

Recombinant Human CSF3, His-tagged

Cat. No. CSF3-27782TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature human G-CSF with His tag produced in the endosperm tissue of barley grain ; amino acids 31-204, 174 amino acids , 20.8 kDa.
Species	Human
ProteinLength	31-204 a.a.
Description	The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes. The active protein is found extracellularly. Alternatively spliced transcript variants have been described for this gene.
Conjugation	HIS
Biological activity	Bioactivity:Bioactivity is assayed by measuring the dose dependent effect of human G-CSF on proliferation of mouse NFS-60 cells. The ED50 is 0.08 ng/ml according to this assay. This corresponds to 1.25 x 10 ⁷ U/mg specific activity. Optimal concentration s
Form	Lyophilised:It is recommended to reconstitute the lyophilized protein in sterile phosphate-buffered saline to a concentration of no less than 100 µg/ml. For long term storage of the reconstituted solution it is recommended to add a carrier protein (0.1% H
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: PBS, pH 7.2
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the IL-6 superfamily.
Full Length	Full L.
GENE INFORMATION	
Gene Name	CSF3 colony stimulating factor 3 (granulocyte) [Homo sapiens]
Official Symbol	CSF3
Synonyms	CSF3; colony stimulating factor 3 (granulocyte); C17orf33, chromosome 17 open reading frame 33 , G CSF, GCSF; granulocyte colony-stimulating factor; filgrastim; granulocyte colony stimulating factor; lenograstim; MGC45931; pluripoietin;
Gene ID	1440
mRNA Refseq	NM_000759
Protein Refseq	NP_000750
MIM	138970
Uniprot ID	P09919
Chromosome Location	17q11.2-q12

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Pathway

Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response, organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem;

Function

cytokine activity; cytokine activity; enzyme binding; granulocyte colony-stimulating factor receptor binding; growth factor activity;

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