

## Active Recombinant Mouse Colony Stimulating Factor 3 (granulocyte), His-tagged

Cat. No. Csf3-5616M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Csf3 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Met1-Asp626.
<b>Species</b>	Mouse
<b>Source</b>	Mammalian Cells
<b>Protein Length</b>	1-626 a.a.
<b>Description</b>	Csf3 is a pleiotropic cytokine best known for its specific effects on the proliferation, differentiation, and activation of hematopoietic cells of the neutrophilic and granulocyte lineage. Csf3 plays an important role in defense against infection, in inflammation and repair, and in the maintenance of steady state hematopoiesis. Cell activation by Csf3 is mediated by granulocyte colony stimulating factor receptor alpha, a 95 105 kDa type I transmembrane protein and member of the cytokine receptor superfamily, type I cytokine receptor family, and type 2 subfamily of receptor proteins.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
<b>N-terminal Sequence</b>	Cys26
<b>Molecular Weight</b>	68.2 kDa
<b>Activity</b>	Measured by its ability to inhibit the Csf3-induced proliferation of NFS-60

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mousemyeloid cells. The ED50 for this effect is typically 0.02-0.12µg/mL in the presence of 0.125 ng/mL of recombinant mouse Csf3.

**Endotoxin Level** <1.0 EU per 1 µg of the protein by the LAL method.

**SDS-PAGE** 100-110kDa, reducing conditions

**Purity** >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

**Reconstitution** Reconstitute at 100 µg/mL in PBS

**Storage**

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## GENE INFORMATION

**Gene Name** [Csf3 colony stimulating factor3 \(granulocyte\) \[ Mus musculus \]](#)

**Official Symbol** [Csf3](#)

**Synonyms** Csf3; colony stimulating factor 3 (granulocyte); Csf3; G-CSF; MGI-IG; granulocyte colony-stimulating factor

**Gene ID** [12985](#)

**mRNA Refseq** [NM\\_009971](#)

**Protein Refseq** [NP\\_034101](#)

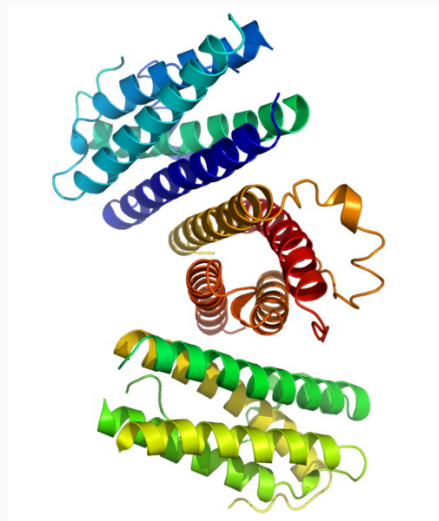
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<b>UniProt ID</b>	P09920
<b>Chromosome Location</b>	11 D; 11 57.0 cM
<b>Pathway</b>	Cytokine-cytokinereceptor interaction; Cytokines and Inflammatory Response (BioCarta); Hematopoietic cell lineage; Jak-STAT signaling pathway; Malaria
<b>Function</b>	cytokine activity; enzyme binding; growth factor activity

**Crystalstructure of 3 molecules of human G-CSF. From PDB 1rhg**



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