



## Mouse G-CSF

2 µg  
10 µg  
100 µg

130-094-039  
130-094-040  
130-094-041

### Description:

Mouse granulocyte colony stimulating factor (G-CSF) is a 19.0 kDa protein containing 179 amino acid residues. G-CSF is a potent stimulator of bone marrow cells, especially those of the neutrophil lineage. In addition, G-CSF can enhance the survival and activate the immunological functions of mature neutrophils.

<b>Source:</b>	<i>E. coli</i>
<b>Molecular mass:</b>	19.0 kDa
<b>Specific activity:</b>	$\geq 3 \times 10^7$ U/mg
<b>Endotoxin level:</b>	<0.1 ng/µg (1 EU/µg)
<b>Purity:</b>	>98% (SDS-PAGE)
<b>Buffer:</b>	None
<b>Stabilizer:</b>	None
<b>Product format:</b>	Sterile filtered, lyophilized

### Biological activity:

The ED<sub>50</sub> as determined by dose-dependent stimulation of the proliferation of mouse M-NFS-60 cells is  $\leq 0.03$  ng/mL, corresponding to a specific activity of  $\geq 3 \times 10^7$  U/mg. The optimal concentration for each application should be determined by a dose-response experiment.

### Reconstitution:

The lyophilized Mouse G-CSF is soluble in water and most aqueous buffers and can be reconstituted in deionized sterile-filtered water to a concentration of 1 mg/mL. It is recommended that further dilutions be made into buffer containing carrier protein or medium containing serum.

### Storage:

The lyophilized powder, though stable at room temperature, is best stored desiccated below 0 °C. Reconstituted Mouse G-CSF should be stored in working aliquots at -20 °C. Avoid repeated freeze-thaw cycles.

All protocols and data sheets are available at [www.miltenyibiotec.com](http://www.miltenyibiotec.com).

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