

Recombinant Mouse Csf3, Fc-tagged

Cat. No. Csf3-169M Lot. No. (See product label)

SPECIFICATION

Product Overview	The extracellular domain of mouse CSF3 (aa 31-208) is fused to the N-terminus of the Fc region of mouse IgG2a.
Species	Mouse
Source	CHO
ProteinLength	31-208 a.a.
Description	<p>G-CSF is a pleiotropic cytokine best known for its specific effects on the proliferation, differentiation and activation of hematopoietic cells of the neutrophilic granulocyte lineage. It is produced mainly by monocytes and macrophages upon activation by endotoxin, TNF-α and IFN-γ. Other cell types including fibroblasts, endothelial cells, astrocytes and bone marrow stromal cells can also secrete G-CSF after LPS, IL-1 or TNF-α activation. In addition, various carcinoma cell lines and myeloblastic leukemia cells can express G-CSF constitutively. G-CSF stimulates growth, differentiation and functions of cells from the neutrophil lineage in vitro. Consistent with its in vitro functions, G-CSF has been found to play important roles in defense against infection, in inflammation and repair and in the maintenance of steady state hematopoiesis. Recombinant human G-CSF has been approved for the amelioration of chemotherapy induced neutropenia as well as for severe chronic neutropenia following marrow transplant.</p>
Form	Lyophilized from 0.2 μ m-filtered solution in PBS.

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Purity	≥98% (SDS-PAGE)
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles.
GENE INFORMATION	
Gene Name	Csf3 colony stimulating factor 3 (granulocyte) [<i>Mus musculus</i>]
Official Symbol	Csf3
Synonyms	CSF3; colony stimulating factor 3 (granulocyte); granulocyte colony-stimulating factor; Csf3; G-CSF; MGI-IG;
Gene ID	12985
mRNA Refseq	NM_009971
Protein Refseq	NP_034101
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response (BioCarta), organism-specific 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;
Function	cytokine activity; enzyme binding; growth factor activity;

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