony-stimulating factors, G-CSF is the most potent inducer of terminal differentiation to granulocytes and macrophages of leukemic myeloid cell lines. The synthesis of G-CSF can be induced by bacterial endotoxins, TNF, Interleukin-1, and GM-CSF. Prostaglandin E2 inhibits the synthesis of G-CSF. In epithelial, endothelial, and fibroblastic cells secretion of G-CSF is induced by Interleukin-17.
Form	Lyophilized from a 0.2 um filtered solution of 10mM HAc-NaAc, 150mM NaCl, 0.004% Tween 80, 5% Mannitol, pH 4.0.
Bio-activity	ED50 is less than 0.1 ng/ml. Specific Activity of 6.0×10^7 IU/ mg. Measured by the dose-dependent proliferation of murine NFS-60 indicator cells.

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AA Sequence	Thr31-Pro204
Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	>95%
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Statement	Purity: Greater than 95% as determined by reducing SDS-PAGE.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

GENE INFORMATION

Gene Name	CSF3 colony stimulating factor 3 [Homo sapiens (human)]
Official Symbol	CSF3
Synonyms	Granulocyte Colony-Stimulating Factor; G-CSF; Pluripoietin; Filgrastim; Lenograstim; CSF3; C17orf33; GCSF; CSF3OS
Gene ID	1440

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mRNA Refseq	NM_000759.4
Protein Refseq	NP_000750.1
MIM	138970
UniProt ID	P09919

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