

## Active Recombinant Human CSF3R

**Cat. No.** CSF3R-9295H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CSF3R was expressed in CHO Cells.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Description</b>	Human Granulocyte Colony Stimulating Factor (G-CSF) contains internal disulfide bonds. Among the family of colony-stimulating factors, Granulocyte Colony Stimulating Factor (G-CSF) is the most potent inducer of terminal differentiation to granulocytes and macrophages of leukemic myeloid cell lines. The synthesis of Granulocyte Colony Stimulating Factor (G-CSF) can be induced by bacterial endotoxins, TNF, Interleukin-1 and GM-CSF. Prostaglandin E2 inhibits the synthesis of Granulocyte Colony Stimulating Factor (G-CSF). In epithelial, endothelial, and fibroblastic cells, the secretion of Granulocyte Colony Stimulating Factor (G-CSF) is induced by Interleukin-17.
<b>Form</b>	Lyophilized after extensive dialysis against PBS.
<b>Bio-activity</b>	ED50 < 0.1 ng/ml, determined by the dose-dependent stimulation of the proliferation of murine m-nfs-60 cells, corresponding to a specific activity of > 1 x 10 <sup>7</sup> units/mg.
<b>Molecular Mass</b>	18.7kDa, observed by non-reducing SDS-PAGE.
<b>AA Sequence</b>	Thr27-Pro200.

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

<b>Endotoxin</b>	<0.2 eu/μg,="" determined="" by="" lal="">
<b>Purity</b>	>95% as analyzed by SDS-PAGE and HPLC.
<b>Storage</b>	Lyophilized recombinant protein remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhG-CSF should be stable up to 1 week at 4°C or up to 2 months at -20°C.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/ml.

## GENE INFORMATION

<b>Gene Name</b>	CSF3R colony stimulating factor 3 receptor (granulocyte) [ Homo sapiens ]
<b>Official Symbol</b>	CSF3R
<b>Synonyms</b>	CSF3R; colony stimulating factor 3 receptor (granulocyte); CD114; granulocyte colony-stimulating factor receptor; GCSFR; G-CSF-R; CD114 antigen; G-CSF receptor;
<b>Gene ID</b>	1441
<b>mRNA Refseq</b>	NM_000760
<b>Protein Refseq</b>	NP_000751
<b>MIM</b>	138971
<b>UniProt ID</b>	Q99062
<b>Chromosome</b>	1p35-p34.3

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**Location****Pathway**

Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem; Pathways in cancer, organism-specific biosystem;

**Function**

cytokine receptor activity; receptor activity;

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