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# **Recombinant Mouse CSF-3/G-CSF Protein**

Catalog No.: RP00573 Recombinant

## Sequence Information

**Species Gene ID Swiss Prot** HEK293 cells 12985 P09920

Tags C-His

**Synonyms** 

Granulocyte colony-stimulating factor;Csf3;G-CSF

### **Product Information**

**Purification** Source HEK293 cells

> 95% by SDS-

PAGE.

#### **Endotoxin**

< 1 EU/µg of the protein by LAL method.

#### **Formulation**

Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.Contact us for customized product form or formulation.

#### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

#### Contact

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## Background

Granulocyte colony-stimulating factor (G-CSF) is a growth factor and an essential cytokine which belongs to the IL-6 superfamily. Granulocyte/macrophage colonystimulating factors are cytokines that act in hematopoiesisby controlling the production, differentiation, and function of 2 related white cell populations of the blood, thegranulocytes and the monocytes-macrophages. G-CSF binding to its receptor G-CSF-R which belongs to the cytokine receptor type I family depends on the interaction of alpha-helical motifs of the former and twofibronectin type III as well as an immunoglobulin-like domain of the latter. G-CSF is a cytokine that have beendemonstrated to improve cardiac function and perfusion in myocardial infarction. And it was initially evaluated as a stem cell mobilizer and erythropoietin as a cytoprotective agent.

### **Basic Information**

#### Description

Recombinant Mouse CSF-3/G-CSF Protein is produced by Human Cells expression system. The target protein is expressed with sequence (Met1-Ala208) of mouse G-CSF/CSF3 (Accession #P09920) fused with a 6×His tag at the C-terminus.

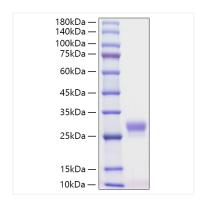
#### **Bio-Activity**

Measured in a cell proliferation assay using NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED<sub>50</sub> for this effect is 38.7-154.8 pg/mL, corresponding to a specific activity of 6.46×10<sup>6</sup>-2.58×10<sup>7</sup> units/mg.

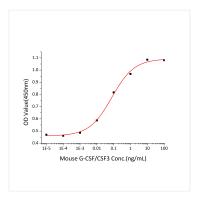
### **Storage**

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. <br/>
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After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## **Validation Data**



Recombinant Mouse G-CSF/CSF3 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue. showing a band at 25-35 kDa.



Recombinant Mouse G-CSF/CSF3 stimulates cell proliferation of the NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED $_{50}$  for this effect is 38.7-154.8 pg/mL, corresponding to a specific activity of  $6.46\times10^6$ - $2.58\times10^7$  units/mg.