

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

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

SPECIFICATION

Product Overview	Recombinant Mouse Csf3 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Met1-Asp626.
Species	Mouse
Source	Mammalian Cells
Protein Length	1-626 a.a.
Description	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.
Form	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
N-terminal Sequence	Cys26
Molecular Weight	68.2 kDa
Activity	Measured by its ability to inhibit the Csf3-induced proliferation of NFS-60

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	mouse myeloid cells. The ED50 for this effect is typically 0.02-0.12 µg/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	100-110 kDa, 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 factor 3 (granulocyte) [<i>Mus musculus</i>]
Official Symbol	Csf3
Synonyms	Csf3; colony stimulating factor 3 (granulocyte); Csfg; G-CSF; MGI-IG; granulocyte colony-stimulating factor
Gene ID	12985
mRNA Refseq	NM_009971
Protein Refseq	NP_034101

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UniProt ID	P09920
Chromosome Location	11 D; 11 57.0 cM
Pathway	Cytokine-cytokinereceptor interaction; Cytokines and Inflammatory Response (BioCarta); Hematopoietic cell lineage; Jak-STAT signaling pathway; Malaria
Function	cytokine activity; enzyme binding; growth factor activity
Crystalstructure of 3 molecules of human G-CSF. From PDB 1rhg	